Open Source Used In Cisco Cloud Mailbox Defense -CMD (Project Raptor) April 2021

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In your requests please include the following reference number 78EE117C99-1150891585

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**1.1 libpsl 0.19.1-5build1**

**1.1.1 Available under license:**

Format: https://www.debian.org/doc/packaging-manuals/copyright-format/1.0/

Upstream-Name: libpsl

Source: https://github.com/rockdaboot/libpsl

Files: *
Copyright: 2014-2016 Tim Ruehsen
License: MIT

Files: debian/*
Copyright: 2014-2016 Daniel Kahn Gillmor
License: MIT

Files: src/psl-make-dafsa src/lookup_string_in_fixed_set.c
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1.2 db-defaults 5.3.1

1.2.1 Available under license:

- Format-Specification: http://wiki.debian.org/Proposals/CopyrightFormat
- Upstream-Author: Clint Adams <schizo@debian.org>
- Packaged-By: Clint Adams <schizo@debian.org>
- Packaged-Date: Thu Jun 12 22:45:27 UTC 2008
- Files: debian/*
- Copyright: Copyright 2008, Clint Adams
- License: GPL-3+

The packaging scripts and files are licensed under the GNU General Public License, version 3 or later, found on your Debian system in
/usr/share/common-licenses/GPL-3

1.3 go-rootcerts 1.0.2

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package github

import (  
    "context"  
    "fmt"
)

// LicensesService handles communication with the license related  
// methods of the GitHub API.  
//  
// GitHub API docs: https://developer.github.com/v3/licenses/  
type LicensesService service

// RepositoryLicense represents the license for a repository.  
type RepositoryLicense struct {  
    Name *string `json:"name,omitempty"`  
    Path *string `json:"path,omitempty"`

    SHA      *string `json:"sha,omitempty"`  
    Size     *int    `json:"size,omitempty"`  
    URL      *string `json:"url,omitempty"`  
    HTMLURL  *string `json:"html_url,omitempty"`  
    GitURL   *string `json:"git_url,omitempty"`  
    DownloadURL *string `json:"download_url,omitempty"`  
    Type     *string `json:"type,omitempty"`  
    Content  *string `json:"content,omitempty"`  
    Encoding *string `json:"encoding,omitempty"`  
    License  *License `json:"license,omitempty"`
}

func (l RepositoryLicense) String() string {  
    return Stringify(l)
}

// License represents an open source license.  
type License struct {  
    Key   *string `json:"key,omitempy"`  
    Name  *string `json:"name,omitempy"`  
    URL   *string `json:"url,omitempy"`  

    SPDXID         *string   `json:"spdx_id,omitempy"`  
    HTMLURL        *string   `json:"html_url,omitempy"`  
    Featured       *bool     `json:"featured,omitempy"`  
    Description    *string   `json:"description,omitempy"`  
    Implementation *string   `json:"implementation,omitempy"`  
    Permissions    *[]string `json:"permissions,omitempy"`  
    Conditions     *[]string `json:"conditions,omitempy"`  
    Limitations    *[]string `json:"limitations,omitempy"`
}
Body           *string   `json:"body,omitempty"`  
}  

func (l License) String() string  
return Stringify(l)  
}  

// List popular open source licenses.  
//  
// GitHub API docs: https://developer.github.com/v3/licenses/#list-all-licenses  
func (s *LicensesService) List(ctx context.Context) ([]*License, *Response, error)  
{  
req, err := s.client.NewRequest("GET", "licenses", nil)  
if err != nil {  
return nil, nil, err  
}  

// TODO: remove custom Accept header when this API fully launches  
req.Header.Set("Accept", mediaTypeLicensesPreview)  

var licenses []*License  
resp, err := s.client.Do(ctx, req, &licenses)  
if err != nil {  
return nil, resp, err  
}  

return licenses, resp, nil  
}  

// Get extended metadata for one license.  
//  
// GitHub API docs: https://developer.github.com/v3/licenses/#get-an-individual-license  
func (s *LicensesService) Get(ctx context.Context, licenseName string) (*License, *Response, error)  
{  
u := fmt.Sprintf("licenses/%s", licenseName)  

req, err := s.client.NewRequest("GET", u, nil)  
if err != nil {  
return nil, err  
}  

// TODO: remove custom Accept header when this API fully launches  
req.Header.Set("Accept", mediaTypeLicensesPreview)  

license := new(License)  
resp, err := s.client.Do(ctx, req, license)  
if err != nil {  
return nil, resp, err  
}
return license, resp, nil
}

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1.8 httpcomponents-client 4.5.2

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1.10 picomatch 2.2.2

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1.11 boost 1.65.1+dfsg-0ubuntu5

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//
//
/////////////////////////////////////////////////////////////////////////////

#ifndef BOOST_INTRUSIVE_DETAIL_MPL_HPP
#define BOOST_INTRUSIVE_DETAIL_MPL_HPP

#ifndef BOOST_CONFIG_HPP
# include <boost/config.hpp>
#endif

#ifndef BOOST_INTRUSIVE_DETAIL_MPL_HPP
#define BOOST_INTRUSIVE_DETAIL_MPL_HPP

#ifndef BOOST_CONFIG_HPP
# include <boost/config.hpp>
#endif

# endif
#endif

#if defined(BOOST_HAS_PRAGMA_ONCE)
#  pragma once
#endif

#include <boost/intrusive/detail/config_begin.hpp>
#include <boost/move/detail/type_traits.hpp>
#include <cstddef>

namespace boost {
    namespace intrusive {
        namespace detail {
            using boost::move_detail::is_same;
            using boost::move_detail::add_const;
            using boost::move_detail::remove_const;
            using boost::move_detail::remove_cv;
            using boost::move_detail::remove_reference;
            using boost::move_detail::add_reference;
            using boost::move_detail::remove_pointer;
            using boost::move_detail::add_pointer;
            using boost::move_detail::true_type;
            using boost::move_detail::false_type;
            using boost::move_detail::enable_if_c;
            using boost::move_detail::enable_if;
            using boost::move_detail::disable_if_c;
            using boost::move_detail::disable_if;
            using boost::move_detail::is_convertible;
            using boost::move_detail::if_c;
            using boost::move_detail::if_;
            using boost::move_detail::is_const;
            using boost::move_detail::identity;
            using boost::move_detail::alignment_of;
            using boost::move_detail::is_empty;
            using boost::move_detail::addressof;
            using boost::move_detail::integral_constant;
            using boost::move_detail::enable_if_convertible;
            using boost::move_detail::disable_if_convertible;
            using boost::move_detail::bool_;
            using boost::move_detail::true_;
            using boost::move_detail::false_;
            using boost::move_detail::yes_type;
            using boost::move_detail::no_type;
            using boost::move_detail::apply;
            using boost::move_detail::eval_if_c;
            using boost::move_detail::eval_if;
            using boost::move_detail::unvoid_ref;
using boost::move_detail::add_const_if_c;

template<std::size_t S>
struct ls_zeros
{
    static const std::size_t value = (S & std::size_t(1)) ? 0 : (1 + ls_zeros<S>>1u>::value);
};

template<>
struct ls_zeros<0>
{
    static const std::size_t value = 0;
};

template<>
struct ls_zeros<1>
{
    static const std::size_t value = 0;
};

// Infrastructure for providing a default type for T::TNAME if absent.
#define BOOST_INTRUSIVE_INSTANTIATE_DEFAULT_TYPE_TMPLT(TNAME)     \
    template <typename T, typename DefaultType>                    \
    struct boost_intrusive_default_type_ ## TNAME                  \
    {                                                              \
        template <typename X>                                       \
        static char test(int, typename X::TNAME*);                  \
        \
        template <typename X>                                       \
        static int test(...);                                       \
        \
        struct DefaultWrap { typedef DefaultType TNAME; };          \
        \
        static const bool value = (1 == sizeof(test<T>(0, 0)));     \
        \
        typedef typename                                            \
            ::boost::intrusive::detail::if_c                         \
            <value, T, DefaultWrap>::type::TNAME type;            \
    };                                                             \
//

#define BOOST_INTRUSIVE_OBTAIN_TYPE_WITH_DEFAULT(INSTANTIATION_NS_PREFIX, T, TNAME, TIMPL)  \
    typename INSTANTIATION_NS_PREFIX                                                       \
        boost_intrusive_default_type_ ## TNAME< T, TIMPL >::type                            
//

#define BOOST_INTRUSIVE_INSTANTIATE_EVAL_DEFAULT_TYPE_TMPLT(TNAME)
template <typename T, typename DefaultType> struct boost_intrusive_eval_default_type_##TNAME {
    //
    template <typename X>
    static char test(int, typename X::TNAME*);
    //
    template <typename X>
    static int test(...);
    //
    struct DefaultWrap {
    typedef typename DefaultType::type TNAME; 
    }
    static const bool value = (1 == sizeof(test<T>(0, 0)));
    // typedef typename ::boost::intrusive::detail::eval_if_c
    //    < value, ::boost::intrusive::detail::identity<T>,
    //    ::boost::intrusive::detail::identity<DefaultWrap>
    //    >::type::TNAME type;
    //
    //
    #define BOOST_INTRUSIVE_OBTAIN_TYPE_WITH_EVAL_DEFAULT(INSTANTIATION_NS_PREFIX, T, TNAME, TIMPL) 
    typename INSTANTIATION_NS_PREFIX boost_intrusive_eval_default_type_##TNAME< T, TIMPL >::type 
    //
    #define BOOST_INTRUSIVE_INTERNAL_STATIC_BOOL_IS_TRUE(TRAITS_PREFIX, TYPEDEF_TO_FIND) 
    template <class T>
    struct TRAITS_PREFIX##_bool{
    template<bool Add>
    struct two_or_three {yes_type _[2 + Add];};
    template <class U> static yes_type test(...);
    template <class U> static two_or_three<U::TYPEDEF_TO_FIND> test (int);
    static const std::size_t value = sizeof(test<T>(0));
    };
    //
    template <class T>
    struct TRAITS_PREFIX##_bool_is_true{
    static const bool value = TRAITS_PREFIX##_bool<T>::value > sizeof(yes_type)*2;
    };
    //

    //

```cpp
#define BOOST_INTRUSIVE_HAS_STATIC_MEMBER_FUNC_SIGNATURE(TRAITS_NAME, FUNC_NAME) \
    template <typename U, typename Signature> \
    class TRAITS_NAME \
    { \
    private: \
    template<Signature> struct helper; \
    template<typename T> \
    static ::boost::intrusive::detail::yes_type test(helper<&T::FUNC_NAME>*); \
    template<typename T> static ::boost::intrusive::detail::no_type test(...); \
    public: \
    static const bool value = sizeof(test<U>(0)) == sizeof(::boost::intrusive::detail::yes_type); \
    }; \

//

#define BOOST_INTRUSIVE_HAS_MEMBER_FUNC_CALLED(TRAITS_NAME, FUNC_NAME) \
    template <typename Type> \
    struct TRAITS_NAME \
    { \
    struct BaseMixin \
    { \
        void FUNC_NAME(); \
    }; \
    struct Base : public Type, public BaseMixin { Base(); }; \
    template <typename T, T t> class Helper{}; \
    template <typename U> \
    static ::boost::intrusive::detail::no_type  test(U*, Helper<void (BaseMixin::*)(), &U::FUNC_NAME>* = 0); \
    static ::boost::intrusive::detail::yes_type test(...); \
    static const bool value = sizeof(::boost::intrusive::detail::yes_type) == sizeof(test((Base*)(0))); \
    }
    //

#define BOOST_INTRUSIVE_HAS_MEMBER_FUNC_CALLED_IGNORE_SIGNATURE(TRAITS_NAME, FUNC_NAME) \
    BOOST_INTRUSIVE_HAS_MEMBER_FUNC_CALLED(TRAITS_NAME##_ignore_signature, FUNC_NAME) \
    BOOST_INTRUSIVE_HAS_MEMBER_FUNC_CALLED(TRAITS_NAME##_ignore_signature, FUNC_NAME) \
    \
    template <typename Type, class> \
    struct TRAITS_NAME \
    : public TRAITS_NAME##_ignore_signature<Type> \
    {};

//namespace detail 
//namespace intrusive 
//namespace boost 

#include <boost/intrusive/detail/config_end.hpp>
```
Adapters for Boost.MPL containers. 

- **IntegralConstants**

  Adapter for IntegralConstants from the Boost.MPL. 

```cpp
#include <BoostMPL/IntegralC.hpp>
```

**Example Usage**

```cpp
using namespace boost::mpl;

int main()
{
    boost::mpl::integral_c<int, 10> ic;
    return ic.value;
}
```
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#include <boost/mpl/push_back.hpp>
#include <boost/mpl/quote.hpp>
#include <boost/mpl/transform.hpp>
#include <boost/mpl/vector.hpp>

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template <typename X>
struct f { using type = X; }; 

template <int i>
struct t { }; 

using vector = <%= mpl_vector((1..input_size).to_a.map { |n| "t<#{n}>") %}>;
using result = boost::mpl::transform<vector, boost::mpl::quote1<f>>::type;

text = int main() {} Use of this software is granted under one of the following two licenses, to be chosen freely by the user.

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]

[section:mpl MPL Interoperability]

All the value based traits in this library conform to MPL’s requirements
for an [../../../../libs/mpl/doc/refmanual/integral-constant.html Integral Constant type].

Please note that these types no longer inherit from `mpl::true_` or `mpl::false_` etc, and the library
will no longer implicitly include any MPL header. However there is an implicit conversion from
`integral_constant` to the corresponding MPL types, therefore tag-dispatching that uses MPL types
in function overloads will still work as before.

[endsect]
[article Invalid copyright years
[quickbook 1.5]
[copyright 2010-2001 Timequake man]
]
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<head>
<meta http-equiv="Content-Type" content="text/html; charset=US-ASCII">
<title>MPL Interoperability</title>
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<meta name="generator" content="DocBook XSL Stylesheets V1.79.1">
<link rel="home" href="../index.html" title="Chapter 1. Boost.TypeTraits">
<link rel="prev" href="intrinsics.html" title="Support for Compiler Intrinsics">
<link rel="up" href="../index.html" title="Chapter 160: Boost.TypeTraits">
<link rel="next" href="examples.html" title="Examples">
</head>
<body bgcolor="white" text="black" link="#0000FF" vlink="#840084" alink="#0000FF">
<table cellpadding="2" width="100%">
<tr><td valign="top"><img alt="Boost C++ Libraries" width="277" height="86" src="../../../../boost.png"></td>
<td align="center"><a href="../../../../index.html">Home</a></td>
<td align="center"><a href="../../../../libs/libraries.htm">Libraries</a></td>
<td align="center"><a href="http://www.boost.org/users/people.html">People</a></td>
<td align="center"><a href="http://www.boost.org/users/faq.html">FAQ</a></td>
</tr>
</table>
</body>
The value-based traits in this library conform to MPL's requirements for an \texttt{Integral Constant} type. Please note that these types no longer inherit from \texttt{mpl::true_} or \texttt{mpl::false_} etc, and the library will no longer implicitly include any MPL header. However there is an implicit conversion from \texttt{mpl::integral_constant} to the corresponding MPL types, therefore tag-dispatching that uses MPL types in function overloads will still work as before.
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```cpp
#include <boost/mpl/push_back.hpp>
#include <boost/mpl/vector.hpp>

template <int i>
struct t [ ];

using vector = <%= mpl_vector((1..input_size).to_a.map { |n| "t<#{n}>

int main() { }

//////////////////////////////////////////////////////////////////////////////
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#ifndef BOOST_INTERPROCESS_DETAIL_MPL_HPP
#define BOOST_INTERPROCESS_DETAIL_MPL_HPP

#ifndef BOOST_CONFIG_HPP
#  include <boost/config.hpp>
#endif
#
#if defined(BOOST_HAS_PRAGMA_ONCE)
#  pragma once
#endif

#ifndef BOOST_INTERPROCESS_DETAIL_MPL_HPP
#define BOOST_INTERPROCESS_DETAIL_MPL_HPP

#ifndef BOOST_CONFIG_HPP
#  include <boost/config.hpp>
#endif
#
#if defined(BOOST_HAS_PRAGMA_ONCE)
#  pragma once
#endif
```


```cpp
#include <cstdint>

namespace boost {
namespace interprocess {
namespace ipcdetail {

template <class T, T val>
struct integral_constant {
    static const T value = val;
    typedef integral_constant<T,val> type;
};

template< bool C_ >
struct bool_ : integral_constant<bool, C_> {
    static const bool value = C_;}
};

typedef bool_<true>        true_;
typedef bool_<false>       false_;

typedef true_  true_type;
typedef false_ false_type;

typedef char yes_type;
struct no_type {
    char padding[8];
};

template <bool B, class T = void>
struct enable_if_c {
    typedef T type;
};

template <class T>
struct enable_if_c<false, T> { }; 

template <class Cond, class T = void>
struct enable_if : public enable_if_c<Cond::value, T> { }; 

template <class Cond, class T = void>
struct disable_if : public enable_if_c<!Cond::value, T> { }; 

template<
    bool C
, typename T1
```
struct if_c
{
    typedef T1 type;
};

template<
    typename T1
    , typename T2
> struct if_c<false,T1,T2>
{
    typedef T2 type;
};

template<
    typename T1
    , typename T2
    , typename T3
> struct if_
{
    typedef typename if_c<0 != T1::value, T2, T3>::type type;
};

template<std::size_t S>
struct ls_zeros
{
    static const std::size_t value = (S & std::size_t(1)) ? 0 : (1u + ls_zeros<(S >> 1u)>::value);
};

template<> struct ls_zeros<0>
{
    static const std::size_t value = 0;
};

template<> struct ls_zeros<1>
{
    static const std::size_t value = 0;
};
from subprocess import check_output as run
from datetime import datetime
from itertools import groupby
from operator import itemgetter

import re
import magic

def authors(filename):
    log = run(['git', 'log', '--follow', '--date=short', '--format=%aN%x09%ad', filename], universal_newlines=True)
    for line in log.splitlines():
        author, date = line.split('	')
        if author != 'fix-copyright.py':
            yield author, datetime.strptime(date, '%Y-%m-%d')

def new_copyright(filename, previous):
    def f():
        au = list(authors(filename))
        alldates = map(itemgetter(1), au)
        aup = sorted(au + map(lambda a: (a, None), previous), key=itemgetter(0))
        for author, records in groupby(aup, itemgetter(0)):
            dates = filter(None, map(itemgetter(1), records))
            if not dates: dates = alldates
            start = min(dates)
            end = max(dates)
            fmt = '{0}' if start.year == end.year else '{0}-{1}'
            line = 'Copyright ' + fmt.format(start.year, end.year) + ' ' + author
            key = (start, author)
            yield key, line
        return map(itemgetter(1), sorted(f()))

def fix_copyright(filename):
    # Find copyright block in original file
    prefix = set()
    names = []
    lines = []
    with open(filename, 'r') as f:
        content = list(f)
        for i, line in enumerate(content[:15]):
            m = re.match(r'^\W*\(c\)?\s?copyright\s*\((c)\)?\s*\d{4}\s*%s' % prefix, line, re.IGNORECASE)
            if m:
                d = m.groupdict()
                prefix.add(d['prefix'])
lines.append(i)
names.append(d['name'].strip())
if len(prefix) != 1:
    print 'Not found:', filename
    return
prefix = list(prefix)[0]

print filename
new = iter(new_copyright(filename, names))
with open(filename, 'w') as f:
    for i, line in enumerate(content):
        if i in lines:
            for repl in new:
                print >>f, prefix + repl
        else:
            print >>f, line,
pass

def all_files():
    ls = run(['git', 'ls-files'], universal_newlines=True)
    for filename in ls.splitlines():
        if magic.from_file(filename, mime=True).split('/')[0] == 'text':
            yield filename

for f in all_files():
    fix_copyright(f)
[article Invalid copyright
[quickbook 1.5]
[copyright No year]
]

Maybe this should pass?
<?xml version="1.0" encoding="utf-8"?>

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<section id="date_time.license">
<title>Boost Date-Time Library License</title>
<bridgehead renderas="sect2">Boost Date-Time Library License</bridgehead>
<!--[!--
 <ulink url="../..//index.htm">
  <imagedata align="left"
   format="GIF"
   fileref="../..//boost.png"
   alt="C++ Boost" />
</ulink>
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This is an attempt to acknowledge early contributions to the garbage collector. Later contributions should instead be mentioned in README.changes.

HISTORY -

Early versions of this collector were developed as a part of research projects supported in part by the National Science Foundation and the Defense Advance Research Projects Agency.

The garbage collector originated as part of the run-time system for the Russell programming language implementation. The first version of the garbage collector was written primarily by Al Demers. It was then refined and mostly rewritten, primarily by Hans-J. Boehm, at Cornell U., the University of Washington, Rice University (where it was first used for C and assembly code), Xerox PARC, SGI, and HP Labs. However, significant contributions have also been made by many others.

Some other contributors:

More recent contributors are mentioned in the modification history in README.changes. My apologies for any omissions.

The SPARC specific code was originally contributed by Mark Weiser.
The Encore Multimax modifications were supplied by
Kevin Kenny (kenny@m.cs.uiuc.edu). The adaptation to the IBM PC/RT is largely
due to Vernon Lee, on machines made available to Rice by IBM.

Much of the HP specific code and a number of good suggestions for improving the
generic code are due to Walter Underwood.

Robert Brazile (brazile@diamond.bbn.com) originally supplied the ULTRIX code.
Al Dosser (dosser@src.dec.com) and Regis Cridlig (Regis.Cridlig@cl.cam.ac.uk)
subsequently provided updates and information on variation between ULTRIX
systems. Parag Patel (parag@netcom.com) supplied the A/UX code.

Jesper Peterson(jep@mtiame.mtia.oz.au), Michel Schinz, and
Martin Tauchmann (martintauchmann@bigfoot.com) supplied the Amiga port.

Thomas Funke (thf@zelator.in-berlin.de(?)) and
Brian D.Carlstrom (bdc@clark.lcs.mit.edu) supplied the NeXT ports.

Douglas Steel (doug@wg.icl.co.uk) provided ICL DRS6000 code.

Bill Janssen (janssen@parc.xerox.com) supplied the SunOS dynamic loader
specific code. Manuel Serrano (serrano@cornas.inria.fr) supplied linux and
Sony News specific code. Al Dosser provided Alpha/OSF/1 code. He and
Dave Detlefs(detlefs@src.dec.com) also provided several generic bug fixes.

Alistair G. Crooks(agc@uts.amdahl.com) supplied the NetBSD and 386BSD ports.

Jeffrey Hsu (hsu@soda.berkeley.edu) provided the FreeBSD port.

Brent Benson (brent@jade.ssd.csd.harris.com) ported the collector to
a Motorola 88K processor running CX/UX (Harris NightHawk).

Ari Huttunen (Ari.Huttunen@hut.fi) generalized the OS/2 port to
nonIBM development environments (a nontrivial task).

Patrick Beard (beard@cs.ucdavis.edu) provided the initial MacOS port.

David Chase, then at Olivetti Research, suggested several improvements.

Scott Schwartz (schwartz@groucho.cse.psu.edu) supplied some of the
code to save and print call stacks for leak detection on a SPARC.

Jesse Hull and John Ellis supplied the C++ interface code.

Zhong Shao performed much of the experimentation that led to the
current typed allocation facility. (His dynamic type inference code hasn’t
made it into the released version of the collector, yet.)

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Andrew Lumsdaine ()
Anthony Williams (anthony -at- justsoftwaresolutions.co.uk)
Beman Dawes (bdawes@acm.org)
Brad King (brad.king -at- kitware.com) (See Boost list message of Wed, 21 Jul 2004 11:15:46 -0400)
Brian Osman (osman -at- vvisions.com) (See CVS log)
Bruce Barr (schmoost -at- yahoo.com) (See Boost list of Mon, 16 Aug 2004 15:06:43 -0500)
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Cromwell D Enage (sponage -at- yahoo.com) (See Boost list message of August 12, 2004 11:49:13 AM EST)
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Daniel Nuffer (dan -at- nuffer.name)
Darren Adler (darin -at- bentspoon.com) (Email to Andreas Huber, see change log)
Daryle Walker (darylew - at - hotmail.com)
Dave Abrahams (dave@boost-consulting.com)
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//
//
/legal
define BOOST_CONTAINER_CONTAINER_DETAIL_MPL_HPP

#ifndef BOOST_CONFIG_HPP

#include <boost/config.hpp>
#endif

#if defined(BOOST_HAS_PRAGMA_ONCE)

#pragma once
#endif

#include <boost/container/detail/config_begin.hpp>
#include <boost/container/detail/workaround.hpp>
#include <boost/move/detail/type_traits.hpp>
#include <cstddef>

namespace boost {
namespace container {
namespace container_detail {

using boost::move_detail::integral_constant;
using boost::move_detail::true_type;
using boost::move_detail::false_type;
using boost::move_detail::enable_if_c;
using boost::move_detail::enable_if;
using boost::move_detail::enable_if_convertible;
using boost::move_detail::disable_if_c;
using boost::move_detail::disable_if;
using boost::move_detail::disable_if_convertible;
using boost::move_detail::is_convertible;
using boost::move_detail::if_c;
using boost::move_detail::if_;
using boost::move_detail::identity;
using boost::move_detail::bool_;
using boost::move_detail::true_;
using boost::move_detail::false_;
using boost::move_detail::yes_type;
using boost::move_detail::no_type;
using boost::move_detail::bool_;
using boost::move_detail::true_;
using boost::move_detail::false_;
using boost::move_detail::unvoid_ref;
using boost::move_detail::and_;
using boost::move_detail::or_;
using boost::move_detail::not_;
using boost::move_detail::enable_if_and;
using boost::move_detail::disable_if_and;
using boost::move_detail::enable_if_or;
using boost::move_detail::disable_if_or;

template <class FirstType>
struct select1st
{
    typedef FirstType type;

    template<class T>
    const type& operator()(const T& x) const
    {  return x.first;   }

    template<class T>
    type& operator()(T& x)
    {  return const_cast<type&>(x.first);   }
};

}  //namespace container_detail {
}  //namespace container {
}  //namespace boost {

#include <boost/container/detail/config_end.hpp>

#endif   //#ifndef BOOST_CONTAINER_CONTAINER_DETAIL_MPL_HPP

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#include <boost/mpl/fold.hpp>
#include <boost/mpl/push_back.hpp>
#include <boost/mpl/quote.hpp>
#include <boost/mpl/vector.hpp>

template <typename State, typename X>
struct f { using type = X; };
struct state { };

template <int i>
struct t { };

using vector = mpl_vector((1..input_size).to_a.map { |n| "t<#{n}>" }) %>

using result = boost::mpl::fold<vector, state, boost::mpl::quote2<f>>::type;

int main() { }

============================================================================
Boost.Geometry (aka GGL, Generic Geometry Library)

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=============================================================================/
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 *
 */

#include "licence_info.hpp"
#include "bcp_imp.hpp"
#include "fileview.hpp"
#include <fstream>
#include <iomanip>
#include <cstring>
#include <stdexcept>
#include <boost/lexical_cast.hpp>
#include <boost/filesystem/operations.hpp>
#include <boost/throw_exception.hpp>

//
// split_path is a small helper for outputting a path name,
// complete with a link to that path:
//
struct split_path
{
const fs::path& root;
const fs::path& file;

split_path(const fs::path& r, const fs::path& f) :
   root(r), file(f) {}
private:
   split_path& operator=(const split_path&);
};

std::ostream& operator << (std::ostream& os, const split_path& p)
{
   os << "<a href="" << (p.root / p.file).string() << "]"" << p.file.string() << "</a>";
   return os;
}

std::string make_link_target(const std::string& s)
{
   // convert an arbitrary string into something suitable
   // for an <a> name:
   std::string result;
   for(unsigned i = 0; i < s.size(); ++i)
   {
      result.append(1, static_cast<std::string::value_type>(std::isalnum(s[i]) ? s[i] : '_'));
   }
   return result;
}

void bcp_implementation::output_license_info()
{
   std::pair<const license_info*, int> licenses = get_licenses();

   std::map<int, license_data>::const_iterator i, j;
   i = m_license_data.begin();
   j = m_license_data.end();

   std::ofstream os(m_dest_path.string().c_str());
   if(!os)
   {
      std::string msg("Error opening ");
      msg += m_dest_path.string();
      msg += " for output.");
      std::runtime_error e(msg);
      boost::throw_exception(e);
   }
   os <<
      "<!DOCTYPE HTML PUBLIC "/-//W3C//DTD HTML 4.0 Transitional//EN"\n      "<html>
      "<head>
      "<body>
      "<table>
      "<tr>
      "<td>
      "<th>
      "<p>
      "<span>
      "<a href="" << (p.root / p.file).string() << "]"" << p.file.string() << "</a>";
      return os;
}

std::string make_link_target(const std::string& s)
{
   // convert an arbitrary string into something suitable
   // for an <a> name:
   std::string result;
   for(unsigned i = 0; i < s.size(); ++i)
   {
      result.append(1, static_cast<std::string::value_type>(std::isalnum(s[i]) ? s[i] : '_'));
   }
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   if(!os)
   {
      std::string msg("Error opening ");
      msg += m_dest_path.string();
      msg += " for output.");
      std::runtime_error e(msg);
      boost::throw_exception(e);
   }
   os <<
      "<!DOCTYPE HTML PUBLIC "/-//W3C//DTD HTML 4.0 Transitional//EN"\n      "<html>
      "<head>
      "<body>
      "<table>
      "<tr>
      "<td>
      "<th>
      "<p>
      "<span>
      "<a href="" << (p.root / p.file).string() << "]"" << p.file.string() << "</a>";
      return os;
}
"<title>Boost Licence Dependency Information</title>
if(m_module_list.size() == 1)
{
  os << " for " << *(m_module_list.begin());
}

os <<
"</title>
"</head>
"</body>
"<H1>Boost Licence Dependency Information</H1>
if(m_module_list.size() == 1)
{
  os << " for " << *(m_module_list.begin());
}

os <<
"</H1>
"<H2>Contents</h2>
"<pre><a href="#input">Input Information</a>
if(!m_bsl_summary_mode)
  os << "<a href="#summary">Licence Summary</a>
os << "<a href="#details">Licence Details</a>
while(i != j)
{
  // title:
  os << "<A href="#" << make_link_target(licenses.first[i->first].license_name) << ">
  """ << licenses.first[i->first].license_name << "</a>
++i;
}

os << "<a href="#files">Files with no recognised license</a>
"<a href="#authors">Files with no recognised copyright holder</a>
if(!m_bsl_summary_mode)
{
  os <<
    "Moving to the Boost Software License...
    "<a href="#bsl-converted">Files that can be automatically converted to the Boost Software License</a>
    "<a href="#to-bsl">Files that can be manually converted to the Boost Software License</a>
    "<a href="#not-to-bsl">Files that can NOT be moved to the Boost Software License</a>
    "<a href="#need-bsl-authors">Authors we need to move to the Boost Software License</a>
    "<a href="#copyright">Copyright Holder Information</a>
}

os <<
"<a href="#depend">File Dependency Information</a>
"</pre>"
os << "Input Information\n";
if(m_scan_mode)
    os << "The following files were scanned for boost dependencies:\n";
else
    os << "The following Boost modules were checked:\n";

std::list<std::string>::const_iterator si = m_module_list.begin();
std::list<std::string>::const_iterator sj = m_module_list.end();
while(si != sj)
{
    os << *si << "\n";
    ++si;
}
os << "The Boost path was: \n" << m_boost_path.string() << "\n";

// extract the boost version number from the boost directory tree,
// not from this app (which may have been built from a previous
// version):

fileview version_file(m_boost_path / "boost/version.hpp");
static const boost::regex version_regex(
    "^\[[[:blank:]]*[[:blank:]]*define\[[[:blank:]]+BOOST\_VERSION\[[[:blank:]]+\(\d+\)\]";
boost::cmatch what;
if(boost::regex_search(version_file.begin(), version_file.end(), what, version_regex))
{
    int version = boost::lexical_cast<int>(what.str(1));
    os << "The Boost version is: \n" << version / 100000 << "." << version / 100 % 1000 << "." << version % 100 << "\n";
}

// output each license:

i = m_license_data.begin();
j = m_license_data.end();
if(!m_bsl_summary_mode)
{
    // start with the summary:

    os << "Licence Summary\n";
    while(i != j)
    {
        // title:
        os << "\n";
        // license text:
Copyright holders:

This license is used by the following copyright holders:

- Authors:
  - See details

Files using this license:

- See details

// and now the details:

// title:

This license is used by the following copyright holders:

- Authors:
  - See details

Files using this license:

- See details

// Copyright holders:

This license is used by the following copyright holders:

- Authors:
  - See details

Files using this license:

- See details
void OutputLicenseInfo(std::ofstream& os)
{
    // Output list of files not found to be under license control:
    //
    os << "<h2><a name="files"></a>Files With No Recognisable Licence</h2><p>
    "<P>The following " << m_unknown_licenses.size() << " files had no recognisable license information:" << m_boost_path << "<p>
    std::set<fs::path, path_less>::const_iterator i2, j2;
    i2 = m_unknown_licenses.begin();
    j2 = m_unknown_licenses.end();
    while(i2 != j2)
    {
        os << split_path(m_boost_path, *i2) << "<br">
        ++i2;
    }
    os << "</p></BLOCKQUOTE>";
// Output list of files with no found copyright holder:
//
    os << "<h2><a name="authors"></a>Files With No Recognisable Copyright Holder</h2><p>
    "<P>The following " << m_unknown_authors.size() << " files had no recognisable copyright holder:" << m_boost_path << "<p>
    m_unknown_authors.size() << " files had no recognisable copyright holder:" << m_boost_path << "<p>
    m_unknown_authors.end();
    while(i2 != j2)
    {
        os << split_path(m_boost_path, *i2) << "<br">
        ++i2;
    }
    os << "</p></BLOCKQUOTE>";
    if(!m_bsl_summary_mode)
    {
        // Output list of files that have been moved over to the Boost
        // Software License, along with enough information for human
        // verification.
        //
        os << "<h2><a name="bsl-converted"></a>Files that can be automatically converted to the Boost Software
License</h2>

The following " << m_converted_to_bsl.size() << " files can be automatically converted to the Boost Software License, but require manual verification before they can be committed to CVS:</P>

if (!m_converted_to_bsl.empty())
{
    typedef std::map<fs::path, std::pair<std::string, std::string>, path_less>
::const_iterator conv_iterator;
    conv_iterator i = m_converted_to_bsl.begin(),
    ie = m_converted_to_bsl.end();
    int file_num = 1;
    while (i != ie)
    {
        os << "<P>
[P]<tt>" split_path(m_boost_path, i->first)
" File: <tt>" split_path(m_boost_path, i->first)
" " split_path(m_boost_path, i->first)
" 
" i->second.first << "</pre></td><tr><td><pre>
" i->second.second << "</pre></td><tr><tr>
";
        ++i;
        ++file_num;
    }
}

// Output list of files that could be moved over to the Boost Software License

//

os << "<h2><a name="to-bsl"></a>Files that could be converted to the Boost Software License</h2>

"<P>The following " << m_can_migrate_to_bsl.size() << " files could be manually converted to the Boost Software License, but have not yet been:</P>

<BLOCKQUOTE><P>

i2 = m_can_migrate_to_bsl.begin();
j2 = m_can_migrate_to_bsl.end();
while(i2 != j2)
{
    os << split_path(m_boost_path, *i2) << "<br>
    ++i2;
}

os << "</p></BLOCKQUOTE>";

// Output list of files that can not be moved over to the Boost Software License

//

os << "<h2><a name="not-to-bsl"></a>Files that can NOT be converted to the Boost Software License</h2>

"<P>The following " << m_cannot_migrate_to_bsl.size() << " files cannot be converted to the Boost Software License because we need the permission of more authors:</P>

i2 = m_cannot_migrate_to_bsl.begin();
j2 = m_cannot_migrate_to_bsl.end();
while(i2 != j2)
{
    os << split_path(m_boost_path, *i2) << "<br>
    ++i2;
}
// Output list of authors that we need permission for to move to the BSL
//
os << "<h2><a name="need-bsl-authors"></a>Authors we need for the BSL</h2><p>
Permission of the following authors is needed before we can convert to the Boost Software License. The list of authors that have given their permission is contained in <code>more/blanket-permission.txt</code>.

std::copy(m_authors_for_bsl_migration.begin(), m_authors_for_bsl_migration.end(),
    std::ostream_iterator<std::string>(os, "<br>
"));

// output a table of copyright information:
//
os << "<H2><a name="copyright"></a>Copyright Holder Information</h2><table border="1""n"; 
std::map<std::string, std::set<fs::path, path_less> >::const_iterator ad, ead;
ad = m_author_data.begin();
ead = m_author_data.end();
while(ad != ead)
{
    os << "<tr><td>" << ad->first << "</td><td>
    std::set<fs::path, path_less>::const_iterator fi, efi;
    fi = ad->second.begin();
    efi = ad->second.end();
    while(fi != efi)
    {
        os << split_path(m_boost_path, *fi) << " ";
        ++fi;
    }
    os << "</td><tr></tr>
    ++ad;
}
    os << "</table>"n";
}

// output file dependency information:
//
os << "<H2><a name="depend"></a>File Dependency Information</h2><p>
std::map<fs::path, fs::path, path_less>::const_iterator dep, last_dep;
std::set<fs::path, path_less>::const_iterator fi, efi;
fi = m_copy_paths.begin();
efi = m_copy_paths.end();
if in summary mode, just figure out the "bad" files and print those only:
std::set<fs::path, path_less> bad_paths;
bad_paths.insert(m_unknown_licenses.begin(), m_unknown_licenses.end());
bad_paths.insert(m_unknown_authors.begin(), m_unknown_authors.end());
bad_paths.insert(m_can_migrate_to_bsl.begin(), m_can_migrate_to_bsl.end());
bad_paths.insert(m_cannot_migrate_to_bsl.begin(), m_cannot_migrate_to_bsl.end());
typedef std::map<fs::path, std::pair<std::string, std::string>, path_less> ::const_iterator conv_iterator;
conv_iterator i = m_converted_to_bsl.begin(),
    ie = m_converted_to_bsl.end();
while(i != ie)
{
    bad_paths.insert(i->first);
    ++i;
}
fi = bad_paths.begin();
efi = bad_paths.end();
os << "<P>For brevity, only files not under the BSL are shown</P>\n";
while(fi != efi)
{
    os << split_path(m_boost_path, *fi);
    dep = m_dependencies.find(*fi);
    last_dep = m_dependencies.end();
    std::set<fs::path, path_less> seen_deps;
    if (dep != last_dep)
    {
        while(true)
        {
            os << " -> ";
            if(fs::exists(m_boost_path / dep->second))
                os << split_path(m_boost_path, dep->second);
            else if(fs::exists(dep->second))
                os << split_path(fs::path(), dep->second);
            else
                os << dep->second.string();
            if(seen_deps.find(dep->second) != seen_deps.end())
            {
                os << " <I>(Circular dependency!)</I>";
                break; // circular dependency!!!
            }
            seen_deps.insert(dep->second);
            last_dep = dep;
            dep = m_dependencies.find(dep->second);
            if((dep == m_dependencies.end()) || (0 == compare_paths(dep->second, last_dep->second)))
                break;
        }
    }
    os << "\n";
    ++fi;
}
os << "</pre></BLOCKQUOTE>\n";
1.12 file 5.30 1+deb9u3

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1.13 dpkg-sig 0.13.1+nmu4

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Upstream web site used to be <http://dpkg-sig.turmzimmer.net/>.

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It is politely asked (but not legally required) that changes of this code are
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1.14 pycurl 7.19.0-19.amzn2.0.2

1.14.1 Available under license:
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Version 2.1, February 1999

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```c
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September 27, 2012

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Julian Seward, jseward@bzip.org
bzzip2/libbzzip2 version 1.0.6 of 6 September 2010

--------------------------------------------------------------------------

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abstract: 'Build and install Perl modules'
author:
- 'Ken Williams <kwilliams@cpan.org>
- "Development questions, bug reports, and patches should be sent to the Module-Build mailing list at <module-build@perl.org>.

buildRequires:
File::Temp: 0.15
Test::Harness: 3.16
Test::More: 0.49
generated_by: 'Module::Build version 0.3608'
license: gpl
meta-spec:
  url: http://module-build.sourceforge.net/META-spec-v1.4.html
  version: 1.4
name: Module-Build
resources:
  MailingList: mailto:module-build@perl.org
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  version: 3

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free software which everyone can redistribute and change under these
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attach them to the start of each source file to most effectively convey
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<one line to give the program’s name and a brief idea of what it does.>
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Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the
appropriate parts of the General Public License. Of course, the
commands you use may be called something other than `show w' and `show
c'; they could even be mouse-clicks or menu items--whatever suits your
program.

You should also get your employer (if you work as a programmer) or your
school, if any, to sign a "copyright disclaimer" for the program, if
necessary. Here a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the
program `Gnomovision' (a program to direct compilers to make passes
at assemblers) written by James Hacker.

<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

That's all there is to it!
#!/perl

=head1 NAME

copyright.t

=head1 DESCRIPTION

Tests that the latest copyright years in the top-level README file and the
C<perl -v> output match each other.

If the test fails, update at least one of README and perl.c so that they match
reality.

Optionally you can pass the C<--now> option to check they are at the current
year. This isn't checked by default, so that it doesn't fail for people
working on older releases. It should be run before making a new release.

=cut

use TestInit;
use strict;
use Config;
BEGIN { require 'test.pl' }

if ( $Config{usecrosscompile} ) {
    skip_all( "Not all files are available during cross-compilation" );
}

my ($opt) = @ARGV;

my $readme_year = readme_year();
my $v_year = v_year();

# Check that both copyright dates are up-to-date, but only if requested, so
# that tests still pass for people intentionally working on older versions:
if ($opt eq '--now') {
    my $current_year = (gmtime)[5] + 1900;
    is $v_year, $current_year, 'perl -v copyright includes current year';
    is $readme_year, $current_year, 'README copyright includes current year';
}

# Otherwise simply check that the two copyright dates match each other:
else {
    is $readme_year, $v_year, 'README and perl -v copyright dates match';
}

done_testing;

sub readme_year
# returns the latest copyright year from the top-level README file
{
    open my $readme, '<', '../README' or die "Opening README failed: $!";

    # The copyright message is the first paragraph:
    local $/ = 
    my $copyright_msg = <$readme>
    or die "Year not found in README copyright message '$copyright_msg'";

    my ($year) = $copyright_msg =~ /.*(\d{4,})/s
    or die "Year not found in README copyright message 'copyright_msg'";

    $year;
}

sub v_year
# returns the latest copyright year shown in perl -v
{

my $output = runperl switches => ['-v'];
my ($year) = $output =~ /copyright 1987.*\b\d\{4,\}/i
  or die "Copyright statement not found in perl -v output $output'';

$year;

1.18 amazon-linux-extras 1.6.12-1.amzn2
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1.19 loader-utils 1.2.3
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1.20 typed-styles 0.0.7
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1.21 backoff 2.2.1+incompatible

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1.22 strip-ansi 4.0.0

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pnm2png / png2pnm --- conversion from PBM/PGM/PPM-file to PNG-file

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4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy
from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also compile or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference
directing the user to the copy of this License. Also, you must do one of these things:

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

c) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

d) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:
a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.

b) Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

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<signature of Ty Coon>, 1 April 1990
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1.27 libnl3 3.2.29
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The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

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A "library" means a collection of software functions and/or data
prepared so as to be conveniently linked with application programs
(which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work
which has been distributed under these terms. A "work based on the
Library" means either the Library or any derivative work under
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making modifications to it. For a library, complete source code means
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covered by this License; they are outside its scope. The act of
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and what the program that uses the Library does.

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of it, thus forming a work based on the Library, and copy and
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b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

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3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2,
instead of to this License. (If a newer version than version 2 of the
ordinary GNU General Public License has appeared, then you can specify
that version instead if you wish.) Do not make any other change in
these notices.

Once this change is made in a given copy, it is irreversible for
that copy, so the ordinary GNU General Public License applies to all
subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of
the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or
derivative of it, under Section 2) in object code or executable form
under the terms of Sections 1 and 2 above provided that you accompany
it with the complete corresponding machine-readable source code, which
must be distributed under the terms of Sections 1 and 2 above on a
medium customarily used for software interchange.

If distribution of object code is made by offering access to copy
from a designated place, then offering equivalent access to copy the
source code from the same place satisfies the requirement to
distribute the source code, even though third parties are not
compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the
Library, but is designed to work with the Library by being compiled or
linked with it, is called a "work that uses the Library". Such a
work, in isolation, is not a derivative work of the Library, and
therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library
creates an executable that is a derivative of the Library (because it
contains portions of the Library), rather than a "work that uses the
library". The executable is therefore covered by this License.
Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file
that is part of the Library, the object code for the work may be a
derivative work of the Library even though the source code is not.
Whether this is true is especially significant if the work can be
linked without the Library, or if the work is itself a library. The
threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data
structure layouts and accessors, and small macros and small inline
functions (ten lines or less in length), then the use of the object
file is unrestricted, regardless of whether it is legally a derivative
work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.
d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

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For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

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The packaging is based on Michael Biebl's <biebl@teco.edu> original packaging
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lib/netfilter/queue_msg_obj.c
lib/netfilter/queue_msg.c
lib/netfilter/queue.c
lib/netfilter/netfilter.c
lib/netfilter/queue_obj.c
include/netlink/netfilter/netfilter.h
include/netlink/netfilter/queue.h
src/nf-queue.c

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include/netlink/xfrm/sa.h
include/netlink/xfrm/ae.h
include/netlink/xfrm/sp.h
include/netlink/xfrm/template.h
include/netlink/xfrm/lifetime.h
lib/xfrm/sa.c
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include/netlink/xfrm/sp.h
include/netlink/xfrm/template.h
include/netlink/xfrm/lifetime.h
lib/xfrm/sa.c
lib/xfrm/template.c
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1.48 d3-polygon 1.0.6

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1.49 python 2.1.0

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Here is a road map to the files in the IJK JPEG distribution. The distribution includes the JPEG library proper, plus two application programs ("cjpeg" and "djpeg") which use the library to convert JPEG files to and from some other popular image formats. A third application "jpegtran" uses the library to do lossless conversion between different variants of JPEG. There are also two stand-alone applications, "rdjpgcom" and "wrjpgcom".

THE JPEG LIBRARY

Include files:

jpeglib.h JPEG library's exported data and function declarations.
jconfig.h Configuration declarations. Note: this file is not present in the distribution; it is generated during installation.
jmorecfg.h Additional configuration declarations; need not be changed for a standard installation.
jeror.h Declares JPEG library's error and trace message codes.
jinclude.h Central include file used by all IJK .c files to reference system include files.
jpegin.h JPEG library's internal data structures.
jdct.h Private declarations for forward & reverse DCT subsystems.
jmemsys.h Private declarations for memory management subsystem.
jversion.h Version information.

Applications using the library should include jpeglib.h (which in turn includes jconfig.h and jmorecfg.h). Optionally, jerror.h may be included if the application needs to reference individual JPEG error codes. The other include files are intended for internal use and would not normally be included by an application program. (cjpeg/djpeg/etc do use jinclude.h, since its function is to improve portability of the whole IJK distribution. Most other applications will directly include the system include files they want, and hence won't need jinclude.h.)

C source code files:
These files contain most of the functions intended to be called directly by an application program:

jcapimin.c Application program interface: core routines for compression.
jcapistd.c Application program interface: standard compression.
jdapistd.c Application program interface: core routines for decompression.
jdapistd.c Application program interface: standard decompression.
jcomapi.c Application program interface routines common to compression and decompression.
jparam.c Compression parameter setting helper routines.
jtrans.c API and library routines for transcoding compression.
jdtrans.c API and library routines for transcoding decompression.

Compression side of the library:

jcinit.c Initialization: determines which other modules to use.
jcmaster.c Master control: setup and inter-pass sequencing logic.
jmainct.c Main buffer controller (preprocessor => JPEG compressor).
jprept.c Preprocessor buffer controller.
jcoeft.c Buffer controller for DCT coefficient buffer.
jjcolor.c Color space conversion.
jcsample.c Downsampling.
jdctmgr.c DCT manager (DCT implementation selection & control).
jfdctint.c Forward DCT using slow-but-accurate integer method.
jfdctfst.c Forward DCT using faster, less accurate integer method.
jfdctflt.c Forward DCT using floating-point arithmetic.
jhuff.c Huffman entropy coding.
jcarith.c Arithmetic entropy coding.
jmarker.c JPEG marker writing.
jdatadst.c Data destination managers for memory and stdout output.

Decompression side of the library:

jdmaster.c Master control: determines which other modules to use.
jinput.c Input controller: controls input processing modules.
jmainct.c Main buffer controller (JPEG decompressor => postprocessor).
jcoeft.c Buffer controller for DCT coefficient buffer.
jpostct.c Postprocessor buffer controller.
jmarker.c JPEG marker reading.
jhuff.c Huffman entropy decoding.
jarith.c Arithmetic entropy decoding.
jdctmgr.c IDCT manager (IDCT implementation selection & control).
jidctint.c Inverse DCT using slow-but-accurate integer method.
jidctfst.cnverse DCT using faster, less accurate integer method.
jidctflt.cnverse DCT using floating-point arithmetic.
jdsample.c Upsampling.
jcolor.c Color space conversion.
jdmerge.c	Merged upsampling/color conversion (faster, lower quality).
jquant1.c	One-pass color quantization using a fixed-spacing colormap.
jquant2.c	Two-pass color quantization using a custom-generated colormap.
Also handles one-pass quantization to an externally given map.
jdatasrc.c	Data source managers for memory and stdio input.

Support files for both compression and decompression:

jaricom.c	Tables for common use in arithmetic entropy encoding and
decoding routines.
jerror.c	Standard error handling routines (application replaceable).
jmemmgr.c	System-independent (more or less) memory management code.
jutils.c	Miscellaneous utility routines.

jmemmgr.c relies on a system-dependent memory management module. The IJG
distribution includes the following implementations of the system-dependent
module:

jmemnobs.c "No backing store": assumes adequate virtual memory exists.
jmemansi.c	Makes temporary files with ANSI-standard routine tmpfile().
jmemname.c	Makes temporary files with program-generated file names.
jmemdos.c	Custom implementation for MS-DOS (16-bit environment only):
can use extended and expanded memory as well as temp files.
jmemmac.c	Custom implementation for Apple Macintosh.

Exactly one of the system-dependent modules should be configured into an
installed JPEG library (see install.txt for hints about which one to use).
On unusual systems you may find it worthwhile to make a special
system-dependent memory manager.

Non-C source code files:

jmemdosa.asm80x86 assembly code support for jmemdos.c; used only in
MS-DOS-specific configurations of the JPEG library.

CJPEG/DJPEG/JPEGTRAN

====================

Include files:

cdjpeg.h	Declarations shared by cjpeg/djpeg/jpegtran modules.
cderror.h	Additional error and trace message codes for cjpeg et al.
transupp.h	Declarations for jpegtran support routines in transupp.c.

C source code files:
cjpeg.c	Main program for cjpeg.
cjpegalt.c	Main program for cjpeg with alternate user interface.
djpeg.c	Main program for djpeg.
djpegalt.c	Main program for djpeg with alternate user interface.
jpegtran.c	Main program for jpegtran.

cdjpeg.c	Utility routines used by all three programs.
rdcolmap.c	Code to read a colormap file for djpeg's ",map" switch.
rdsswitch.c	Code to process some of cjpeg's more complex switches. Also used by jpegtran.
transupp.c	Support code for jpegtran: lossless image manipulations.

Image file reader modules for cjpeg:

rdbmp.c	BMP file input.
rdgif.c	GIF file input.
rdppm.c	PPM/PGM file input.
rdrle.c	Utah RLE file input.
rdrta.r	Targa file input.

Image file writer modules for djpeg:

wrbmp.c	BMP file output.
wrgif.c	GIF file output.
wrppm.c	PPM/PGM file output.
wrdrle.c	Utah RLE file output.
wrdrta.r	Targa file output.

RDJPICOM/WRJPICOM

C source code files:

rdjpcom.c	Stand-alone rdjpcom application.
wrjpcom.c	Stand-alone wrjpcom application.

These programs do not depend on the IJG library. They do use jconfig.h and jinclude.h, only to improve portability.

ADDITIONAL FILES

Documentation (see README for a guide to the documentation files):

README	Master documentation file.
*.txt	Other documentation files.
*.1	Documentation in Unix man page format.
change.log
Version-to-version change highlights.
example.c
Sample code for calling JPEG library.

Configuration/installation files and programs (see install.txt for more info):

configure
Unix shell script to perform automatic configuration.
configure.ac
Source file for use with Autoconf to generate configure.
ltmain.sh
Support scripts for configure (from GNU libtool).
config.guess
config.sub
depcomp
missing
ar-lib
compile
install-sh
Install shell script for those Unix systems lacking one.
Makefile.in
Makefile input for configure.
Makefile.am
Source file for use with Automake to generate Makefile.in.
cckconfig.c
Program to generate jconfig.h on non-Unix systems.
jconfig.txt
Template for making jconfig.h by hand.
mak*.*
Sample makefiles for particular systems.
jconfig.*
Sample jconfig.h for particular systems.
libjpeg.map
Script to generate shared library with versioned symbols.
libjpeg.pc
pkg-config file input for configure.
aclocal.m4
M4 macro definitions for use with Autoconf.

Test files (see install.txt for test procedure):

test*.*
Source and comparison files for confidence test.
These are binary image files, NOT text files.

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* jdcoefct.c
 *
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* *
* This file contains the coefficient buffer controller for decompression.
* This controller is the top level of the JPEG decompressor proper.
* The coefficient buffer lies between entropy decoding and inverse-DCT steps.
* *
* In buffered-image mode, this controller is the interface between
* input-oriented processing and output-oriented processing.
* Also, the input side (only) is used when reading a file for transcoding.
*/

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 *
 * This file contains library routines for transcoding decompression,
 * that is, reading raw DCT coefficient arrays from an input JPEG file.
 * The routines in jdapimin.c will also be needed by a transcoder.
 */

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 * jmorecfg.h
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 *
 * This file contains additional configuration options that customize the
 * JPEG software for special applications or support machine-dependent
 * optimizations. Most users will not need to touch this file.
 */

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 * cdjpeg.c
 *
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 */
* This file contains common support routines used by the IJG application
* programs (cjpegs, djpeg, jpegtran).
*/

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* jcmaster.c
*
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* This file contains master control logic for the JPEG compressor.
* These routines are concerned with parameter validation, initial setup,
* and inter-pass control (determining the number of passes and the work
* to be done in each pass).
*/

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* jcprepc.t.c
*
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* This file contains the compression preprocessing controller.
* This controller manages the color conversion, downsampling,
* and edge expansion steps.
* Most of the complexity here is associated with buffering input rows
* as required by the downsampler. See the comments at the head of
* jsample.c for the downsampler's needs.
*/

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*
* This file contains upsampling routines.
*
* Upsampling input data is counted in "row groups". A row group
* is defined to be (v_samp_factor * DCT_v_scaled_size / min_DCT_v_scaled_size)
* sample rows of each component. Upsampling will normally produce
* max_v_samp_factor pixel rows from each row group (but this could vary
* if the upsampler is applying a scale factor of its own).
*
* An excellent reference for image resampling is
*/

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*
* This file exists to provide a single place to fix any problems with
* including the wrong system include files. (Common problems are taken
* care of by the standard jconfig symbols, but on really weird systems
* you may have to edit this file.)
*
* NOTE: this file is NOT intended to be included by applications using the
* JPEG library. Most applications need only include jpeglib.h.
*/

Found in path(s):
* /opt/cola/permits/1150898704_1642531261.48/0/jpegsr9e-zip/jpeg-9e/jinclude.h
No license file was found, but licenses were detected in source scan.

/*
* jccoefct.c
*
* Copyright (C) 1994-1997, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains the coefficient buffer controller for compression.
* This controller is the top level of the JPEG compressor proper.
* The coefficient buffer lies between forward-DCT and entropy encoding steps.
*/

No license file was found, but licenses were detected in source scan.

IJG JPEG LIBRARY: CODING RULES

Copyright (C) 1991-1996, Thomas G. Lane.
This file is part of the Independent JPEG Group's software.
For conditions of distribution and use, see the accompanying README file.

Since numerous people will be contributing code and bug fixes, it's important
to establish a common coding style. The goal of using similar coding styles
is much more important than the details of just what that style is.

In general we follow the recommendations of "Recommended C Style and Coding
Standards” revision 6.1 (Cannon et al. as modified by Spencer, Keppel and
Brader). This document is available in the IJG FTP archive (see

Block comments should be laid out thusly:

/*/ Block comments in this style.
*/

We indent statements in K&R style, e.g.,
if (test) {
    then-part;
} else {
    else-part;
}
with two spaces per indentation level. (This indentation convention is
handled automatically by GNU Emacs and many other text editors.)

Multi-word names should be written in lower case with underscores, e.g.,
multi_word_name (not multiWordName). Preprocessor symbols and enum constants
are similar but upper case (MULTI_WORD_NAME). Names should be unique within
the first fifteen characters. (On some older systems, global names must be unique within six characters. We accommodate this without cluttering the source code by using macros to substitute shorter names.)

We use function prototypes everywhere; we rely on automatic source code transformation to feed prototype-less C compilers. Transformation is done by the simple and portable tool 'ansi2knr.c' (courtesy of Ghostscript). ansi2knr is not very bright, so it imposes a format requirement on function declarations: the function name MUST BEGIN IN COLUMN 1. Thus all functions should be written in the following style:

\begin{verbatim}
LOCAL(int *)
function_name (int a, char *b)
{
    code...
}
\end{verbatim}

Note that each function definition must begin with GLOBAL(type), LOCAL(type), or METHODDEF(type). These macros expand to "static type" or just "type" as appropriate. They provide a readable indication of the routine's usage and can readily be changed for special needs. (For instance, special linkage keywords can be inserted for use in Windows DLLs.)

ansi2knr does not transform method declarations (function pointers in structs). We handle these with a macro JMETHOD, defined as
\begin{verbatim}
#ifdef HAVE_PROTOTYPES
#define JMETHOD(type,methodname,arglist)  type (*methodname) arglist
#else
#define JMETHOD(type,methodname,arglist)  type (*methodname) ()
#endif
\end{verbatim}

which is used like this:
\begin{verbatim}
struct function_pointers {
    JMETHOD(void, init_entropy_encoder, (int somearg, jparms *jp));
    JMETHOD(void, term_entropy_encoder, (void));
};
\end{verbatim}

Note the set of parentheses surrounding the parameter list.

A similar solution is used for forward and external function declarations (see the EXTERN and JPP macros).

If the code is to work on non-ANSI compilers, we cannot rely on a prototype declaration to coerce actual parameters into the right types. Therefore, use explicit casts on actual parameters whenever the actual parameter type is not identical to the formal parameter. Beware of implicit conversions to "int".

It seems there are some non-ANSI compilers in which the sizeof() operator is defined to return int, yet size_t is defined as long. Needless to say, this is brain-damaged. Always use the SIZEOF() macro in place of sizeof(),
so that the result is guaranteed to be of type size_t.

The JPEG library is intended to be used within larger programs. Furthermore, we want it to be reentrant so that it can be used by applications that process multiple images concurrently. The following rules support these requirements:

1. Avoid direct use of file I/O, "malloc", error report printouts, etc; pass these through the common routines provided.

2. Minimize global namespace pollution. Functions should be declared static wherever possible. (Note that our method-based calling conventions help this a lot: in many modules only the initialization function will ever need to be called directly, so only that function need be externally visible.) All global function names should begin with "jpeg_," and should have an abbreviated name (unique in the first six characters) substituted by macro when NEED_SHORT_EXTERNAL_NAMES is set.

3. Don't use global variables; anything that must be used in another module should be in the common data structures.

4. Don't use static variables except for read-only constant tables. Variables that should be private to a module can be placed into private structures (see the system architecture document, structure.txt).

5. Source file names should begin with "j" for files that are part of the library proper; source files that are not part of the library, such as cjpeg.c and djpeg.c, do not begin with "j". Keep source file names to eight characters (plus ",c" or ",h", etc) to make life easy for MS-DOSers. Keep compression and decompression code in separate source files --- some applications may want only one half of the library.

Note: these rules (particularly #4) are not followed religiously in the modules that are used in cjpeg/djpeg but are not part of the JPEG library proper. Those modules are not really intended to be used in other applications.

Found in path(s):
* /opt/cola/permits/1150898704_1642531261.48/0/jpegsr9e-zip/jpeg-9e/coderules.txt

No license file was found, but licenses were detected in source scan.

/****************************************************************************
/* wrgif.c
*/
/* Copyright (C) 1991-1996, Thomas G. Lane.
/* This file is part of the Independent JPEG Group's software.
/* For conditions of distribution and use, see the accompanying README file.
This file contains routines to write output images in GIF format.

These routines may need modification for non-Unix environments or
specialized applications. As they stand, they assume output to
an ordinary stdio stream.

This code is loosely based on ppmtofig from the PBMPLUS distribution
of Feb. 1991. That file contains the following copyright notice:
Based on GIFENCODEx by David Rowley <mgardi@watdscu.waterloo.edu>
Lempel-Ziv compression based on "compress" by Spencer W. Thomas et al.
Copyright (C) 1989 by Jef Poskanzer.
Permission to use, copy, modify, and distribute this software and its
documentation for any purpose and without fee is hereby granted, provided
that the above copyright notice appear in all copies and that both that
copyright notice and this permission notice appear in supporting
documentation. This software is provided "as is" without express or
implied warranty.

Found in path(s):
* /opt/cola/permits/1150898704_1642531261.48/0/jpegsr9e-zip/jpeg-9e/wrgif.c
No license file was found, but licenses were detected in source scan.

/*
 * cjpeg.c
 *
Copyright (C) 1991-1998, Thomas G. Lane.
Modified 2003-2013 by Guido Vollbeding.
This file is part of the Independent JPEG Group's software.
For conditions of distribution and use, see the accompanying README file.

This file contains a command-line user interface for the JPEG compressor.
It should work on any system with Unix- or MS-DOS-style command lines.

Two different command line styles are permitted, depending on the
compile-time switch TWO_FILE_COMMANDLINE:
cjpeg [options]  inputfile outputfile
cjpeg [options]  [inputfile]
In the second style, output is always to standard output, which you'd
normally redirect to a file or pipe to some other program. Input is
either from a named file or from standard input (typically redirected).
The second style is convenient on Unix but is unhelpful on systems that
don't support pipes. Also, you MUST use the first style if your system
doesn't do binary I/O to stdin/stdout.
To simplify script writing, the "-outfile" switch is provided. The syntax
cjpeg [options]  -outfile outputfile  inputfile
* works regardless of which command line style is used.
*/

Found in path(s):
* /opt/cola/permits/1150898704_1642531261.48/0/jpegsr9e-zip/jpeg-9e/cjpeg.c
No license file was found, but licenses were detected in source scan.

The Independent JPEG Group's JPEG software
===============================================

README for release 9e of 16-Jan-2022
=======================================

This distribution contains the ninth public release of the Independent JPEG
Group's free JPEG software. You are welcome to redistribute this software and
to use it for any purpose, subject to the conditions under LEGAL ISSUES, below.

This software is the work of Tom Lane, Guido Vollbeding, Philip Gladstone,
Bill Allombert, Jim Boucher, Lee Crocker, Bob Friesenhahn, Ben Jackson,
John Korejwa, Julian Minguillon, Luis Ortiz, George Phillips, Davide Rossi,
Ge' Weijers, and other members of the Independent JPEG Group.

IJJ is not affiliated with the ISO/IEC JTC1/SC29/WG1 standards committee
( previously known as JPEG, together with ITU-T SG16).

DOCUMENTATION ROADMAP
========================

This file contains the following sections:

OVERVIEW General description of JPEG and the IJJ software.
LEGAL ISSUES Copyright, lack of warranty, terms of distribution.
REFERENCES Where to learn more about JPEG.
ARCHIVE LOCATIONS Where to find newer versions of this software.
ACKNOWLEDGMENTS Special thanks.
FILE FORMAT WARS Software *not* to get.
TO DO Plans for future IJJ releases.

Other documentation files in the distribution are:

User documentation:
install.txt How to configure and install the IJJ software.
usage.txt Usage instructions for cjpeg, djpeg, jpegtran, rdjppcom, and wrjppcom.
*.1 Unix-style man pages for programs (same info as usage.txt).
wizard.txt Advanced usage instructions for JPEG wizards only.
cdaltui.txt Description of alternate user interface for cjpeg/djpeg.
Programmer and internal documentation:

change.log  Version-to-version change highlights.
libjpeg.txt How to use the JPEG library in your own programs.
ex ample.c Sample code for calling the JPEG library.
structure.txt Overview of the JPEG library's internal structure.
filelist.txt Road map of IJG files.
coderules.txt Coding style rules --- please read if you contribute code.

Please read at least the files install.txt and usage.txt. Some information can also be found in the JPEG FAQ (Frequently Asked Questions) article. See ARCHIVE LOCATIONS below to find out where to obtain the FAQ article.

If you want to understand how the JPEG code works, we suggest reading one or more of the REFERENCES, then looking at the documentation files (in roughly the order listed) before diving into the code.

OVERVIEW
========

This package contains C software to implement JPEG image encoding, decoding, and transcoding. JPEG (pronounced "jay-peg") is a standardized compression method for full-color and grayscale images.

This software implements JPEG baseline, extended-sequential, and progressive compression processes. Provision is made for supporting all variants of these processes, although some uncommon parameter settings aren't implemented yet. We have made no provision for supporting the hierarchical or lossless processes defined in the standard.

We provide a set of library routines for reading and writing JPEG image files, plus two sample applications "cjpeg" and "djpeg", which use the library to perform conversion between JPEG and some other popular image file formats. The library is intended to be reused in other applications.

In order to support file conversion and viewing software, we have included considerable functionality beyond the bare JPEG coding/decoding capability; for example, the color quantization modules are not strictly part of JPEG decoding, but they are essential for output to colormapped file formats or colormapped displays. These extra functions can be compiled out of the library if not required for a particular application.

We have also included "jpegtran", a utility for lossless transcoding between different JPEG processes, and "rdjpgcom" and "wrjpgcom", two simple applications for inserting and extracting textual comments in JFIF files.

The emphasis in designing this software has been on achieving portability and flexibility, while also making it fast enough to be useful. In particular,
the software is not intended to be read as a tutorial on JPEG. (See the REFERENCES section for introductory material.) Rather, it is intended to be reliable, portable, industrial-strength code. We do not claim to have achieved that goal in every aspect of the software, but we strive for it.

We welcome the use of this software as a component of commercial products. No royalty is required, but we do ask for an acknowledgement in product documentation, as described under LEGAL ISSUES.

LEGAL ISSUES
============

In plain English:

1. We don’t promise that this software works. (But if you find any bugs, please let us know!)
2. You can use this software for whatever you want. You don’t have to pay us.
3. You may not pretend that you wrote this software. If you use it in a program, you must acknowledge somewhere in your documentation that you’ve used the IJG code.

In legalese:

The authors make NO WARRANTY or representation, either express or implied, with respect to this software, its quality, accuracy, merchantability, or fitness for a particular purpose. This software is provided "AS IS", and you, its user, assume the entire risk as to its quality and accuracy.

This software is copyright (C) 1991-2022, Thomas G. Lane, Guido Vollbeding. All Rights Reserved except as specified below.

Permission is hereby granted to use, copy, modify, and distribute this software (or portions thereof) for any purpose, without fee, subject to these conditions:
(1) If any part of the source code for this software is distributed, then this README file must be included, with this copyright and no-warranty notice unaltered; and any additions, deletions, or changes to the original files must be clearly indicated in accompanying documentation.
(2) If only executable code is distributed, then the accompanying documentation must state that "this software is based in part on the work of the Independent JPEG Group".
(3) Permission for use of this software is granted only if the user accepts full responsibility for any undesirable consequences; the authors accept NO LIABILITY for damages of any kind.

These conditions apply to any software derived from or based on the IJG code, not just to the unmodified library. If you use our work, you ought to
acknowledge us.

Permission is NOT granted for the use of any IJG author's name or company name in advertising or publicity relating to this software or products derived from it. This software may be referred to only as "the Independent JPEG Group's software".

We specifically permit and encourage the use of this software as the basis of commercial products, provided that all warranty or liability claims are assumed by the product vendor.

The Unix configuration script "configure" was produced with GNU Autoconf. It is copyright by the Free Software Foundation but is freely distributable. The same holds for its supporting scripts (config.guess, config.sub, ltmain.sh). Another support script, install-sh, is copyright by X Consortium but is also freely distributable.

REFERENCES
============

We recommend reading one or more of these references before trying to understand the innards of the JPEG software.

The best short technical introduction to the JPEG compression algorithm is Wallace, Gregory K. "The JPEG Still Picture Compression Standard", Communications of the ACM, April 1991 (vol. 34 no. 4), pp. 30-44. (Adjacent articles in that issue discuss MPEG motion picture compression, applications of JPEG, and related topics.) If you don't have the CACM issue handy, a PDF file containing a revised version of Wallace's article is available at https://www.ijg.org/files/Wallace.JPEG.pdf. The file (actually a preprint for an article that appeared in IEEE Trans. Consumer Electronics) omits the sample images that appeared in CACM, but it includes corrections and some added material. Note: the Wallace article is copyright ACM and IEEE, and it may not be used for commercial purposes.

A somewhat less technical, more leisurely introduction to JPEG can be found in "The Data Compression Book" by Mark Nelson and Jean-loup Gailly, published by M&T Books (New York), 2nd ed. 1996, ISBN 1-55851-434-1. This book provides good explanations and example C code for a multitude of compression methods including JPEG. It is an excellent source if you are comfortable reading C code but don't know much about data compression in general. The book's JPEG sample code is far from industrial-strength, but when you are ready to look at a full implementation, you've got one here...

The best currently available description of JPEG is the textbook "JPEG Still Image Data Compression Standard" by William B. Pennebaker and Joan L.

Although this is by far the most detailed and comprehensive exposition of JPEG publicly available, we point out that it is still missing an explanation of the most essential properties and algorithms of the underlying DCT technology.

If you think that you know about DCT-based JPEG after reading this book, then you are in delusion. The real fundamentals and corresponding potential of DCT-based JPEG are not publicly known so far, and that is the reason for all the mistaken developments taking place in the image coding domain.


IJG JPEG 9 introduces a reversible color transform for improved lossless compression which is described in a contributed document ISO/IEC JTC1/SC29/WG1 N 6080 with title "JPEG 9 Lossless Coding", June/July 2012, Paris, France.

The JPEG standard does not specify all details of an interchangeable file format. For the omitted details we follow the "JFIF" conventions, version 2. JFIF version 1 has been adopted as Recommendation ITU-T T.871 (05/2011) : Information technology - Digital compression and coding of continuous-tone still images: JPEG File Interchange Format (JFIF). It is available as a free download in PDF file format from https://www.itu.int/rec/T-REC-T.871. A PDF file of the older JFIF document is available at https://www.w3.org/Graphics/JPEG/jfif3.pdf.

The TIFF 6.0 file format specification can be obtained by FTP from ftp://ftp.sgi.com/graphics/tiff/TIFF6.ps.gz. The JPEG incorporation scheme found in the TIFF 6.0 spec of 3-June-92 has a number of serious problems. IJG does not recommend use of the TIFF 6.0 design (TIFF Compression tag 6). Instead, we recommend the JPEG design proposed by TIFF Technical Note #2 (Compression tag 7). Copies of this Note can be obtained from https://www.ijg.org/files/. It is expected that the next revision of the TIFF spec will replace the 6.0 JPEG design with the Note's design.

Although IJG's own code does not support TIFF/JPEG, the free libtiff library uses our library to implement TIFF/JPEG per the Note.
ARCHIVE LOCATIONS
==================

The "official" archive site for this software is www.ijg.org. The most recent released version can always be found there in directory "files". This particular version will be archived in Windows-compatible "zip" archive format as https://www.ijg.org/files/jpegsrcr9e.zip, and in Unix-compatible "tar.gz" archive format as https://www.ijg.org/files/jpegsrc.v9e.tar.gz.


If you don't have Web or FTP access, send e-mail to mail-server@rtfm.mit.edu with body

send usenet/news.answers/jpeg-faq/part1
send usenet/news.answers/jpeg-faq/part2

ACKNOWLEDGMENTS
=================

Thank to Juergen Bruder for providing me with a copy of the common DCT algorithm article, only to find out that I had come to the same result in a more direct and comprehensible way with a more generative approach.

Thank to Istvan Sebestyen and Joan L. Mitchell for inviting me to the ITU JPEG (Study Group 16) meeting in Geneva, Switzerland.

Thank to Thomas Wiegand and Gary Sullivan for inviting me to the Joint Video Team (MPEG & ITU) meeting in Geneva, Switzerland.

Thank to Thomas Richter and Daniel Lee for inviting me to the ISO/IEC JTC1/SC29/WG1 (previously known as JPEG, together with ITU-T SG16) meeting in Berlin, Germany.

Thank to John Korejwa and Massimo Ballerini for inviting me to fruitful consultations in Boston, MA and Milan, Italy.

Thank to Hendrik Elstner, Roland Fassauer, Simone Zuck, Guenther Maier-Gerber, Walter Stoeber, Fred Schmitz, and Norbert Braunagel for corresponding business development.
Thank to Nico Zschach and Dirk Stelling of the technical support team at the Digital Images company in Halle for providing me with extra equipment for configuration tests.

Thank to Richard F. Lyon (then of Foveon Inc.) for fruitful communication about JPEG configuration in Sigma Photo Pro software.

Thank to Andrew Finkenstadt for hosting the iijg.org site.

Thank to Thomas G. Lane for the original design and development of this singular software package.

Thank to Lars Goehler, Andreas Heinecke, Sebastian Fuss, Yvonne Roebert, Andrej Werner, Ulf-Dietrich Braumann, and Nina Ssymank for support and public relations.

FILE FORMAT WARS
================

The ISO/IEC JTC1/SC29/WG1 standards committee (previously known as JPEG, together with ITU-T SG16) currently promotes different formats containing the name "JPEG" which is misleading because these formats are incompatible with original DCT-based JPEG and are based on faulty technologies. IJG therefore does not and will not support such momentary mistakes (see REFERENCES).

There exist also distributions under the name "OpenJPEG" promoting such kind of formats which is misleading because they don't support original JPEG images.

We have no sympathy for the promotion of inferior formats. Indeed, one of the original reasons for developing this free software was to help force convergence on common, interoperable format standards for JPEG files. Don't use an incompatible file format!

(In any case, our decoder will remain capable of reading existing JPEG image files indefinitely.)

The ISO committee pretends to be "responsible for the popular JPEG" in their public reports which is not true because they don't respond to actual requirements for the maintenance of the original JPEG specification. Furthermore, the ISO committee pretends to "ensure interoperability" with their standards which is not true because their "standards" support only application-specific and proprietary use cases and contain mathematically incorrect code.

There are currently different distributions in circulation containing the name "libjpeg" which is misleading because they don't have the features and are incompatible with formats supported by actual IJG libjpeg distributions. One of those fakes is released by members of the ISO committee and just uses
the name of libjpeg for misdirection of people, similar to the abuse of the name JPEG as described above, while having nothing in common with actual IJG libjpeg distributions and containing mathematically incorrect code. The other one claims to be a "derivative" or "fork" of the original libjpeg, but violates the license conditions as described under LEGAL ISSUES above and violates basic C programming properties.
We have no sympathy for the release of misleading, incorrect and illegal distributions derived from obsolete code bases.
Don't use an obsolete code base!

According to the UCC (Uniform Commercial Code) law, IJG has the lawful and legal right to foreclose on certain standardization bodies and other institutions or corporations that knowingly perform substantial and systematic deceptive acts and practices, fraud, theft, and damaging of the value of the people of this planet without their knowing, willing and intentional consent.
The titles, ownership, and rights of these institutions and all their assets are now duly secured and held in trust for the free people of this planet.
People of the planet, on every country, may have a financial interest in the assets of these former principals, agents, and beneficiaries of the foreclosed institutions and corporations.
IJG asserts what is: that each man, woman, and child has unalienable value and rights granted and deposited in them by the Creator and not any one of the people is subordinate to any artificial principality, corporate fiction or the special interest of another without their appropriate knowing, willing and intentional consent made by contract or accommodation agreement.
IJG expresses that which already was.
The people have already determined and demanded that public administration entities, national governments, and their supporting judicial systems must be fully transparent, accountable, and liable.
IJG has secured the value for all concerned free people of the planet.

A partial list of foreclosed institutions and corporations ("Hall of Shame") is currently prepared and will be published later.

TO DO

Version 9 is the second release of a new generation JPEG standard to overcome the limitations of the original JPEG specification, and is the first true source reference JPEG codec.
More features are being prepared for coming releases...

Please send bug reports, offers of help, etc. to jpeg-info@jpegclub.org.

Found in path(s):
* /opt/cola/permits/1150898704_1642531261.48/0/jpegsr9e-zip/jpeg-9e/README
/*
 * jfdctflt.c
 *
 * Copyright (C) 1994-1996, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains a floating-point implementation of the
 * forward DCT (Discrete Cosine Transform).
 *
 * This implementation should be more accurate than either of the integer
 * DCT implementations. However, it may not give the same results on all
 * machines because of differences in roundoff behavior. Speed will depend
 * on the hardware's floating point capacity.
 *
 * A 2-D DCT can be done by 1-D DCT on each row followed by 1-D DCT
 * on each column. Direct algorithms are also available, but they are
 * much more complex and seem not to be any faster when reduced to code.
 *
 * This implementation is based on Arai, Agui, and Nakajima's algorithm for
 * scaled DCT. Their original paper (Trans. IEICE E-71(11):1095) is in
 * Japanese, but the algorithm is described in the Pennebaker & Mitchell
 * JPEG textbook (see REFERENCES section in file README). The following code
 * is based directly on figure 4-8 in P&M.
 * While an 8-point DCT cannot be done in less than 11 multiplies, it is
 * possible to arrange the computation so that many of the multiplies are
 * simple scalings of the final outputs. These multiplies can then be
 * folded into the multiplications or divisions by the JPEG quantization
 * table entries. The AA&N method leaves only 5 multiplies and 29 adds
 * to be done in the DCT itself.
 * The primary disadvantage of this method is that with a fixed-point
 * implementation, accuracy is lost due to imprecise representation of the
 * scaled quantization values. However, that problem does not arise if
 * we use floating point arithmetic.
 */

Found in path(s):
* /opt/cola/permits/1150898704_1642531261.48/0/jpegsr9e-zip/jpeg-9e/jfdctflt.c

No license file was found, but licenses were detected in source scan.

/*
 * jdinput.c
 *
 * Copyright (C) 1991-1997, Thomas G. Lane.
 * Modified 2002-2020 by Guido Vollbeding.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.

* This file contains input control logic for the JPEG decompressor.
* These routines are concerned with controlling the decompressor's input
* processing (marker reading and coefficient decoding). The actual input
* reading is done in jdmarker.c, jdhuff.c, and jdarith.c.
*/

Found in path(s):
* /opt/cola/permits/1150898704_1642531261.48/0/jpegsr9e-zip/jpeg-9e/jdinput.c
No license file was found, but licenses were detected in source scan.

/*
* rdppm.c
*
* Copyright (C) 1991-1997, Thomas G. Lane.
* Modified 2009-2020 by Bill Allombert, Guido Vollbeding.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains routines to read input images in PPM/PGM format.
* The extended 2-byte-per-sample raw PPM/PGM formats are supported.
* The PBMPPLUS library is NOT required to compile this software
* (but it is highly useful as a set of PPM image manipulation programs).
*
* These routines may need modification for non-Unix environments or
* specialized applications. As they stand, they assume input from
* an ordinary stdio stream. They further assume that reading begins
* at the start of the file; start_input may need work if the
* user interface has already read some data (e.g., to determine that
* the file is indeed PPM format).
*/
/* Portions of this code are based on the PBMPPLUS library, which is:
**
** Copyright (C) 1988 by Jef Poskanzer.
**
** Permission to use, copy, modify, and distribute this software and its
** documentation for any purpose and without fee is hereby granted, provided
** that the above copyright notice appear in all copies and that both that
** copyright notice and this permission notice appear in supporting
** documentation. This software is provided "as is" without express or
** implied warranty.
*/

Found in path(s):
* /opt/cola/permits/1150898704_1642531261.48/0/jpegsr9e-zip/jpeg-9e/rdppm.c
No license file was found, but licenses were detected in source scan.

; For conditions of distribution and use, see the accompanying README file.

Found in path(s):
* /opt/cola/permits/1150898704_1642531261.48/0/jpegsr9e-zip/jpeg-9e/jmemdosa.asm
No license file was found, but licenses were detected in source scan.

/*
 * jcomapi.c
 *
 * Copyright (C) 1994-1997, Thomas G. Lane.
 * Modified 2019 by Guido Vollbeding.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 * This file contains application interface routines that are used for both
 * compression and decompression.
 */

Found in path(s):
* /opt/cola/permits/1150898704_1642531261.48/0/jpegsr9e-zip/jpeg-9e/jcomapi.c
No license file was found, but licenses were detected in source scan.

/*
 * rdrle.c
 *
 * Copyright (C) 1991-1996, Thomas G. Lane.
 * Modified 2019 by Guido Vollbeding.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains routines to read input images in Utah RLE format.
 * The Utah Raster Toolkit library is required (version 3.1 or later).
 *
 * These routines may need modification for non-Unix environments or
 * specialized applications. As they stand, they assume input from
 * an ordinary stdio stream. They further assume that reading begins
 * at the start of the file; start_input may need work if the
 * user interface has already read some data (e.g., to determine that
 * the file is indeed RLE format).
 *
 * Based on code contributed by Mike Lijewski,
 * with updates from Robert Hutchinson.
 */

Found in path(s):
* /opt/cola/permits/1150898704_1642531261.48/0/jpegsr9e-zip/jpeg-9e/rdrle.c
No license file was found, but licenses were detected in source scan.

/*
 * jmemnobs.c
 * 
 * Copyright (C) 1992-1996, Thomas G. Lane.
 * Modified 2019 by Guido Vollbeding.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 * 
 * This file provides a really simple implementation of the system-
 * dependent portion of the JPEG memory manager. This implementation
 * assumes that no backing-store files are needed: all required space
 * can be obtained from malloc().
 * This is very portable in the sense that it'll compile on almost anything,
 * but you'd better have lots of main memory (or virtual memory) if you want
 * to process big images.
 * Note that the max_memory_to_use option is respected by this implementation.
 */

Found in path(s):
* /opt/cola/permits/1150898704_1642531261.48/0/jpegsr9e-zip/jpeg-9e/jmemnobs.c

No license file was found, but licenses were detected in source scan.

/*
 * jdmarker.c
 * 
 * Copyright (C) 1991-1998, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 * 
 * This file contains routines to decode JPEG datastream markers.
 * Most of the complexity arises from our desire to support input
 * suspension: if not all of the data for a marker is available,
 * we must exit back to the application. On resumption, we reprocess
 * the marker.
 */

Found in path(s):
* /opt/cola/permits/1150898704_1642531261.48/0/jpegsr9e-zip/jpeg-9e/jdmarker.c

No license file was found, but licenses were detected in source scan.

/*
 * jfdctfst.c
 * 
 * Copyright (C) 1994-1996, Thomas G. Lane.
 */
This file is part of the Independent JPEG Group’s software.
For conditions of distribution and use, see the accompanying README file.

This file contains a fast, not so accurate integer implementation of the
forward DCT (Discrete Cosine Transform).

A 2-D DCT can be done by 1-D DCT on each row followed by 1-D DCT
on each column. Direct algorithms are also available, but they are
much more complex and seem not to be any faster when reduced to code.

This implementation is based on Arai, Agui, and Nakajima’s algorithm for
scaled DCT. Their original paper (Trans. IEICE E-71(11):1095) is in
Japanese, but the algorithm is described in the Pennebaker & Mitchell
JPEG textbook (see REFERENCES section in file README). The following code
is based directly on figure 4-8 in P&M.
While an 8-point DCT cannot be done in less than 11 multiplies, it is
possible to arrange the computation so that many of the multiplies are
simple scalings of the final outputs. These multiplies can then be
folded into the multiplications or divisions by the JPEG quantization
table entries. The AA&N method leaves only 5 multiplies and 29 adds
to be done in the DCT itself.
The primary disadvantage of this method is that with fixed-point math,
accuracy is lost due to imprecise representation of the scaled
quantization values. The smaller the quantization table entry, the less
precise the scaled value, so this implementation does worse with high-
quality-setting files than with low-quality ones.

Found in path(s):
*/

transupp.h

Copyright (C) 1997-2019, Thomas G. Lane, Guido Vollbeding.
This file is part of the Independent JPEG Group’s software.
For conditions of distribution and use, see the accompanying README file.

This file contains declarations for image transformation routines and
other utility code used by the jpegtran sample application. These are
NOT part of the core JPEG library. But we keep these routines separate
from jpegtran.c to ease the task of maintaining jpegtran-like programs
that have other user interfaces.

NOTE: all the routines declared here have very specific requirements
about when they are to be executed during the reading and writing of the
source and destination files. See the comments in transupp.c, or see
* jpegtran.c for an example of correct usage.
*/

Found in path(s):
* /opt/cola/permits/1150898704_1642531261.48/0/jpegsr9e-zip/jpeg-9e/transupp.h
No license file was found, but licenses were detected in source scan.

/*
* jaricom.c
*
* Developed 1997-2011 by Guido Vollbeding.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
* This file contains probability estimation tables for common use in
* arithmetic entropy encoding and decoding routines.
* This data represents Table D.3 in the JPEG spec (D.2 in the draft),
* ISO/IEC IS 10918-1 and CCITT Recommendation ITU-T T.81, and Table 24
*/

Found in path(s):
* /opt/cola/permits/1150898704_1642531261.48/0/jpegsr9e-zip/jpeg-9e/jaricom.c
No license file was found, but licenses were detected in source scan.

/*
* jconfig.txt
*
* Copyright (C) 1991-1994, Thomas G. Lane.
* Modified 2009-2013 by Guido Vollbeding.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
* This file documents the configuration options that are required to
* customize the JPEG software for a particular system.
* The actual configuration options for a particular installation are stored
* in jconfig.h. On many machines, jconfig.h can be generated automatically
* or copied from one of the "canned" jconfig files that we supply. But if
* you need to generate a jconfig.h file by hand, this file tells you how.
* DO NOT EDIT THIS FILE --- IT WON'T ACCOMPLISH ANYTHING.
* EDIT A COPY NAMED JCONFIG.H.
*/

/*
* These symbols indicate the properties of your machine or compiler.
  * #define the symbol if yes, #undef it if no.
  */

/* Does your compiler support function prototypes?
* (If not, you also need to use ansi2knr, see install.txt)
*/
#define HAVE_PROTOTYPES

/* Does your compiler support the declaration "unsigned char"?
* How about "unsigned short"?
*/
#define HAVE_UNSIGNED_CHAR
#define HAVE_UNSIGNED_SHORT

/* Define "void" as "char" if your compiler doesn't know about type void.
* NOTE: be sure to define void such that "void *" represents the most general
* pointer type, e.g., that returned by malloc().
*/
#ifndef void
#define void char
#endif

/* Define "const" as empty if your compiler doesn't know the "const" keyword.
*/
#ifndef const
#define const
#endif

/* Define this if an ordinary "char" type is unsigned.
* If you're not sure, leaving it undefined will work at some cost in speed.
* If you defined HAVE_UNSIGNED_CHAR then the speed difference is minimal.
*/
#ifndef CHAR_IS_UNSIGNED
#define CHAR_IS_UNSIGNED
#endif

/* Define this if your system has an ANSI-conforming <stddef.h> file.
*/
#define HAVE_STDDEF_H

/* Define this if your system has an ANSI-conforming <stdlib.h> file.
*/
#define HAVE_STDLIB_H

/* Define this if your system does not have an ANSI/SysV <string.h>,
* but does have a BSD-style <strings.h>.
*/
#ifndef NEED_BSD_STRINGS
#define NEED_BSD_STRINGS
#endif

/* Define this if your system does not provide typedef size_t in any of the
* ANSI-standard places (stddef.h, stdlib.h, or stdio.h), but places it in
* <sys/types.h> instead.
*/
#ifndef HAVE_STDINT_H
#define HAVE_STDINT_H
#endif

/* Define this if your system does not have an ANSI/SysV <unistd.h>.
*/
#define HAVE_UNISTD_H

/* Define this if your system does not have an ANSI/SysV <signal.h>.
*/
#define HAVE_SIGNAL_H

/* Define this if your system does not have an ANSI/SysV <malloc.h>.
*/
#define HAVE_MALLOC_H

/* Define this if your system does not have an ANSI/SysV <stdio.h>.
*/
#define HAVE_STDIO_H
#undef NEED_SYS_TYPES_H

/* For 80x86 machines, you need to define NEED_FAR_POINTERS, * unless you are using a large-data memory model or 80386 flat-memory mode. * On less brain-damaged CPUs this symbol must not be defined. * (Defining this symbol causes large data structures to be referenced through * "far" pointers and to be allocated with a special version of malloc.) */
#undef NEED_FAR_POINTERS

/* Define this if your linker needs global names to be unique in less * than the first 15 characters. */
#undef NEED_SHORT_EXTERNAL_NAMES

/* Although a real ANSI C compiler can deal perfectly well with pointers to * unspecified structures (see "incomplete types" in the spec), a few pre-ANSI * and pseudo-ANSI compilers get confused. To keep one of these bozos happy, * define INCOMPLETE_TYPES_BROKEN. This is not recommended unless you * actually get "missing structure definition" warnings or errors while * compiling the JPEG code. */
#undef INCOMPLETE_TYPES_BROKEN

/* Define "boolean" as unsigned char, not enum, on Windows systems. */
ifndef _WIN32
ifndef __RPCNDR_H__ /* don't conflict if rpcndr.h already read */
typedef unsigned char boolean;
#endif
ifndef FALSE /* in case these macros already exist */
define FALSE0/* values of boolean */
#endif
ifndef TRUE
#define TRUE1
#endif
#define HAVE_BOOLEAN/* prevent jmorecfg.h from redefining it */
#endif

/* The following options affect code selection within the JPEG library, * but they don't need to be visible to applications using the library. * To minimize application namespace pollution, the symbols won't be * defined unless JPEG_INTERNALS has been defined. */
ifndef JPEG_INTERNALS

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/* Define this if your compiler implements ">>" on signed values as a logical
 * (unsigned) shift; leave it undefined if ">>" is a signed (arithmetic) shift,
 * which is the normal and rational definition.
 */
#undef RIGHT_SHIFT_IS_UNSIGNED

#endif /* JPEG_INTERNALS */

/*
The remaining options do not affect the JPEG library proper,
* but only the sample applications cjpeg/djpeg (see cjpeg.c, djpeg.c).
* Other applications can ignore these.
*/
#ifdef JPEG_CJJPEG_DJPEG

/* These defines indicate which image (non-JPEG) file formats are allowed. */
#define BMP_SUPPORTED		/* BMP image file format */
#define GIF_SUPPORTED		/* GIF image file format */
#define PPM_SUPPORTED		/* PBMPLUS PPM/PGM image file format */
#undef RLE_SUPPORTED		/* Utah RLE image file format */
#define TARGA_SUPPORTED		/* Targa image file format */

/* Define this if you want to name both input and output files on the command
* line, rather than using stdout and optionally stdin. You MUST do this if
* your system can't cope with binary I/O to stdin/stdout. See comments at
* head of cjpeg.c or djpeg.c.
*/
#undef TWO_FILE_COMMANDLINE

/* Define this if your system needs explicit cleanup of temporary files.
* This is crucial under MS-DOS, where the temporary "files" may be areas
* of extended memory; on most other systems it's not as important.
*/
#undef NEED_SIGNAL_CATCHER

/* By default, we open image files with fopen(...,"rb") or fopen(...,"wb").
* This is necessary on systems that distinguish text files from binary files,
* and is harmless on most systems that don't. If you have one of the rare
* systems that complains about the "b" spec, define this symbol.
*/
#undef DONT_USE_B_MODE

/* Define this if you want percent-done progress reports from cjpeg/djpeg.*/
/*
#define PROGRESS_REPORT

#endif /* JPEG_CJPEG_DJPEG */

Found in path(s):
* /opt/cola/permits/1150898704_1642531261.48/0/jpegsr9e-zip/jpeg-9e/jconfig.txt
No license file was found, but licenses were detected in source scan.

/*
 * wrbmp.c
 *
 * Copyright (C) 1994-1996, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains routines to write output images in Microsoft "BMP"
 * format (MS Windows 3.x and OS/2 1.x flavors).
 * Either 8-bit colormapped or 24-bit full-color format can be written.
 * No compression is supported.
 *
 * These routines may need modification for non-Unix environments or
 * specialized applications. As they stand, they assume output to
 * an ordinary stdio stream.
 *
 * This code contributed by James Arthur Boucher.
 */

Found in path(s):
* /opt/cola/permits/1150898704_1642531261.48/0/jpegsr9e-zip/jpeg-9e/wrbmp.c
No license file was found, but licenses were detected in source scan.

/*
 * wrppm.c
 *
 * Copyright (C) 1991-1996, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains routines to write output images in PPM/PGM format.
 * The extended 2-byte-per-sample raw PPM/PGM formats are supported.
 * The PBMPPLUS library is NOT required to compile this software
 * (but it is highly useful as a set of PPM image manipulation programs).
 *
 * These routines may need modification for non-Unix environments or
* specialized applications. As they stand, they assume output to
* an ordinary stdio stream.
*/

Found in path(s):
* /opt/cola/permits/1150898704_1642531261.48/0/jpegsr9e-zip/jpeg-9e/wrppm.c
No license file was found, but licenses were detected in source scan.

/*
* wrtarga.c
*
* Copyright (C) 1991-1996, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
* This file contains routines to write output images in Targa format.
* These routines may need modification for non-Unix environments or
* specialized applications. As they stand, they assume output to
* an ordinary stdio stream.
* Based on code contributed by Lee Daniel Crocker.
*/

Found in path(s):
* /opt/cola/permits/1150898704_1642531261.48/0/jpegsr9e-zip/jpeg-9e/wrjpgcom.c
No license file was found, but licenses were detected in source scan.

/*
* wrjpgcom.c
*
* Copyright (C) 1994-1997, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
* This file contains a very simple stand-alone application that inserts
* user-supplied text as a COM (comment) marker in a JFIF file.
* This may be useful as an example of the minimum logic needed to parse
* JPEG markers.
*/

Found in path(s):
* /opt/cola/permits/1150898704_1642531261.48/0/jpegsr9e-zip/jpeg-9e/wrjpgcom.c
No license file was found, but licenses were detected in source scan.

/*
* jdapimin.c
*
* Copyright (C) 1994-1998, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains application interface code for the decompression half
* of the JPEG library. These are the "minimum" API routines that may be
* needed in either the normal full-decompression case or the
* transcoding-only case.
*
* Most of the routines intended to be called directly by an application
* are in this file or in jdapistd.c. But also see jcomapi.c for routines
* shared by compression and decompression, and jdtrans.c for the transcoding
* case.
*/

Found in path(s):
* /opt/cola/permits/1150898704_1642531261.48/0/jpegsr9e-zip/jpeg-9e/jdapimin.c
No license file was found, but licenses were detected in source scan.

/*
* jdatasrc.c
*
* Copyright (C) 1994-1996, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains decompression data source routines for the case of
* reading JPEG data from memory or from a file (or any stdio stream).
* While these routines are sufficient for most applications,
* some will want to use a different source manager.
* IMPORTANT: we assume that fread() will correctly transcribe an array of
* JOCTETs from 8-bit-wide elements on external storage. If char is wider
* than 8 bits on your machine, you may need to do some tweaking.
*/

Found in path(s):
* /opt/cola/permits/1150898704_1642531261.48/0/jpegsr9e-zip/jpeg-9e/jdatasrc.c
No license file was found, but licenses were detected in source scan.

/*
* jpegint.h
*
* Copyright (C) 1991-1997, Thomas G. Lane.
This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file provides common declarations for the various JPEG modules.
* These declarations are considered internal to the JPEG library; most
* applications using the library shouldn't need to include this file.
*/

Found in path(s):
* /opt/cola/permits/1150898704_1642531261.48/0/jpegsr9e-zip/jpeg-9e/jpegint.h
No license file was found, but licenses were detected in source scan.

/*
* jmemdos.c
*
* Copyright (C) 1992-1997, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file provides an MS-DOS-compatible implementation of the system-
* dependent portion of the JPEG memory manager. Temporary data can be
* stored in extended or expanded memory as well as in regular DOS files.
*
* If you use this file, you must be sure that NEED_FAR_POINTERS is defined
* if you compile in a small-data memory model; it should NOT be defined if
* you use a large-data memory model. This file is not recommended if you
* are using a flat-memory-space 386 environment such as DJGCC or Watcom C.
* Also, this code will NOT work if struct fields are aligned on greater than
* 2-byte boundaries.
*
* Based on code contributed by Ge' Weijers.
*/

Found in path(s):
* /opt/cola/permits/1150898704_1642531261.48/0/jpegsr9e-zip/jpeg-9e/jmemdos.c
No license file was found, but licenses were detected in source scan.

/*
* jcarith.c
*
* Developed 1997-2020 by Guido Vollbeding.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains portable arithmetic entropy encoding routines for JPEG
*
* Both sequential and progressive modes are supported in this single module.

Suspension is not currently supported in this module.

Found in path(s):
* /opt/cola/permits/1150898704_1642531261.48/0/jpegsr9e-2zip/jpeg-9e/jcarith.c

No license file was found, but licenses were detected in source scan.

/*
 * jmemmac.c
 *
 * Copyright (C) 1992-1997, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * jmemmac.c provides an Apple Macintosh implementation of the system-
 * dependent portion of the JPEG memory manager.
 *
 * If you use jmemmac.c, then you must define USE_MAC_MEMMGR in the
 * JPEG_INTERNALS part of jconfig.h.
 *
 * jmemmac.c uses the Macintosh toolbox routines NewPtr and DisposePtr
 * instead of malloc and free. It accurately determines the amount of
 * memory available by using CompactMem. Notice that if left to its
 * own devices, this code can chew up all available space in the
 * application's zone, with the exception of the rather small "slop"
 * factor computed in jpeg_mem_available(). The application can ensure
 * that more space is left over by reducing max_memory_to_use.
 *
 * Large images are swapped to disk using temporary files and System 7.0+'s
 * temporary folder functionality.
 *
 * Note that jmemmac.c depends on two features of MacOS that were first
 * introduced in System 7: FindFolder and the FSSpec-based calls.
 * If your application uses jmemmac.c and is run under System 6 or earlier,
 * and the jpeg library decides it needs a temporary file, it will abort,
 * printing error messages about requiring System 7. (If no temporary files
 * are created, it will run fine.)
 *
 * If you want to use jmemmac.c in an application that might be used with
 * System 6 or earlier, then you should remove dependencies on FindFolder
 * and the FSSpec calls. You will need to replace FindFolder with some
 * other mechanism for finding a place to put temporary files, and you
 * should replace the FSSpec calls with their HFS equivalents:
 *
 *   FSpDelete   ->  HDelete
 *   FSpGetFInfo ->  HGetFInfo
 *   FSpCreate   ->  HCreate
* FSolOpenDF  ->  HOpen      *** Note: not HOpenDF  ***
* FSMakeFSSpec  ->  (fill in spec by hand.)

* (Use HOpen instead of HOpenDF.  HOpen is just a glue-interface to PBHOpen,
* which is on all HFS macs.  HOpenDF is a System 7 addition which avoids the
* ages-old problem of names starting with a period.)
*
* Contributed by Sam Bushell (jsam@iagu.on.net) and
* Dan Gildor (gyld@in-touch.com).
*/

Found in path(s):
* /opt/cola/permits/1150898704_1642531261.48/0/jpegsr9e-zip/jpeg-9e/jmemmac.c
No license file was found, but licenses were detected in source scan.

INSTALLATION INSTRUCTIONS for the Independent JPEG Group's JPEG software

Copyright (C) 1991-2021, Thomas G. Lane, Guido Vollbeding.
This file is part of the Independent JPEG Group's software.
For conditions of distribution and use, see the accompanying README file.

This file explains how to configure and install the IJG software. We have
tried to make this software extremely portable and flexible, so that it can be
adapted to almost any environment. The downside of this decision is that the
installation process is complicated. We have provided shortcuts to simplify
the task on common systems. But in any case, you will need at least a little
familiarity with C programming and program build procedures for your system.

If you are only using this software as part of a larger program, the larger
program's installation procedure may take care of configuring the IJG code.
For example, Ghostscript's installation script will configure the IJG code.
You don't need to read this file if you just want to compile Ghostscript.

If you are on a Unix machine, you may not need to read this file at all.
Try doing
./configure
make
make test
If that doesn't complain, do
make install
(better do "make -n install" first to see if the makefile will put the files
where you want them).  Read further if you run into snags or want to customize
the code for your system.

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using one of the supplied jconfig and makefile files
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Building the software
Testing the software
Installing the software
Optional stuff
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Hints for specific systems

BEFORE YOU START
=================

Before installing the software you must unpack the distributed source code. Since you are reading this file, you have probably already succeeded in this task. However, there is a potential for error if you needed to convert the files to the local standard text file format (for example, if you are on MS-DOS you may have converted LF end-of-line to CR/LF). You must apply such conversion to all the files EXCEPT those whose names begin with "test". The test files contain binary data; if you change them in any way then the self-test will give bad results.

Please check the last section of this file to see if there are hints for the specific machine or compiler you are using.

CONFIGURING THE SOFTWARE
===========================

To configure the IJG code for your system, you need to create two files:
* jconfig.h: contains values for system-dependent #define symbols.
* Makefile: controls the compilation process.
(On a non-Unix machine, you may create "project files" or some other substitute for a Makefile. jconfig.h is needed in any environment.)

We provide three different ways to generate these files:
* On a Unix system, you can just run the "configure" script.
* We provide sample jconfig files and makefiles for popular machines;
  if your machine matches one of the samples, just copy the right sample files to jconfig.h and Makefile.
* If all else fails, read the instructions below and make your own files.

Configuring the software using the automatic "configure" script
If you are on a Unix machine, you can just type

```
./configure
```

and let the configure script construct appropriate configuration files.

If you're using "csh" on an old version of System V, you might need to type

```
sh configure
```

instead to prevent csh from trying to execute configure itself.

Expect configure to run for a few minutes, particularly on slower machines; it works by compiling a series of test programs.

Configure was created with GNU Autoconf and it follows the usual conventions for GNU configure scripts. It makes a few assumptions that you may want to override. You can do this by providing optional switches to configure:

* Configure will build both static and shared libraries, if possible.
  If you want to build libjpeg only as a static library, say
  
  ```
  ./configure --disable-shared
  ```

  If you want to build libjpeg only as a shared library, say
  
  ```
  ./configure --disable-static
  ```

  Configure uses GNU libtool to take care of system-dependent shared library building methods.

* Configure will use gcc (GNU C compiler) if it's available, otherwise cc. To force a particular compiler to be selected, use the CC option, for example
  
  ```
  ./configure CC='cc'
  ```

  The same method can be used to include any unusual compiler switches. For example, on HP-UX you probably want to say
  
  ```
  ./configure CC='cc -Aa'
  ```

  to get HP's compiler to run in ANSI mode.

* The default CFLAGS setting is "-g" for non-gcc compilers, "-g -O2" for gcc. You can override this by saying, for example,
  
  ```
  ./configure CFLAGS='-O2'
  ```

  if you want to compile without debugging support.

* Configure will set up the makefile so that "make install" will install files into /usr/local/bin, /usr/local/man, etc. You can specify an installation prefix other than "/usr/local" by giving configure the option "--prefix=PATH".

* If you don't have a lot of swap space, you may need to enable the IJG software's internal virtual memory mechanism. To do this, give the option "--enable-maxmem=N" where N is the default maxmemory limit in megabytes. This is discussed in more detail under "Selecting a memory manager", below. You probably don't need to worry about this on reasonably-sized Unix machines, unless you plan to process very large images.

Configure has some other features that are useful if you are cross-compiling
or working in a network of multiple machine types; but if you need those features, you probably already know how to use them.

Configuring the software using one of the supplied jconfig and makefile files
---------------------------------------------------------------

If you have one of these systems, you can just use the provided configuration files:

Makefile jconfig file System and/or compiler

makefile.manxjconfig.manxAmiga, Manx Aztec C
makefile.sasjconfig.sasAmiga, SAS C
makeproj.macjconfig.macApple Macintosh, Metrowerks CodeWarrior
mak*jpeg.stjconfig.stAtari ST/STE/TT, Pure C or Turbo C
makefile.bccjconfig.bccMS-DOS or OS/2, Borland C
makefile.djconfig.djMS-DOS, DJGPP (Delorie's port of GNU C)
makefile.mcsjconfig.mcs6MS-DOS, Microsoft C (16-bit only)
makefile.watjconfig.watMS-DOS, OS/2, or Windows NT, Watcom C
makefile.vcjconfig.vcWindows, MS Visual C++
makefile.vsijconfig.vsWindows, MS Visual C++ 6 Developer Studio
make*.vc6
makefile.vsijconfig.vcWindows, Visual Studio 2019 Version 16
make*.v16
makefile.vsijconfig.vcWindows, Visual Studio 2022 Version 17
make*.v16
make*.v17
makefile.b32jconfig.vcWindows, Borland C++ 32-bit (bcc32)
makefile.mmsjconfig.vmsDigital VMS, with MMS software
makefile.vmsjconfig.vmsDigital VMS, without MMS software

Copy the proper jconfig file to jconfig.h and the makefile to Makefile (or whatever your system uses as the standard makefile name). For more info see the appropriate system-specific hints section near the end of this file.

Configuring the software by hand
---------------------------------

First, generate a jconfig.h file. If you are moderately familiar with C, the comments in jconfig.txt should be enough information to do this; just copy jconfig.txt to jconfig.h and edit it appropriately. Otherwise, you may prefer to use the ckconfig.c program. You will need to compile and execute ckconfig.c by hand --- we hope you know at least enough to do that. ckconfig.c may not compile the first try (in fact, the whole idea is for it to fail if anything is going to). If you get compile errors, fix them by editing ckconfig.c according to the directions given in ckconfig.c. Once
you get it to run, it will write a suitable jconfig.h file, and will also
print out some advice about which makefile to use.

You may also want to look at the canned jconfig files, if there is one for a
system similar to yours.

Second, select a makefile and copy it to Makefile (or whatever your system
uses as the standard makefile name). The most generic makefiles we provide
are
makefile.ansi: if your C compiler supports function prototypes
makefile.unix: if not.
(You have function prototypes if ckconfig.c put "#define HAVE_PROTOTYPES"
in jconfig.h.) You may want to start from one of the other makefiles if
there is one for a system similar to yours.

Look over the selected Makefile and adjust options as needed. In particular
you may want to change the CC and CFLAGS definitions. For instance, if you
are using GCC, set CC=gcc. If you had to use any compiler switches to get
ckconfig.c to work, make sure the same switches are in CFLAGS.

If you are on a system that doesn't use makefiles, you'll need to set up
project files (or whatever you do use) to compile all the source files and
link them into executable files cjpeg, djpeg, jpegtran, rdjpgcom, and wrjpgcom.
See the file lists in any of the makefiles to find out which files go into
each program. Note that the provided makefiles all make a "library" file
libjpeg first, but you don't have to do that if you don't want to; the file
lists identify which source files are actually needed for compression,
decompression, or both. As a last resort, you can make a batch script that
just compiles everything and links it all together; makefile.vms is an example
of this (it's for VMS systems that have no make-like utility).

Here are comments about some specific configuration decisions you'll
need to make:

Command line style
-------------------

These programs can use a Unix-like command line style which supports
redirection and piping, like this:
cjpeg inputfile >outputfile
cjpeg <inputfile >outputfile
source program | cjpeg >outputfile
The simpler "two file" command line style is just
cjpeg inputfile outputfile
You may prefer the two-file style, particularly if you don't have pipes.

You MUST use two-file style on any system that doesn't cope well with binary
data fed through stdin/stdout; this is true for some MS-DOS compilers, for
example. If you're not on a Unix system, it's safest to assume you need
two-file style. (But if your compiler provides either the Posix-standard
fdopen() library routine or a Microsoft-compatible setmode() routine, you
can safely use the Unix command line style, by defining USE_FDOOPEN or
USE_SETMODE respectively.)

To use the two-file style, make jconfig.h say "#define TWO_FILE_COMMANDLINE".

Selecting a memory manager
-----------------------------

The IJG code is capable of working on images that are too big to fit in main
memory; data is swapped out to temporary files as necessary. However, the
code to do this is rather system-dependent. We provide five different
memory managers:

* jmemansi.c This version uses the ANSI-standard library routine tmpfile(),
which not all non-ANSI systems have. On some systems
tmpfile() may put the temporary file in a non-optimal
location; if you don't like what it does, use jmemname.c.

* jmemname.c This version creates named temporary files. For anything
except a Unix machine, you'll need to configure the
select_file_name() routine appropriately; see the comments
near the head of jmemname.c. If you use this version, define
NEED_SIGNAL_CATCHER in jconfig.h to make sure the temp files
are removed if the program is aborted.

* jmemnobs.c (That stands for No Backing Store :-). This will compile on
almost any system, but it assumes you have enough main memory
or virtual memory to hold the biggest images you work with.

* jmemdos.c This should be used with most 16-bit MS-DOS compilers.
See the system-specific notes about MS-DOS for more info.
IMPORTANT: if you use this, define USE_MSDOS_MEMMGR in
jconfig.h, and include the assembly file jmemdosa.asm in the
programs. The supplied makefiles and jconfig files for
16-bit MS-DOS compilers already do both.

* jmemmac.c Custom version for Apple Macintosh; see the system-specific
notes for Macintosh for more info.

To use a particular memory manager, change the SYSDEPMEM variable in your
makefile to equal the corresponding object file name (for example, jmemansi.o
or jmemansi.obj for jmemansi.c).

If you have plenty of (real or virtual) main memory, just use jmemnobs.c.
"Plenty" means about ten bytes for every pixel in the largest images
you plan to process, so a lot of systems don't meet this criterion.
If yours doesn't, try jmemansi.c first. If that doesn't compile, you'll have
to use jmemname.c; be sure to adjust select_file_name() for local conditions.
You may also need to change unlink() to remove() in close_backing_store().

Except with jmemnobs.c or jmemmac.c, you need to adjust the DEFAULT_MAX_MEM
setting to a reasonable value for your system (either by adding a #define for
DEFAULT_MAX_MEM to jconfig.h, or by adding a -D switch to the Makefile).
This value limits the amount of data space the program will attempt to
allocate. Code and static data space isn't counted, so the actual memory
needs for cjpegs or djpegs are typically 100 to 150Kb more than the max-memory
setting. Larger max-memory settings reduce the amount of I/O needed to
process a large image, but too large a value can result in "insufficient
memory" failures. On most Unix machines (and other systems with virtual
memory), just set DEFAULT_MAX_MEM to several million and forget it. At the
other end of the spectrum, for MS-DOS machines you probably can't go much
above 300K to 400K. (On MS-DOS the value refers to conventional memory only.
Extended/expanded memory is handled separately by jmemdos.c.)

BUILDING THE SOFTWARE
======================

Now you should be able to compile the software. Just say "make" (or
whatever's necessary to start the compilation). Have a cup of coffee.

Here are some things that could go wrong:

If your compiler complains about undefined structures, you should be able to
shut it up by putting "#define INCOMPLETE_TYPES_BROKEN" in jconfig.h.

If you have trouble with missing system include files or inclusion of the
wrong ones, read jinclude.h. This shouldn't happen if you used configure
or ckconfig.c to set up jconfig.h.

There are a fair number of routines that do not use all of their parameters;
some compilers will issue warnings about this, which you can ignore. There
are also a few configuration checks that may give "unreachable code" warnings.
Any other warning deserves investigation.

If you don't have a getenv() library routine, define NO_GETENV.

Also see the system-specific hints, below.

TESTING THE SOFTWARE
======================

Open Source Used In Cisco Cloud Mailbox Defense -CMD (Project Raptor) April 2021 618
As a quick test of functionality we've included a small sample image in several forms:

testorig.jpg Starting point for the djpeg tests.
testorig.ppm The output of djpeg testorig.jpg

testorig.gif The output of djpeg -gif testorig.jpg

testorig.bmp The output of djpeg -bmp -colors 256 testorig.jpg

testorig.jpg The output of djpeg testorig.ppm

testorigp.jpg Progressive-mode equivalent of testorig.jpg.
testorigp.bmp The output of djpeg -progressive -optimize testorig.ppm

(The first- and second-generation .jpg files aren't identical since the default compression parameters are lossy.) If you can generate duplicates of the testorig* files then you probably have working programs.

With most of the makefiles, "make test" will perform the necessary comparisons.

If you're using a makefile that doesn't provide the test option, run djpeg and cjjpeg by hand and compare the output files to testorig* with whatever binary file comparison tool you have. The files should be bit-for-bit identical.

If the programs complain "MAX_ALLOC_CHUNK is wrong, please fix", then you need to reduce MAX_ALLOC_CHUNK to a value that fits in type size_t.
Try adding "#define MAX_ALLOC_CHUNK 65520L" to jconfig.h. A less likely configuration error is "ALIGN_TYPE is wrong, please fix": defining ALIGN_TYPE as long should take care of that one.

If the cjjpeg test run fails with "Missing Huffman code table entry", it's a good bet that you needed to define RIGHT_SHIFT_IS_UNSIGNED. Go back to the configuration step and run ckconfig.c. (This is a good plan for any other test failure, too.)

If you are using Unix (one-file) command line style on a non-Unix system, it's a good idea to check that binary I/O through stdin/stdout actually works. You should get the same results from "djpeg <testorig.jpg >out.ppm" as from "djpeg -outfile out.ppm testorig.jpg". Note that the makefiles all use the latter style and therefore do not exercise stdin/stdout! If this check fails, try recompiling with USE_SETMODE or USE_FDOPEN defined. If it still doesn't work, better use two-file style.

If you chose a memory manager other than jmemnobs.c, you should test that temporary-file usage works. Try "djpeg -bmp -colors 256 -max 0 testorig.jpg" and make sure its output matches testimg.bmp. If you have any really large images handy, try compressing them with -optimize and/or decompressing with -colors 256 to make sure your DEFAULT_MAX_MEM setting is not too large.

NOTE: this is far from an exhaustive test of the JPEG software; some modules, such as 1-pass color quantization, are not exercised at all. It's just a
quick test to give you some confidence that you haven't missed something major.

INSTALLING THE SOFTWARE
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Once you're done with the above steps, you can install the software by copying the executable files (cjpeg, djpeg, jpegtran, rdjpgcom, and wrjpgcom) to wherever you normally install programs. On Unix systems, you'll also want to put the man pages (cjpeg.1, djpeg.1, jpegtran.1, rdjpgcom.1, wrjpgcom.1) in the man-page directory. The pre-fab makefiles don't support this step since there's such a wide variety of installation procedures on different systems.

If you generated a Makefile with the "configure" script, you can just say make install to install the programs and their man pages into the standard places. (You'll probably need to be root to do this.) We recommend first saying make -n install to see where configure thought the files should go. You may need to edit the Makefile, particularly if your system's conventions for man page filenames don't match what configure expects.

If you want to install the IJG library itself, for use in compiling other programs besides ours, then you need to put the four include files jpeglib.h jerror.h jconfig.h jmorecfg.h into your include-file directory, and put the library file libjpeg.a (extension may vary depending on system) wherever library files go. If you generated a Makefile with "configure", it will do what it thinks is the right thing if you say make install-lib

OPTIONAL STUFF
=============

Progress monitor:

If you like, you can #define PROGRESS_REPORT (in jconfig.h) to enable display of percent-done progress reports. The routine provided in cdjpeg.c merely prints percentages to stderr, but you can customize it to do something fancier.

Utah RLE file format support:

We distribute the software with support for RLE image files (Utah Raster Toolkit format) disabled, because the RLE support won't compile without the
Utah library. If you have URT version 3.1 or later, you can enable RLE support as follows:

1. `#define RLE_SUPPORTED` in `jconfig.h`.
2. Add `-I` option to `CFLAGS` in the Makefile for the directory containing the URT `.h` files (typically the "include" subdirectory of the URT distribution).
3. Add `-L... -lrle` to `LDLIBS` in the Makefile, where `...` specifies the directory containing the URT "librle.a" file (typically the "lib" subdirectory of the URT distribution).

Support for 9-bit to 12-bit deep pixel data:

The IJG code currently allows 8, 9, 10, 11, or 12 bits sample data precision. (For color, this means 8 to 12 bits per channel, of course.) If you need to work with deeper than 8-bit data, you can compile the IJG code for 9-bit to 12-bit operation.

To do so:

1. In `jmorecfg.h`, define `BITS_IN_JSAMPLE` as 9, 10, 11, or 12 rather than 8.
2. In `jconfig.h`, undefine `BMP_SUPPORTED`, `RLE_SUPPORTED`, and `TARGA_SUPPORTED`, because the code for those formats doesn't handle deeper than 8-bit data and won't even compile. (The PPM code does work, as explained below. The GIF code works too; it scales 8-bit GIF data to and from 12-bit depth automatically.)
3. Compile. Don't expect "make test" to pass, since the supplied test files are for 8-bit data.

Currently, 9-bit to 12-bit support does not work on 16-bit-int machines.

Run-time selection and conversion of data precision are currently not supported and may be added later. Exception: The transcoding part (`jpegtran`) supports all settings in a single instance, since it operates on the level of DCT coefficients and not sample values.

The PPM reader (`rdppm.c`) can read deeper than 8-bit data from either text-format or binary-format PPM and PGM files. Binary-format PPM/PGM files which have a `maxval` greater than 255 are assumed to use 2 bytes per sample, MSB first (big-endian order). As of early 1995, 2-byte binary format is not officially supported by the PBMPLUS library, but it is expected that a future release of PBMPLUS will support it. Note that the PPM reader will read files of any `maxval` regardless of the `BITS_IN_JSAMPLE` setting; incoming data is automatically rescaled to `maxval=MAXJSAMPLE` as appropriate for the cjpeg bit depth.

The PPM writer (`wrppm.c`) will normally write 2-byte binary PPM or PGM format, `maxval=MAXJSAMPLE`, when compiled with `BITS_IN_JSAMPLE>8`. Since this format is not yet widely supported, you can disable it by compiling `wrppm.c` with `PPM_NORAWWORD` defined; then the data is scaled down to 8 bits to make a
standard 1-byte/sample PPM or PGM file. (Yes, this means still another copy of djpeg to keep around. But hopefully you won't need it for very long. Poskanzer's supposed to get that new PBPLUS release out Real Soon Now.)

Of course, if you are working with 9-bit to 12-bit data, you probably have it stored in some other, nonstandard format. In that case you'll probably want to write your own I/O modules to read and write your format.

Note:
The standard Huffman tables are only valid for 8-bit data precision. If you selected more than 8-bit data precision, cjpeg uses arithmetic coding by default. The Huffman encoder normally uses entropy optimization to compute usable tables for higher precision. Otherwise, you'll have to supply different default Huffman tables.

Removing code:

If you need to make a smaller version of the JPEG software, some optional functions can be removed at compile time. See the xxx_SUPPORTED #defines in jconfig.h and jmorecfg.h. If at all possible, we recommend that you leave in decoder support for all valid JPEG files, to ensure that you can read anyone's output. Taking out support for image file formats that you don't use is the most painless way to make the programs smaller. Another possibility is to remove some of the DCT methods: in particular, the "IFAST" method may not be enough faster than the others to be worth keeping on your machine. (If you do remove ISLOW or IFAST, be sure to redefine JDCT_DEFAULT or JDCT_FASTEST to a supported method, by adding a #define in jconfig.h.)

OPTIMIZATION
============

Unless you own a Cray, you'll probably be interested in making the JPEG software go as fast as possible. This section covers some machine-dependent optimizations you may want to try. We suggest that before trying any of this, you first get the basic installation to pass the self-test step. Repeat the self-test after any optimization to make sure that you haven't broken anything.

The integer DCT routines perform a lot of multiplications. These multiplications must yield 32-bit results, but none of their input values are more than 16 bits wide. On many machines, notably the 680x0 and 80x86 CPUs, a 16x16=>32 bit multiply instruction is faster than a full 32x32=>32 bit multiply. Unfortunately there is no portable way to specify such a multiplication in C, but some compilers can generate one when you use the right combination of casts. See the MULTIPLYxxx macro definitions in jdct.h. If your compiler makes "int" be 32 bits and "short" be 16 bits, defining SHORTxSHORT_32 is fairly likely to work. When experimenting with
alternate definitions, be sure to test not only whether the code still works (use the self-test), but also whether it is actually faster --- on some compilers, alternate definitions may compute the right answer, yet be slower than the default. Timing cjpeg on a large PGM (grayscale) input file is the best way to check this, as the DCT will be the largest fraction of the runtime in that mode. (Note: some of the distributed compiler-specific jconfig files already contain #define switches to select appropriate MULTIPLYxxx definitions.)

If your machine has sufficiently fast floating point hardware, you may find that the float DCT method is faster than the integer DCT methods, even after tweaking the integer multiply macros. In that case you may want to make the float DCT be the default method. (The only objection to this is that float DCT results may vary slightly across machines.) To do that, add "#define JDCT_DEFAULT JDCT_FLOAT" to jconfig.h. Even if you don't change the default, you should redefine JDCT_FASTEST, which is the method selected by djpeg's -fast switch. Don't forget to update the documentation files (usage.txt and/or cjpeg.1, djpeg.1) to agree with what you've done.

If access to "short" arrays is slow on your machine, it may be a win to define type JCOEF as int rather than short. This will cost a good deal of memory though, particularly in some multi-pass modes, so don't do it unless you have memory to burn and short is REALLY slow.

If your compiler can compile function calls in-line, make sure the INLINE macro in jmorecfg.h is defined as the keyword that marks a function inline-able. Some compilers have a switch that tells the compiler to inline any function it thinks is profitable (e.g., -finline-functions for gcc). Enabling such a switch is likely to make the compiled code bigger but faster.

In general, it's worth trying the maximum optimization level of your compiler, and experimenting with any optional optimizations such as loop unrolling. (Unfortunately, far too many compilers have optimizer bugs ... be prepared to back off if the code fails self-test.) If you do any experimentation along these lines, please report the optimal settings to jpeg-info@jpegclub.org so we can mention them in future releases. Be sure to specify your machine and compiler version.

HINTS FOR SPECIFIC SYSTEMS
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We welcome reports on changes needed for systems not mentioned here. Submit 'em to jpeg-info@jpegclub.org. Also, if configure or ckconfig.c is wrong about how to configure the JPEG software for your system, please let us know.

Acorn RISC OS:
(Thanks to Simon Middleton for these hints on compiling with Desktop C.)

After renaming the files according to Acorn conventions, take a copy of makefile.ansi, change all occurrences of 'libjpeg.a' to 'libjpeg.o' and change these definitions as indicated:

CFLAGS= -throwback -IC: -Wn
LDLIBS=C:o.Stubs
SYSDEPMEM=jmemansi.o
LN=Link
AR=LibFile -c -o

Also add a new line '.c.o:; $(cc) $< $(cflags) -c -o $@'. Remove the lines '$(RM) libjpeg.o' and '$(AR2) libjpeg.o' and the 'jconfig.h' dependency section.

Copy jconfig.txt to jconfig.h. Edit jconfig.h to define TWO_FILE_COMMANDLINE and CHAR_IS_UNSIGNED.

Run the makefile using !AMU not !Make. If you want to use the 'clean' and 'test' makefile entries then you will have to fiddle with the syntax a bit and rename the test files.

Amiga:

SAS C 6.50 reportedly is too buggy to compile the IJG code properly. A patch to update to 6.51 is available from SAS or AmiNet FTP sites.

The supplied config files are set up to use jmemname.c as the memory manager, with temporary files being created on the device named by "JPEGTMP:"

Atari ST/STE/TT:

Copy the project files makcjpeg.st, makdjpeg.st, maktjpeg.st, and makljpeg.st to cjpeg.prj, djpeg.prj, jpegtran.prj, and libjpeg.prj respectively. The project files should work as-is with Pure C. For Turbo C, change library filenames "pc..." to "tc..." in each project file. Note that libjpeg.prj selects jmemansi.c as the recommended memory manager. You'll probably want to adjust the DEFAULT_MAX_MEM setting -- you want it to be a couple hundred K less than your normal free memory. Put "#define DEFAULT_MAX_MEM mnnn" into jconfig.h to do this.

To use the 68881/68882 coprocessor for the floating point DCT, add the compiler option "+8" to the project files and replace pcfltlib.lib with pc881lib.lib in cjpeg.prj and djpeg.prj. Or if you don't have a
coprocessor, you may prefer to remove the float DCT code by undefining DCT_FLOAT_SUPPORTED in jmorecfg.h (since without a coprocessor, the float code will be too slow to be useful). In that case, you can delete pcfltlib.lib from the project files.

Note that you must make libjpeg.lib before making cjpeg.ttp, djpeg.ttp, or jpegtran.ttp. You'll have to perform the self-test by hand.

We haven't bothered to include project files for rdjpgcom and wrjpgcom. Those source files should just be compiled by themselves; they don't depend on the JPEG library. You can use the default.prj project file of the Pure C distribution to make the programs.

There is a bug in some older versions of the Turbo C library which causes the space used by temporary files created with "tmpfile()" not to be freed after an abnormal program exit. If you check your disk afterwards, you will find cluster chains that are allocated but not used by a file. This should not happen in cjpeg/djepg/jpegtran, since we enable a signal catcher to explicitly close temp files before exiting. But if you use the JPEG library with your own code, be sure to supply a signal catcher, or else use a different system-dependent memory manager.

Cray:

Should you be so fortunate as to be running JPEG on a Cray YMP, there is a compiler bug in old versions of Cray's Standard C (prior to 3.1). If you still have an old compiler, you'll need to insert a line reading
"#pragma nvector" just before the loop
   for (i = 1; i <= (int) htbl->bits[l]; i++)
       huffsize[p++] = (char) l;
in fix_huff_tbl (in V5beta1, line 204 of jchuff.c and line 176 of jdhuff.c). [This bug may or may not still occur with the current IJG code, but it's probably a dead issue anyway...]

HP-UX:

If you have HP-UX 7.05 or later with the "software development" C compiler, you should run the compiler in ANSI mode. If using the configure script, say
./configure CC='cc -Aa'
(or -Ae if you prefer). If configuring by hand, use makefile.ansi and add "-Aa" to the CFLAGS line in the makefile.

If you have a pre-7.05 system, or if you are using the non-ANSI C compiler delivered with a minimum HP-UX system, then you must use makefile.unix (and do NOT add -Aa); or just run configure without the CC option.
On HP 9000 series 800 machines, the HP C compiler is buggy in revisions prior to A.08.07. If you get complaints about "not a typedef name", you'll have to use makefile.unix, or run configure without the CC option.

Macintosh, generic comments:

The supplied user-interface files (cjpeg.c, djpeg.c, etc) are set up to provide a Unix-style command line interface. You can use this interface on the Mac by means of the ccommand() library routine provided by Metrowerks CodeWarrior or Think C. This is only appropriate for testing the library, however; to make a user-friendly equivalent of cjpeg/djpeg you'd really want to develop a Mac-style user interface. There isn't a complete example available at the moment, but there are some helpful starting points:
1. Sam Bushell's free "To JPEG" applet provides drag-and-drop conversion to JPEG under System 7 and later. This only illustrates how to use the compression half of the library, but it does a very nice job of that part.
2. Jim Brunner prepared a Mac-style user interface for both compression and decompression. Unfortunately, it hasn't been updated since IJG v4, and the library's API has changed considerably since then. Still it may be of some help, particularly as a guide to compiling the IJG code under Think C. Jim's code is available from the Info-Mac archives, at sumex-aim.stanford.edu or mirrors thereof; see file /info-mac/dev/src/jpeg-convert-c.hqx.

jmemmac.c is the recommended memory manager back end for Macintosh. It uses NewPtr/DisposePtr instead of malloc/free, and has a Mac-specific implementation of jpeg_mem_available(). It also creates temporary files that follow Mac conventions. (That part of the code relies on System-7-or-later OS functions. See the comments in jmemmac.c if you need to run it on System 6.) NOTE that USE_MAC_MEMMGR must be defined in jconfig.h to use jmemmac.c.

You can also use jmemnobs.c, if you don't care about handling images larger than available memory. If you use any memory manager back end other than jmemmac.c, we recommend replacing "malloc" and "free" by "NewPtr" and "DisposePtr", because Mac C libraries often have peculiar implementations of malloc/free. (For instance, free() may not return the freed space to the Mac Memory Manager. This is undesirable for the IJG code because jmemmgr.c already clumps space requests.)

Macintosh, Metrowerks CodeWarrior:

The Unix-command-line-style interface can be used by defining USE_CCOMMAND. You'll also need to define TWO_FILE_COMMANDLINE to avoid stdin/stdout. This means that when using the cjpeg/djpeg programs, you'll have to type the input and output file names in the "Arguments" text-edit box, rather than
using the file radio buttons. (Perhaps USE_FDOPEN or USE_SETMODE would eliminate the problem, but I haven't heard from anyone who's tried it.)

On 680x0 Macs, Metrowerks defines type "double" as a 10-byte IEEE extended float. jmemmgr.c won't like this: it wants sizeof(ALIGN_TYPE) to be a power of 2. Add "#define ALIGN_TYPE long" to jconfig.h to eliminate the complaint.

The supplied configuration file jconfig.mac can be used for your jconfig.h; it includes all the recommended symbol definitions. If you have AppleScript installed, you can run the supplied script makeproj.mac to create CodeWarrior project files for the library and the testbed applications, then build the library and applications. (Thanks to Dan Sears and Don Agro for this nifty hack, which saves us from trying to maintain CodeWarrior project files as part of the IJG distribution...)

Macintosh, Think C:

The documentation in Jim Brunner's "JPEG Convert" source code (see above) includes detailed build instructions for Think C; it's probably somewhat out of date for the current release, but may be helpful.

If you want to build the minimal command line version, proceed as follows. You'll have to prepare project files for the programs; we don't include any in the distribution since they are not text files. Use the file lists in any of the supplied makefiles as a guide. Also add the ANSI and Unix C libraries in a separate segment. You may need to divide the JPEG files into more than one segment; we recommend dividing compression and decompression modules. Define USE_CCOMMAND in jconfig.h so that the ccommand() routine is called. You must also define TWO_FILE_COMMANDLINE because stdin/stdout don't handle binary data correctly.

On 680x0 Macs, Think C defines type "double" as a 12-byte IEEE extended float. jmemmgr.c won't like this: it wants sizeof(ALIGN_TYPE) to be a power of 2. Add "#define ALIGN_TYPE long" to jconfig.h to eliminate the complaint.

jconfig.mac should work as a jconfig.h configuration file for Think C, but the makeproj.mac AppleScript script is specific to CodeWarrior. Sorry.

MIPS R3000:

MIPS's cc version 1.31 has a rather nasty optimization bug. Don't use -O if you have that compiler version. (Use "cc -V" to check the version.) Note that the R3000 chip is found in workstations from DEC and others.

MS-DOS, generic comments for 16-bit compilers:
The IJG code is designed to work well in 80x86 "small" or "medium" memory models (i.e., data pointers are 16 bits unless explicitly declared "far"; code pointers can be either size). You may be able to use small model to compile cjpeg or djpeg by itself, but you will probably have to use medium model for any larger application. This won't make much difference in performance. You *will* take a noticeable performance hit if you use a large-data memory model, and you should avoid "huge" model if at all possible. Be sure that NEED_FAR_POINTERS is defined in jconfig.h if you use a small-data memory model; be sure it is NOT defined if you use a large-data model. (The supplied makefiles and jconfig files for Borland and Microsoft C compile in medium model and define NEED_FAR_POINTERS.)

The DOS-specific memory manager, jmemdos.c, should be used if possible. It needs some assembly-code routines which are in jmemdosa.asm; make sure your makefile assembles that file and includes it in the library. If you don't have a suitable assembler, you can get pre-assembled object files for jmemdosa by FTP from ftp.uu.net:/graphics/jpeg/jdosaobj.zip. (DOS-oriented distributions of the IJG source code often include these object files.) When using jmemdos.c, jconfig.h must define USE_MSDOS_MEMMGR and must set MAX_ALLOC_CHUNK to less than 64K (65520L is a typical value). If your C library's far-heap malloc() can't allocate blocks that large, reduce MAX_ALLOC_CHUNK to whatever it can handle.

If you can't use jmemdos.c for some reason --- for example, because you don't have an assembler to assemble jmemdosa.asm --- you'll have to fall back to jmemansi.c or jmemname.c. You'll probably still need to set MAX_ALLOC_CHUNK in jconfig.h, because most DOS C libraries won't malloc() more than 64K at a time. IMPORTANT: if you use jmemansi.c or jmemname.c, you will have to compile in a large-data memory model in order to get the right stdio library. Too bad.

wrjpgcom needs to be compiled in large model, because it malloc()s a 64KB work area to hold the comment text. If your C library's malloc can't handle that, reduce MAX_COM_LENGTH as necessary in wrjpgcom.c.

Most MS-DOS compilers treat stdin/stdout as text files, so you must use two-file command line style. But if your compiler has either fdopen() or setmode(), you can use one-file style if you like. To do this, define USE_SETMODE or USE_FDOPEN so that stdin/stdout will be set to binary mode. (USE_SETMODE seems to work with more DOS compilers than USE_FDOPEN.) You should test that I/O through stdin/stdout produces the same results as I/O to explicitly named files... the "make test" procedures in the supplied makefiles do NOT use stdin/stdout.

MS-DOS, generic comments for 32-bit compilers:
None of the above comments about memory models apply if you are using a 32-bit flat-memory-space environment, such as DJGPP or Watcom C. (And you should use one if you have it, as performance will be much better than 8086-compatible code!) For flat-memory-space compilers, do NOT define NEED_FAR_POINTERS, and do NOT use jmemdos.c. Use jmemnobs.c if the environment supplies adequate virtual memory, otherwise use jmemansi.c or jmemname.c.

You'll still need to be careful about binary I/O through stdin/stdout. See the last paragraph of the previous section.

**MS-DOS, Borland C:**

Be sure to convert all the source files to DOS text format (CR/LF newlines). Although Borland C will often work OK with unmodified Unix (LF newlines) source files, sometimes it will give bogus compile errors. "Illegal character '#'" is the most common such error. (This is true with Borland C 3.1, but perhaps is fixed in newer releases.)

If you want one-file command line style, just undefine TWO_FILE_COMMANDLINE. jconfig.bcc already includes #define USE_SETMODE to make this work. (fdopen does not work correctly.)

**MS-DOS, Microsoft C:**

makefile.mc6 works with Microsoft C, DOS Visual C++, etc. It should only be used if you want to build a 16-bit (small or medium memory model) program.

If you want one-file command line style, just undefine TWO_FILE_COMMANDLINE. jconfig.mc6 already includes #define USE_SETMODE to make this work. (fdopen does not work correctly.)

Note that this makefile assumes that the working copy of itself is called "makefile". If you want to call it something else, say "makefile.mak", be sure to adjust the dependency line that reads "$(RFILE) : makefile". Otherwise the make will fail because it doesn't know how to create "makefile". Worse, some releases of Microsoft's make utilities give an incorrect error message in this situation.

Old versions of MS C fail with an "out of macro expansion space" error because they can't cope with the macro TRACEMS8 (defined in jerror.h). If this happens to you, the easiest solution is to change TRACEMS8 to expand to nothing. You'll lose the ability to dump out JPEG coefficient tables with djpeg -debug -debug, but at least you can compile.
Original MS C 6.0 is very buggy; it compiles incorrect code unless you turn off optimization entirely (remove -O from CFLAGS). 6.00A is better, but it still generates bad code if you enable loop optimizations (-Ol or -Ox).

MS C 8.0 crashes when compiling jquant1.c with optimization switch /Oo ... which is on by default. To work around this bug, compile that one file with /Oo-.

Microsoft Windows (all versions), generic comments:

Some Windows system include files define typedef boolean as "unsigned char". The IJG code also defines typedef boolean, but we make it an "enum" by default. This doesn't affect the IJG programs because we don't import those Windows include files. But if you use the JPEG library in your own program, and some of your program's files import one definition of boolean while some import the other, you can get all sorts of mysterious problems. A good preventive step is to make the IJG library use "unsigned char" for boolean. To do that, add something like this to your jconfig.h file:

```c
/* Define "boolean" as unsigned char, not enum, per Windows custom */
#ifndef __RPCNDR_H__	/* don't conflict if rpcndr.h already read */
typedef unsigned char boolean;
#endif
#ifndef FALSE	/* in case these macros already exist */
#define FALSE	0	/* values of boolean */
#endif
#ifndef TRUE
#define TRUE	1
#endif
#define HAVE_BOOLEAN	/* prevent jmorecfg.h from redefining it */
(This is already in jconfig.vc, by the way.)
```

`windef.h` contains the declarations

```c
#define far
#define FAR far
```

Since `jmorecfg.h` tries to define FAR as empty, you may get a compiler warning if you include both `jpeglib.h` and `windef.h` (which `windows.h` includes). To suppress the warning, you can put "#ifndef FAR"/"#endif" around the line "#define FAR" in `jmorecfg.h`.

(Something like this is already in `jmorecfg.h`, by the way.)

When using the library in a Windows application, you will almost certainly want to modify or replace the error handler module `jerror.c`, since our default error handler does a couple of inappropriate things:

1. it tries to write error and warning messages on stderr;
2. in event of a fatal error, it exits by calling `exit()`.

A simple stopgap solution for problem 1 is to replace the line
fprintf(stderr, "%s\n", buffer);
(in output_message in jerror.c) with
MessageBox(GetActiveWindow(),buffer,"JPEG Error",MB_OK|MB_ICONERROR);
It's highly recommended that you at least do that much, since otherwise
error messages will disappear into nowhere.  (Beginning with IJG v6b, this
code is already present in jerror.c; just define USE_WINDOWS_MESSAGEBOX in
jconfig.h to enable it.)

The proper solution for problem 2 is to return control to your calling
application after a library error.  This can be done with the setjmp/longjmp
technique discussed in libjpeg.txt and illustrated in example.c.  (NOTE:
some older Windows C compilers provide versions of setjmp/longjmp that
don't actually work under Windows.  You may need to use the Windows system
functions Catch and Throw instead.)

The recommended memory manager under Windows is jmemnobs.c; in other words,
let Windows do any virtual memory management needed.  You should NOT use
jmemdos.c nor jmemdosa.asm under Windows.

For Windows 3.1, we recommend compiling in medium or large memory model;
for newer Windows versions, use a 32-bit flat memory model.  (See the MS-DOS
sections above for more info about memory models.)  In the 16-bit memory
models only, you'll need to put
#define MAX_ALLOC_CHUNK 65520L/* Maximum request to malloc() */
into jconfig.h to limit allocation chunks to 64Kb.  (Without that, you'd
have to use huge memory model, which slows things down unnecessarily.)
jmemnobs.c works without modification in large or flat memory models, but to
use medium model, you need to modify its jpeg_get_large and jpeg_free_large
routines to allocate far memory.  In any case, you might like to replace
its calls to malloc and free with direct calls on Windows memory allocation
functions.

You may also want to modify jdatasrc.c and jdatadst.c to use Windows file
operations rather than fread/fwrite.  This is only necessary if your C
compiler doesn't provide a competent implementation of C stdio functions.

You might want to tweak the RGB_xxx macros in jmorecfg.h so that the library
will accept or deliver color pixels in BGR sample order, not RGB; BGR order
is usually more convenient under Windows.  Note that this change will break
the sample applications cjpeg/djpeg, but the library itself works fine.

Many people want to convert the IJG library into a DLL.  This is reasonably
straightforward, but watch out for the following:

1. Don't try to compile as a DLL in small or medium memory model; use
large model, or even better, 32-bit flat model.  Many places in the IJG code
assume the address of a local variable is an ordinary (not FAR) pointer;
that isn't true in a medium-model DLL.

2. Microsoft C cannot pass file pointers between applications and DLLs. (See Microsoft Knowledge Base, PSS ID Number Q50336.) So jdatasrc.c and jdatadst.c don't work if you open a file in your application and then pass the pointer to the DLL. One workaround is to make jdatasrc.c/jdatadst.c part of your main application rather than part of the DLL.

3. You'll probably need to modify the macros GLOBAL() and EXTERN() to attach suitable linkage keywords to the exported routine names. Similarly, you'll want to modify METHODDEF() and JMETHOD() to ensure function pointers are declared in a way that lets application routines be called back through the function pointers. These macros are in jmorecfg.h. Typical definitions for a 16-bit DLL are:

```c
#define GLOBAL(type) type _far _pascal _loadds _export
#define EXTERN(type) extern type _far _pascal _loadds
#define METHODDEF(type) static type _far _pascal
#define JMETHOD(type, methodname, arglist) static type _far _pascal
```

For a 32-bit DLL you may want something like:

```c
#define GLOBAL(type) __declspec(dllexport) type
#define EXTERN(type) extern __declspec(dllexport) type
```

Although not all the GLOBAL routines are actually intended to be called by the application, the performance cost of making them all DLL entry points is negligible.

The unmodified IJG library presents a very C-specific application interface, so the resulting DLL is only usable from C or C++ applications. There has been some talk of writing wrapper code that would present a simpler interface usable from other languages, such as Visual Basic. This is on our to-do list but hasn't been very high priority --- any volunteers out there?

Microsoft Windows, Borland C:

The provided jconfig.bcc should work OK in a 32-bit Windows environment, but you'll need to tweak it in a 16-bit environment (you'd need to define NEED_FAR_POINTERS and MAX_ALLOC_CHUNK). Beware that makefile.bcc will need alteration if you want to use it for Windows --- in particular, you should use jmennobs.c not jmemdos.c under Windows.

Borland C++ 4.5 fails with an internal compiler error when trying to compile jdmerge.c in 32-bit mode. If enough people complain, perhaps Borland will fix it. In the meantime, the simplest known workaround is to add a redundant definition of the variable range_limit in h2v1_merged_upsample(), at the head of the block that handles odd image width (about line 268 in v6 jdmerge.c):

```c
/* If image width is odd, do the last output column separately */
if (cinfo->output_width & 1) {
```
register JSAMPLE * range_limit = cinfo->sample_range_limit; /* ADD THIS */
cb = GETJSAMPLE(*inptr1);

Pretty bizarre, especially since the very similar routine h2v2_merged_upsample
doesn't trigger the bug.
Recent reports suggest that this bug does not occur with "bcc32a" (the
Pentium-optimized version of the compiler).

Another report from a user of Borland C 4.5 was that incorrect code (leading
to a color shift in processed images) was produced if any of the following
optimization switch combinations were used:
-Ot -Og
-Ot -Op
-Ot -Om
So try backing off on optimization if you see such a problem. (Are there
several different releases all numbered "4.5"??)

Microsoft Windows, Microsoft Visual C++:

jconfig.vc should work OK with any Microsoft compiler for a 32-bit memory
model. makefile.vc is intended for command-line use. (If you are using
the Developer Studio environment, you may prefer the DevStudio project
files; see below.)

IJG JPEG 7 adds extern "C" to jpeglib.h. This avoids the need to put
extern "C" { ... } around #include "jpeglib.h" in your C++ application.
You can also force VC++ to treat the library as C++ code by renaming
all the *.c files to *.cpp (and adjusting the makefile to match).
In this case you also need to define the symbol DONT_USE_EXTERN_C in
the configuration to prevent jpeglib.h from using extern "C".

Microsoft Windows, Microsoft Visual C++ 6 Developer Studio:

We include makefiles that should work as project files in Developer Studio
6.0 or later. There is a library makefile that builds the IJG library as
a static Win32 library, and application makefiles that build the sample
applications as Win32 console applications. (Even if you only want the
library, we recommend building the applications so that you can run the
self-test.)

To use:
1. Open the Windows Command Prompt, change to the source directory and
execute the command line
nmake /f makefile.vs setup-vc6
If you get an error message saying that the "nmake" command could
not be found, execute the command
"%ProgramFiles%\Microsoft Visual Studio\VC98\Bin\VCVARS32"
to set the environment for using Microsoft Visual C++ tools, and repeat the nmake call. This will move jconfig.vc to jconfig.h and makefiles to project files. (Note that the renaming is critical!) Alternatively you can use

```
nmake /f makefile.vs setup-copy-vc6
```

This will create renamed copies of the files, which allows to repeat the setup later.

2. Open the workspace file jpeg.dsw, build the library project. (If you are using Developer Studio more recent than 6.0, you'll probably get a message saying that the project files are being updated.)

3. Open the workspace file apps.dsw, build the application projects.

4. To perform the self-test, execute the command line

```
nmake /f makefile.vs test-build
```

5. Move the application .exe files from the Release folder to an appropriate location on your path.

Microsoft Windows, Visual Studio 2019 Version 16:

We include makefiles that should work as project files in Visual Studio 2019 Version 16 or later. There is a library makefile that builds the IJG library as a static Win32/x64/ARM/ARM64 library, and application makefiles that build the sample applications as Win32/x64/ARM/ARM64 console applications. (Even if you only want the library, we recommend building the applications so that you can run the self-test.)

To use:

1. Ensure you've checked the item "Desktop development with C++" in the Workloads tab of Visual Studio Installer. Open the Developer Command Prompt for VS 2019, change to the source directory and execute the command line

```
nmake /f makefile.vs setup-v16
```

This will move jconfig.vc to jconfig.h and makefiles to project files. (Note that the renaming is critical!) Alternatively you can use

```
nmake /f makefile.vs setup-copy-v16
```

This will create renamed copies of the files, which allows to repeat the setup later.

2. Open the solution file jpeg.sln, build the library project.

a) If you are using Visual Studio more recent than 2019 Version 16, you'll probably get a message saying that the project files are being updated.

b) If necessary, open the project properties and adapt the Windows Target Platform Version in the Configuration Properties, General section; we support the latest version at the time of release.

c) If you get a warning saying that a platform cannot be found,
you can either
  * forgo the platform and ignore the warning, or
  * remove the platform in the Configuration Manager, or
  * install the corresponding platform Buildtools in
    Visual Studio Installer (Workloads tab Optional components
    or Individual components tab).

  d) If you want to build x64 code, change the platform setting from
  Win32 to x64. You can build Win32 and x64 versions side by side.

e) If you want to build ARM/ARM64 code, change the platform setting
to ARM/ARM64. Ensure you've installed the ARM/ARM64-Buildtools
in Visual Studio Installer (Workloads tab Optional components
or Individual components tab).

You can build Win32/x64/ARM/ARM64 versions side by side.
3. Open the solution file apps.sln, build the application projects.
4. To perform the self-test, execute the command line
nmake /f makefile.vs test-32
   for the Win32 build, or on a 64-bit system
nmake /f makefile.vs test-64
   for the x64 build.
5. Move the application .exe files from the Release folder to an
   appropriate location on your path.

Microsoft Windows, Visual Studio 2022 Version 17:

We include makefiles that should work as project files in Visual Studio
2022 Version 17 or later. There is a library makefile that builds the
IJG library as a static Win32/x64/ARM/ARM64 library, and application
makefiles that build the sample applications as Win32/x64/ARM/ARM64
close applications. (Even if you only want the library, we recommend
building the applications so that you can run the self-test.)

To use:
1. Ensure you've checked the item "Desktop development with C++" in the
   Workloads tab of Visual Studio Installer.
   Open the Developer Command Prompt for VS 2022, change to the source
directory and execute the command line
nmake /f makefile.vs setup-v17
   This will move jconfig.vc to jconfig.h and makefiles to project files.
   (Note that the renaming is critical!)
   Alternatively you can use
nmake /f makefile.vs setupcopy-v17
   This will create renamed copies of the files, which allows to repeat
   the setup later.
2. Open the solution file jpeg.sln, build the library project.
   a) If you are using Visual Studio more recent than
   2022 Version 17, you'll probably get a message
   saying that the project files are being updated.
b) If necessary, open the project properties and adapt the Windows Target Platform Version in the Configuration Properties, General section; we support the latest version at the time of release.
c) If you get a warning saying that a platform cannot be found, you can either
   * forgo the platform and ignore the warning, or
   * remove the platform in the Configuration Manager, or
   * install the corresponding platform Buildtools in Visual Studio Installer (Workloads tab Optional components or Individual components tab).
d) If you want to build x64 code, change the platform setting from Win32 to x64. You can build Win32 and x64 versions side by side.
e) If you want to build ARM/ARM64 code, change the platform setting to ARM/ARM64. Ensure you've installed the ARM/ARM64-Buildtools in Visual Studio Installer (Workloads tab Optional components or Individual components tab). You can build Win32/x64/ARM/ARM64 versions side by side.
3. Open the solution file apps.sln, build the application projects.
4. To perform the self-test, execute the command line
   nmake /f makefile.vs test-32
   for the Win32 build, or on a 64-bit system
   nmake /f makefile.vs test-64
   for the x64 build.
5. Move the application .exe files from the Release folder to an appropriate location on your path.

OS/2, Borland C++:

Watch out for optimization bugs in older Borland compilers; you may need to back off the optimization switch settings. See the comments in makefile.bcc.

SGI:

On some SGI systems, you may need to set "AR2= ar -ts" in the Makefile. If you are using configure, you can do this by saying
./configure RANLIB='ar -ts'
This change is not needed on all SGIs. Use it only if the make fails at the stage of linking the completed programs.

On the MIPS R4000 architecture (Indy, etc.), the compiler option "-mips2" reportedly speeds up the float DCT method substantially, enough to make it faster than the default int method (but still slower than the fast int method). If you use -mips2, you may want to alter the default DCT method to be float. To do this, put "#define JDCT_DEFAULT JDCT_FLOAT" in jconfig.h.
VMS:

On an Alpha/VMS system with MMS, be sure to use the "/Marco=Alpha=1" qualifier with MMS when building the JPEG package.

VAX/VMS v5.5-1 may have problems with the test step of the build procedure reporting differences when it compares the original and test images. If the error points to the last block of the files, it is most likely bogus and may be safely ignored. It seems to be because the files are Stream_LF and Backup/Compare has difficulty with the (presumably) null padded files. This problem was not observed on VAX/VMS v6.1 or AXP/VMS v6.1.

Found in path(s):
* /opt/cola/permits/1150898704_1642531261.48/0/jpegsr9e-zip/jpeg-9e/install.txt
No license file was found, but licenses were detected in source scan.

/*
 * jquant2.c
 *
 * Copyright (C) 1991-1996, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains 2-pass color quantization (color mapping) routines.
 * These routines provide selection of a custom color map for an image,
 * followed by mapping of the image to that color map, with optional
 * Floyd-Steinberg dithering.
 * It is also possible to use just the second pass to map to an arbitrary
 * externally-given color map.
 *
 * Note: ordered dithering is not supported, since there isn't any fast
 * way to compute intercolor distances; it's unclear that ordered dither's
 * fundamental assumptions even hold with an irregularly spaced color map.
 */

Found in path(s):
* /opt/cola/permits/1150898704_1642531261.48/0/jpegsr9e-zip/jpeg-9e/jquant2.c
No license file was found, but licenses were detected in source scan.

/*
 * jcapistd.c
 *
 * Copyright (C) 1994-1996, Thomas G. Lane.
 * Modified 2013 by Guido Vollbeding.
 * This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
* 
* This file contains application interface code for the compression half
* of the JPEG library. These are the "standard" API routines that are
* used in the normal full-compression case. They are not used by a
* transcoding-only application. Note that if an application links in
* jpeg_start_compress, it will end up linking in the entire compressor.
* We thus must separate this file from jcapimin.c to avoid linking the
* whole compression library into a transcoder.
*/

Found in path(s):
* /opt/cola/permits/1150898704_1642531261.48/0/jpegsr9e-zip/jpeg-9e/jcapistd.c
No license file was found, but licenses were detected in source scan.

/ *
* jmainct.c
 *
* Copyright (C) 1994-1996, Thomas G. Lane.
* Modified 2002-2020 by Guido Vollbeding.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
* 
* This file contains the main buffer controller for decompression.
* The main buffer lies between the JPEG decompressor proper and the
* post-processor; it holds downsampled data in the JPEG colorspace.
* 
* Note that this code is bypassed in raw-data mode, since the application
* supplies the equivalent of the main buffer in that case.
*/

Found in path(s):
* /opt/cola/permits/1150898704_1642531261.48/0/jpegsr9e-zip/jpeg-9e/jmainct.c
No license file was found, but licenses were detected in source scan.

/ *
* jfdctint.c
 *
* Copyright (C) 1991-1996, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
* 
* This file contains a slow-but-accurate integer implementation of the
* forward DCT (Discrete Cosine Transform).
* 
* A 2-D DCT can be done by 1-D DCT on each row followed by 1-D DCT
* on each column. Direct algorithms are also available, but they are
* much more complex and seem not to be any faster when reduced to code.
* This implementation is based on an algorithm described in
* C. Loeffler, A. Ligtenberg and G. Moschytz, "Practical Fast 1-D DCT
* Algorithms with 11 Multiplications", Proc. Int'l. Conf. on Acoustics,
* The primary algorithm described there uses 11 multiplies and 29 adds.
* We use their alternate method with 12 multiplies and 32 adds.
* The advantage of this method is that no data path contains more than one
* multiplication; this allows a very simple and accurate implementation in
* scaled fixed-point arithmetic, with a minimal number of shifts.
* We also provide FDCT routines with various input sample block sizes for
* direct resolution reduction or enlargement and for direct resolving the
* common 2x1 and 1x2 subsampling cases without additional resampling: NxN
* (N=1...16), 2NxN, and Nx2N (N=1...8) pixels for one 8x8 output DCT block.
* For N<8 we fill the remaining block coefficients with zero.
* For N>8 we apply a partial N-point FDCT on the input samples, computing
* just the lower 8 frequency coefficients and discarding the rest.
* We must scale the output coefficients of the N-point FDCT appropriately
* to the standard 8-point FDCT level by 8/N per 1-D pass. This scaling
* is folded into the constant multipliers (pass 2) and/or final/initial
* shifting.
* CAUTION: We rely on the FIX() macro except for the N=1,2,4,8 cases
* since there would be too many additional constants to pre-calculate.
*/

Found in path(s):
* /opt/cola/permits/1150898704_1642531261.48/0/jpegsr9e-zip/jpeg-9e/jfdctint.c
No license file was found, but licenses were detected in source scan.

**IJG JPEG LIBRARY: ALTERNATE USER INTERFACE FOR CJPEG/DJPEG**

Copyright (C) 2020, Guido Vollbeding.
This file is part of the Independent JPEG Group's software.
For conditions of distribution and use, see the accompanying README file.

There is an alternate command-line user interface for the IJG JPEG software.
It is designed for use under MS-DOS, and may also be useful on other non-Unix
operating systems. (For that matter, this code works fine on Unix, but the
standard command-line syntax is better on Unix because it is pipe-friendly.)

With this interface, cjpeg and djpeg accept multiple input file names
on the command line; output file names are generated by substituting
appropriate extensions. The user is prompted before any already-existing file will be overwritten.

Expansion of wild-card file specifications is useful but is not directly provided by this code. Most DOS C compilers have the ability to do wild-card expansion "behind the scenes", and we rely on that feature. On other systems, the shell may do it for you, as is done on Unix.

Also, a DOS-specific routine is provided to determine available memory; this makes the -maxmemory switch unnecessary except in unusual cases. If you know how to determine available memory on a different system, you can easily add the necessary code. (And please send it along to jpeg-info@jpegclub.org so we can include it in future releases!)

INSTALLATION
============

Rename the standard cjpeg.c file to cjpegstd.c, then rename cjpegalt.c to cjpeg.c.
Rename the standard djpeg.c file to djpegstd.c, then rename djpegalt.c to djpegc.c.
Then build the software as described in install.txt, with these exceptions:

* Define PROGRESS_REPORT in jconfig.h if you want the percent-done display.
* Define NO_OVERWRITE_CHECK if you *don't* want overwrite confirmation.
* You may ignore the USE_SETMODE and TWO_FILE_COMMANDLINE symbols discussed in install.txt; these files do not use them.
* As given, djpegalt.c defaults to BMP output (not PPM output as in the standard djpeg.c). If you want something different, modify DEFAULT_FMT.

You may also need to do something special to enable filename wild-card expansion, assuming your compiler has that capability at all.

Modify the standard usage.txt file as described below. (If you want to use the Unix-style manual pages cjpeg.1 and djpeg.1, better fix them too.)

To restore the standard user interface:
Rename cjpeg.c to cjpegalt.c, then rename cjpegstd.c to cjpeg.c.
Rename djpeg.c to djpegalt.c, then rename djpegstd.c to djpegc.c.
Then recompile/rebuild.

Here are some specific notes for popular MS-DOS compilers:

Borland C:
Add "-DMDSOS" to CFLAGS to enable use of the DOS memory determination code.
Link with the standard library file WILDARGS.OBJ to get wild-card expansion.
Microsoft C:
Add "-DMDSOS" to CFLAGS to enable use of the DOS memory determination code.
Link with the standard library file SETARGV.OBJ to get wild-card expansion.
In the versions I've used, you must also add /NOE to the linker switches to avoid a duplicate-symbol error from including SETARGV.

DJGPP (we recommend version 2.0 or later):
Add "-DFREE_MEM_ESTIMATE=0" to CFLAGS. Wild-card expansion is automatic.

USAGE
=====

Most of the standard usage.txt file also applies to the alternate version, but replace its "GENERAL USAGE" section with the text below. Edit the text as necessary if you don't support wildcards or overwrite checking. Be sure to fix the djpeg switch descriptions if you are not defaulting to PPM output. Also, if you've provided an accurate memory-estimation procedure, you can probably eliminate the HINTS related to the -maxmemory switch.

GENERAL USAGE

We provide two programs, cjpeg to compress an image file into JPEG format, and djjpeg to decompress a JPEG file back into a conventional image format.

The basic command line is:
cjpeg [switches] list of image files
or
djpeg [switches] list of jpeg files

Each file named is compressed or decompressed. The input file(s) are not modified; the output data is written to files which have the same names except for extension. cjpeg always uses ".jpg" for the output file name's extension; djjpeg uses one of ".bmp", ".gif", ".ppm", ".rle", or ".tga", depending on what output format is selected by the switches.

For example, to convert xxx.bmp to xxx.jpg and yyy.ppm to yyy.jpg, say:
cjpeg xxx.bmp yyy.ppm
You can intermix switches and file names; for example
djpeg -gif file1.jpg -targa file2.jpg
decompresses file1.jpg into GIF format (file1.gif) and file2.jpg into Targa format (file2.tga). Only switches to the left of a given file name affect processing of that file; when there are conflicting switches, the rightmost one takes precedence.

You can override the program's choice of output file name by using the
-outfile switch, as in
cjpeg -outfile output.jpg input.ppm
-outfile only affects the first input file name to its right.

The currently supported image file formats are: PPM (PBMPPLUS color format),
PGM (PBMPPLUS grayscale format), BMP, GIF, Targa, and RLE (Utah Raster Toolkit format). (RLE is supported only if the URT library is available, which it isn't on most non-Unix systems.) cjpeg recognizes the input image format automatically, with the exception of some Targa-format files. You have to tell djpeg which format to generate.

JPEG files are in the standard JFIF file format. There are other, less widely used JPEG-based file formats, but we don't support them.

All switch names may be abbreviated; for example, -grayscale may be written -gray or -gr. Most of the "basic" switches can be abbreviated to as little as one letter. Upper and lower case are equivalent (-BMP is the same as -bmp). British spellings are also accepted (e.g., -greyscale), though for brevity these are not mentioned below.

Found in path(s):
*/opt/cola/permits/1150898704_1642531261.48/0/jpegsr9e-zip/jpeg-9e/cdaltui.txt
No license file was found, but licenses were detected in source scan.

/*
 * jerror.h
 *
 * Copyright (C) 1994-1997, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file defines the error and message codes for the JPEG library.
 * Edit this file to add new codes, or to translate the message strings to
 * some other language.
 * A set of error-reporting macros are defined too. Some applications using
 * the JPEG library may wish to include this file to get the error codes
 * and/or the macros.
 */
No license file was found, but licenses were detected in source scan.

/*
 * jddctmgr.c
 *
 * Copyright (C) 1994-1996, Thomas G. Lane.
 * Modified 2002-2013 by Guido Vollbeding.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 * 
 * This file contains the inverse-DCT management logic.
 * This code selects a particular IDCT implementation to be used,
 * and it performs related housekeeping chores. No code in this file
 * is executed per IDCT step, only during output pass setup.
 * 
 * Note that the IDCT routines are responsible for performing coefficient
 * dequantization as well as the IDCT proper. This module sets up the
 * dequantization multiplier table needed by the IDCT routine.
 */

No license file was found, but licenses were detected in source scan.

/*
 * jversion.h
 *
 * Copyright (C) 1991-2022, Thomas G. Lane, Guido Vollbeding.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 * 
 * This file contains software version identification.
 */

No license file was found, but licenses were detected in source scan.

/*
 * jctrans.c
 *
 * Copyright (C) 1995-1998, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 */
This file contains library routines for transcoding compression, that is, writing raw DCT coefficient arrays to an output JPEG file. The routines in jcamin.c will also be needed by a transcoder.

Found in path(s):
* /opt/cola/permits/1150898704_1642531261.48/0/jpegsr9e-0jpeg-9e/jctrans.c
No license file was found, but licenses were detected in source scan.

/*
 * jdarith.c
 *
 * Developed 1997-2020 by Guido Vollbeding.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains portable arithmetic entropy decoding routines for JPEG
 *
 * Both sequential and progressive modes are supported in this single module.
 *
 * Suspension is not currently supported in this module.
 */

Found in path(s):
* /opt/cola/permits/1150898704_1642531261.48/0/jpegsr9e-0jpeg-9e/jdarith.c
No license file was found, but licenses were detected in source scan.

/*
 * jidctfst.c
 *
 * Copyright (C) 1994-1998, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains a fast, not so accurate integer implementation of the
 * inverse DCT (Discrete Cosine Transform). In the IJG code, this routine
 * must also perform dequantization of the input coefficients.
 *
 * A 2-D IDCT can be done by 1-D IDCT on each column followed by 1-D IDCT
 * on each row (or vice versa, but it's more convenient to emit a row at
 * a time). Direct algorithms are also available, but they are much more
 * complex and seem not to be any faster when reduced to code.
 *
 * This implementation is based on Arai, Agui, and Nakajima's algorithm for
 * scaled DCT. Their original paper (Trans. IEICE E-71(11):1095) is in
* Japanese, but the algorithm is described in the Pennebaker & Mitchell
  JPEG textbook (see REFERENCES section in file README). The following code
  is based directly on figure 4-8 in P&M.
* While an 8-point DCT cannot be done in less than 11 multiplies, it is
  possible to arrange the computation so that many of the multiplies are
  simple scalings of the final outputs. These multiplies can then be
  folded into the multiplications or divisions by the JPEG quantization
  table entries. The AA&N method leaves only 5 multiplies and 29 adds
  to be done in the DCT itself.
* The primary disadvantage of this method is that with fixed-point math,
  accuracy is lost due to imprecise representation of the scaled
  quantization values. The smaller the quantization table entry, the less
  precise the scaled value, so this implementation does worse with high-
  quality-setting files than with low-quality ones.
*/

Found in path(s):
* /opt/cola/permits/1150898704_1642531261.48/0/jpegsr9e-zip/jpeg-9e/jidctfst.c
No license file was found, but licenses were detected in source scan.

/*
 * jmemansi.c
 *
 * Copyright (C) 1992-1996, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file provides a simple generic implementation of the system-
 * dependent portion of the JPEG memory manager. This implementation
 * assumes that you have the ANSI-standard library routine tmpfile().
 * Also, the problem of determining the amount of memory available
 * is shoved onto the user.
 */

Found in path(s):
* /opt/cola/permits/1150898704_1642531261.48/0/jpegsr9e-zip/jpeg-9e/jmemansi.c
No license file was found, but licenses were detected in source scan.

/*
 * jpeglib.h
 *
 * Copyright (C) 1991-1998, Thomas G. Lane.
 * Modified 2002-2020 by Guido Vollbeding.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file defines the application interface for the JPEG library.
 * Most applications using the library need only include this file,
* and perhaps jerror.h if they want to know the exact error codes.
*/

Found in path(s):
* /opt/cola/permits/1150898704_1642531261.48/0/jpegsr9e-zip/jpeg-9e/jpeglib.h
No license file was found, but licenses were detected in source scan.

/*
 * jdapistd.c
 *
 * Copyright (C) 1994-1996, Thomas G. Lane.
 * Modified 2002-2013 by Guido Vollbeding.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains application interface code for the decompression half
 * of the JPEG library.  These are the "standard" API routines that are
 * used in the normal full-decompression case.  They are not used by a
 * transcoding-only application.  Note that if an application links in
 * jpeg_start_decompress, it will end up linking in the entire decompressor.
 * We thus must separate this file from jdapimin.c to avoid linking the
 * whole decompression library into a transcoder.
 */

Found in path(s):
* /opt/cola/permits/1150898704_1642531261.48/0/jpegsr9e-zip/jpeg-9e/jdapistd.c
No license file was found, but licenses were detected in source scan.

/*
 * jdatadst.c
 *
 * Copyright (C) 1994-1996, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains compression data destination routines for the case of
 * emitting JPEG data to memory or to a file (or any stdio stream).
 * While these routines are sufficient for most applications,
 * some will want to use a different destination manager.
 * IMPORTANT: we assume that fwrite() will correctly transcribe an array of
 * JOCTETs into 8-bit-wide elements on external storage.  If char is wider
 * than 8 bits on your machine, you may need to do some tweaking.
 */

Found in path(s):
* /opt/cola/permits/1150898704_1642531261.48/0/jpegsr9e-zip/jpeg-9e/jdatadst.c
No license file was found, but licenses were detected in source scan.

/*
 * jdcolor.c
 * Copyright (C) 1991-1997, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains output colorspace conversion routines.
 */

Found in path(s):
* /opt/cola/permits/1150898704_1642531261.48/0/jpegsr9e-zip/jpeg-9e/jdcolor.c
No license file was found, but licenses were detected in source scan.

/*
 * jutils.c
 * Copyright (C) 1991-1996, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains tables and miscellaneous utility routines needed
 * for both compression and decompression.
 * Note we prefix all global names with "j" to minimize conflicts with
 * a surrounding application.
 */

Found in path(s):
* /opt/cola/permits/1150898704_1642531261.48/0/jpegsr9e-zip/jpeg-9e/jutils.c
No license file was found, but licenses were detected in source scan.

/*
 * cderror.h
 * Copyright (C) 1994-1997, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file defines the error and message codes for the cjpeg/djpeg
 * applications. These strings are not needed as part of the JPEG library
 * proper.
 * Edit this file to add new codes, or to translate the message strings to
 * some other language.
*/
Found in path(s):
* /opt/cola/permits/1150898704_1642531261.48/0/jpegsr9e-zip/jpeg-9e/cderror.h
No license file was found, but licenses were detected in source scan.

*/
* jcparam.c
*
* Copyright (C) 1991-1998, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
* This file contains optional default-setting code for the JPEG compressor.
* Applications do not have to use this file, but those that don't use it
* must know a lot more about the innards of the JPEG code.
*/

Found in path(s):
* /opt/cola/permits/1150898704_1642531261.48/0/jpegsr9e-zip/jpeg-9e/jcparam.c
No license file was found, but licenses were detected in source scan.

*/
* jdct.h
*
* Copyright (C) 1994-1996, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This include file contains common declarations for the forward and
* inverse DCT modules. These declarations are private to the DCT managers
* (jcdctmgr.c, jddctmgr.c) and the individual DCT algorithms.
* The individual DCT algorithms are kept in separate files to ease
* machine-dependent tuning (e.g., assembly coding).
*/

Found in path(s):
* /opt/cola/permits/1150898704_1642531261.48/0/jpegsr9e-zip/jpeg-9e/jdct.h
No license file was found, but licenses were detected in source scan.

*/
* alternate djpeg.c
*
* Copyright (C) 1991-1997, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
For conditions of distribution and use, see the accompanying README file.

This file contains an alternate user interface for the JPEG decompressor.
One or more input files are named on the command line, and output file
names are created by substituting an appropriate extension.

Found in path(s):
* /opt/cola/permits/1150898704_1642531261.48/0/jpegsr9e-zip/jpeg-9e/djpegalt.c
No license file was found, but licenses were detected in source scan.

*/

*/
* cdjpeg.h
*
* Copyright (C) 1994-1997, Thomas G. Lane.
* Modified 2019 by Guido Vollbeding.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
* *
* This file contains common declarations for the sample applications
* cjpeg and djpeg. It is NOT used by the core JPEG library.
*/

Found in path(s):
* /opt/cola/permits/1150898704_1642531261.48/0/jpegsr9e-zip/jpeg-9e/cdjpeg.h
No license file was found, but licenses were detected in source scan.

*/
* transupp.c
*
* Copyright (C) 1997-2019, Thomas G. Lane, Guido Vollbeding.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
* *
* This file contains image transformation routines and other utility code
* used by the jpegtran sample application. These are NOT part of the core
* JPEG library. But we keep these routines separate from jpegtran.c to
* ease the task of maintaining jpegtran-like programs that have other user
* interfaces.
*/

Found in path(s):
* /opt/cola/permits/1150898704_1642531261.48/0/jpegsr9e-zip/jpeg-9e/transupp.c
No license file was found, but licenses were detected in source scan.

*/
* jcinit.c
*
* Copyright (C) 1991-1997, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
* 
* This file contains initialization logic for the JPEG compressor.
* This routine is in charge of selecting the modules to be executed and
* making an initialization call to each one.
* 
* Logically, this code belongs in jcmaster.c. It's split out because
* linking this routine implies linking the entire compression library.
* For a transcoding-only application, we want to be able to use jcmaster.c
* without linking in the whole library.
*/

Found in path(s):
* /opt/cola/permits/1150898704_1642531261.48/0/jpegsr9e-zip/jpeg-9e/jcinit.c

No license file was found, but licenses were detected in source scan.

/*
 * rdcolmap.c
 *
 * Copyright (C) 1994-1996, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file implements djpeg's "-map file" switch. It reads a source image
 * and constructs a colormap to be supplied to the JPEG decompressor.
 *
 * Currently, these file formats are supported for the map file:
 * GIF: the contents of the GIF's global colormap are used.
 * PPM (either text or raw flavor): the entire file is read and
 * each unique pixel value is entered in the map.
 * Note that reading a large PPM file will be horrendously slow.
 * Typically, a PPM-format map file should contain just one pixel
 * of each desired color. Such a file can be extracted from an
 * ordinary image PPM file with ppmtomap(1).
 *
 * Rescaling a PPM that has a maxval unequal to MAXJSAMPLE is not
 * currently implemented.
 */

/* Portions of this code are based on the PBMPLUS library, which is:
 ** Copyright (C) 1988 by Jef Poskanzer.
 **
 ** Permission to use, copy, modify, and distribute this software and its
 ** documentation for any purpose and without fee is hereby granted, provided
 ** that the above copyright notice appear in all copies and that both that

---

Open Source Used In Cisco Cloud Mailbox Defense -CMD (Project Raptor) April 2021 650
** copyright notice and this permission notice appear in supporting
** documentation. This software is provided "as is" without express or
** implied warranty.
*/

Found in path(s):
* /opt/cola/permits/1150898704_1642531261.48/0/jpegsr9e-zip/jpeg-9e/rdcolmap.c
No license file was found, but licenses were detected in source scan.

USING THE IJG JPEG LIBRARY

Copyright (C) 1994-2019, Thomas G. Lane, Guido Vollbeding.
This file is part of the Independent JPEG Group's software.
For conditions of distribution and use, see the accompanying README file.

This file describes how to use the IJG JPEG library within an application
program. Read it if you want to write a program that uses the library.

The file example.c provides heavily commented skeleton code for calling the
JPEG library. Also see jpeglib.h (the include file to be used by application
programs) for full details about data structures and function parameter lists.
The library source code, of course, is the ultimate reference.

Note that there have been *major* changes from the application interface
presented by IJG version 4 and earlier versions. The old design had several
inherent limitations, and it had accumulated a lot of cruft as we added
features while trying to minimize application-interface changes. We have
sacrificed backward compatibility in the version 5 rewrite, but we think the
improvements justify this.

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You should read at least the overview and basic usage sections before trying to program with the library. The sections on advanced features can be read if and when you need them.

OVERVIEW
========

Functions provided by the library
---------------------------------

The IJG JPEG library provides C code to read and write JPEG-compressed image files. The surrounding application program receives or supplies image data a scanline at a time, using a straightforward uncompressed image format. All details of color conversion and other preprocessing/postprocessing can be handled by the library.

The library includes a substantial amount of code that is not covered by the JPEG standard but is necessary for typical applications of JPEG. These functions preprocess the image before JPEG compression or postprocess it after decompression. They include colorspace conversion, downsampling/upsampling, and color quantization. The application indirectly selects use of this code by specifying the format in which it wishes to supply or receive image data. For example, if colormapped output is requested, then the decompression library automatically invokes color quantization.

A wide range of quality vs. speed tradeoffs are possible in JPEG processing, and even more so in decompression postprocessing. The decompression library provides multiple implementations that cover most of the useful tradeoffs, ranging from very-high-quality down to fast-preview operation. On the compression side we have generally not provided low-quality choices, since compression is normally less time-critical. It should be understood that the low-quality modes may not meet the JPEG standard's accuracy requirements;
nonetheless, they are useful for viewers.

A word about functions *not* provided by the library. We handle a subset of the ISO JPEG standard; most baseline, extended-sequential, and progressive JPEG processes are supported. (Our subset includes all features now in common use.) Unsupported ISO options include:

* Hierarchical storage
* Lossless JPEG
* DNL marker
* Nonintegral subsampling ratios

We support 8-bit to 12-bit data precision, but this is a compile-time choice rather than a run-time choice; hence it is difficult to use different precisions in a single application.

By itself, the library handles only interchange JPEG datastreams --- in particular the widely used JFIF file format. The library can be used by surrounding code to process interchange or abbreviated JPEG datastreams that are embedded in more complex file formats. (For example, this library is used by the free LIBTIFF library to support JPEG compression in TIFF.)

Outline of typical usage
------------------------

The rough outline of a JPEG compression operation is:

Allocate and initialize a JPEG compression object
Specify the destination for the compressed data (eg, a file)
Set parameters for compression, including image size & colorspace
jpeg_start_compress(...);
while (scan lines remain to be written)
jpeg_write_scanlines(...);
jpeg_finish_compress(...);
Release the JPEG compression object

A JPEG compression object holds parameters and working state for the JPEG library. We make creation/destruction of the object separate from starting or finishing compression of an image; the same object can be re-used for a series of image compression operations. This makes it easy to re-use the same parameter settings for a sequence of images. Re-use of a JPEG object also has important implications for processing abbreviated JPEG datastreams, as discussed later.

The image data to be compressed is supplied to jpeg_write_scanlines() from in-memory buffers. If the application is doing file-to-file compression, reading image data from the source file is the application's responsibility.

The library emits compressed data by calling a "data destination manager", which typically will write the data into a file; but the application can
provide its own destination manager to do something else.

Similarly, the rough outline of a JPEG decompression operation is:

Allocate and initialize a JPEG decompression object
Specify the source of the compressed data (eg, a file)
Call jpeg_read_header() to obtain image info
Set parameters for decompression
jpeg_start_decompress(...);
while (scan lines remain to be read)
jpeg_read_scanlines(...);
jpeg_finish_decompress(...);
Release the JPEG decompression object

This is comparable to the compression outline except that reading the
datastream header is a separate step. This is helpful because information
about the image's size, colorspace, etc is available when the application
selects decompression parameters. For example, the application can choose an
output scaling ratio that will fit the image into the available screen size.

The decompression library obtains compressed data by calling a data source
manager, which typically will read the data from a file; but other behaviors
can be obtained with a custom source manager. Decompressed data is delivered
into in-memory buffers passed to jpeg_read_scanlines().

It is possible to abort an incomplete compression or decompression operation
by calling jpeg_abort(); or, if you do not need to retain the JPEG object,
simply release it by calling jpeg_destroy().

JPEG compression and decompression objects are two separate struct types.
However, they share some common fields, and certain routines such as
jpeg_destroy() can work on either type of object.

The JPEG library has no static variables: all state is in the compression
or decompression object. Therefore it is possible to process multiple
compression and decompression operations concurrently, using multiple JPEG
objects.

Both compression and decompression can be done in an incremental memory-to-
memory fashion, if suitable source/destination managers are used. See the
section on "I/O suspension" for more details.

BASIC LIBRARY USAGE
====================

Data formats
----------
Before diving into procedural details, it is helpful to understand the image data format that the JPEG library expects or returns.

The standard input image format is a rectangular array of pixels, with each pixel having the same number of "component" or "sample" values (color channels). You must specify how many components there are and the colorspace interpretation of the components. Most applications will use RGB data (three components per pixel) or grayscale data (one component per pixel).

**PLEASE NOTE THAT RGB DATA IS THREE SAMPLES PER PIXEL, GRAYSCALE ONLY ONE.**

A remarkable number of people manage to miss this, only to find that their programs don't work with grayscale JPEG files.

There is no provision for colormapped input. JPEG files are always full-color or full grayscale (or sometimes another colorspace such as CMYK). You can feed in a colormapped image by expanding it to full-color format. However JPEG often doesn't work very well with source data that has been colormapped, because of dithering noise. This is discussed in more detail in the JPEG FAQ and the other references mentioned in the README file.

Pixels are stored by scanlines, with each scanline running from left to right. The component values for each pixel are adjacent in the row; for example, R,G,B,R,G,B,R,G,B,... for 24-bit RGB color. Each scanline is an array of data type JSAMPLE --- which is typically "unsigned char", unless you've changed jmorecfg.h. (You can also change the RGB pixel layout, say to B,G,R order, by modifying jmorecfg.h. But see the restrictions listed in that file before doing so.)

A 2-D array of pixels is formed by making a list of pointers to the starts of scanlines; so the scanlines need not be physically adjacent in memory. Even if you process just one scanline at a time, you must make a one-element pointer array to conform to this structure. Pointers to JSAMPLE rows are of type JSAMPROW, and the pointer to the pointer array is of type JSAMPARRAY.

The library accepts or supplies one or more complete scanlines per call. It is not possible to process part of a row at a time. Scanlines are always processed top-to-bottom. You can process an entire image in one call if you have it all in memory, but usually it's simplest to process one scanline at a time.

For best results, source data values should have the precision specified by BITS_IN_JSAMPLE (normally 8 bits). For instance, if you choose to compress data that's only 6 bits/channel, you should left-justify each value in a byte before passing it to the compressor. If you need to compress data that has more than 8 bits/channel, compile with BITS_IN_JSAMPLE = 9 to 12. (See "Library compile-time options", later.)
The data format returned by the decompressor is the same in all details, except that colormapped output is supported. (Again, a JPEG file is never colormapped. But you can ask the decompressor to perform on-the-fly color quantization to deliver colormapped output.) If you request colormapped output then the returned data array contains a single JSAMPLE per pixel; its value is an index into a color map. The color map is represented as a 2-D JSAMPARRAY in which each row holds the values of one color component, that is, colormap[i][j] is the value of the i'th color component for pixel value (map index) j. Note that since the colormap indexes are stored in JSAMPLEs, the maximum number of colors is limited by the size of JSAMPLE (ie, at most 256 colors for an 8-bit JPEG library).

Compression details
-------------------

Here we revisit the JPEG compression outline given in the overview.

1. Allocate and initialize a JPEG compression object.

A JPEG compression object is a "struct jpeg_compress_struct". (It also has a bunch of subsidiary structures which are allocated via malloc(), but the application doesn't control those directly.) This struct can be just a local variable in the calling routine, if a single routine is going to execute the whole JPEG compression sequence. Otherwise it can be static or allocated from malloc().

You will also need a structure representing a JPEG error handler. The part of this that the library cares about is a "struct jpeg_error_mgr". If you are providing your own error handler, you'll typically want to embed the jpeg_error_mgr struct in a larger structure; this is discussed later under "Error handling". For now we'll assume you are just using the default error handler. The default error handler will print JPEG error/warning messages on stderr, and it will call exit() if a fatal error occurs.

You must initialize the error handler structure, store a pointer to it into the JPEG object's "err" field, and then call jpeg_create_compress() to initialize the rest of the JPEG object.

Typical code for this step, if you are using the default error handler, is

    struct jpeg_compress_struct cinfo;
    struct jpeg_error_mgr jerr;
    ...
    cinfo.err = jpeg_std_error(&jerr);
    jpeg_create_compress(&cinfo);

    jpeg_create_compress allocates a small amount of memory, so it could fail
if you are out of memory. In that case it will exit via the error handler; that's why the error handler must be initialized first.

2. Specify the destination for the compressed data (eg, a file).

As previously mentioned, the JPEG library delivers compressed data to a "data destination" module. The library includes one data destination module which knows how to write to a stdio stream. You can use your own destination module if you want to do something else, as discussed later.

If you use the standard destination module, you must open the target stdio stream beforehand. Typical code for this step looks like:

```c
FILE * outfile;
...
if ((outfile = fopen(filename, "wb")) == NULL) {
   fprintf(stderr, "can't open %s\n", filename);
   exit(1);
}
jpeg_stdio_dest(&cinfo, outfile);
```

where the last line invokes the standard destination module.

WARNING: it is critical that the binary compressed data be delivered to the output file unchanged. On non-Unix systems the stdio library may perform newline translation or otherwise corrupt binary data. To suppress this behavior, you may need to use a "b" option to fopen (as shown above), or use setmode() or another routine to put the stdio stream in binary mode. See cjpeg.c and djpeg.c for code that has been found to work on many systems.

You can select the data destination after setting other parameters (step 3), if that's more convenient. You may not change the destination between calling jpeg_start_compress() and jpeg_finish_compress().

3. Set parameters for compression, including image size & colorspace.

You must supply information about the source image by setting the following fields in the JPEG object (cinfo structure):

- `image_width`: Width of image, in pixels
- `image_height`: Height of image, in pixels
- `input_components`: Number of color channels (samples per pixel)
- `in_color_space`: Color space of source image

The image dimensions are, hopefully, obvious. JPEG supports image dimensions of 1 to 64K pixels in either direction. The input color space is typically
RGB or grayscale, and input_components is 3 or 1 accordingly. (See "Special color spaces", later, for more info.) The in_color_space field must be assigned one of the J_COLOR_SPACE enum constants, typically JCS_RGB or JCS_GRAYSCALE.

JPEG has a large number of compression parameters that determine how the image is encoded. Most applications don't need or want to know about all these parameters. You can set all the parameters to reasonable defaults by calling jpeg_set_defaults(); then, if there are particular values you want to change, you can do so after that. The "Compression parameter selection" section tells about all the parameters.

You must set in_color_space correctly before calling jpeg_set_defaults(), because the defaults depend on the source image colorspace. However the other three source image parameters need not be valid until you call jpeg_start_compress(). There's no harm in calling jpeg_set_defaults() more than once, if that happens to be convenient.

Typical code for a 24-bit RGB source image is

```c
    cinfo.image_width = Width; /* image width and height, in pixels */
    cinfo.image_height = Height;
    cinfo.input_components = 3; /* # of color components per pixel */
    cinfo.in_color_space = JCS_RGB; /* colorspace of input image */

    jpeg_set_defaults(&cinfo);
    /* Make optional parameter settings here */
```

4. jpeg_start_compress(...);

After you have established the data destination and set all the necessary source image info and other parameters, call jpeg_start_compress() to begin a compression cycle. This will initialize internal state, allocate working storage, and emit the first few bytes of the JPEG datastream header.

Typical code:

```c
    jpeg_start_compress(&cinfo, TRUE);
```

The "TRUE" parameter ensures that a complete JPEG interchange datastream will be written. This is appropriate in most cases. If you think you might want to use an abbreviated datastream, read the section on abbreviated datastreams, below.

Once you have called jpeg_start_compress(), you may not alter any JPEG parameters or other fields of the JPEG object until you have completed the compression cycle.
5. while (scan lines remain to be written)
    jpeg_write_scanlines(...);

Now write all the required image data by calling jpeg_write_scanlines() one or more times. You can pass one or more scanlines in each call, up to the total image height. In most applications it is convenient to pass just one or a few scanlines at a time. The expected format for the passed data is discussed under "Data formats", above.

Image data should be written in top-to-bottom scanline order. The JPEG spec contains some weasel wording about how top and bottom are application-defined terms (a curious interpretation of the English language...) but if you want your files to be compatible with everyone else's, you WILL use top-to-bottom order. If the source data must be read in bottom-to-top order, you can use the JPEG library's virtual array mechanism to invert the data efficiently. Examples of this can be found in the sample application cjpeg.

The library maintains a count of the number of scanlines written so far in the next_scanline field of the JPEG object. Usually you can just use this variable as the loop counter, so that the loop test looks like "while (cinfo.next_scanline < cinfo.image_height)".

Code for this step depends heavily on the way that you store the source data. example.c shows the following code for the case of a full-size 2-D source array containing 3-byte RGB pixels:

```c
JSAMPROW row_pointer[1]; /* pointer to a single row */
int row_stride; /* physical row width in buffer */

row_stride = image_width * 3; /* JSAMPLEs per row in image_buffer */

while (cinfo.next_scanline < cinfo.image_height) {
    row_pointer[0] = & image_buffer[cinfo.next_scanline * row_stride];
    jpeg_write_scanlines(&cinfo, row_pointer, 1);
}
```

jpeg_write_scanlines() returns the number of scanlines actually written. This will normally be equal to the number passed in, so you can usually ignore the return value. It is different in just two cases:
* If you try to write more scanlines than the declared image height, the additional scanlines are ignored.
* If you use a suspending data destination manager, output buffer overrun will cause the compressor to return before accepting all the passed lines. This feature is discussed under "I/O suspension", below. The normal stdio destination manager will NOT cause this to happen.

In any case, the return value is the same as the change in the value of
next_scanline.

6. jpeg_finish_compress(...);

After all the image data has been written, call jpeg_finish_compress() to complete the compression cycle. This step is ESSENTIAL to ensure that the last bufferload of data is written to the data destination. jpeg_finish_compress() also releases working memory associated with the JPEG object.

Typical code:

jpeg_finish_compress(&cinfo);

If using the stdio destination manager, don't forget to close the output stdio stream (if necessary) afterwards.

If you have requested a multi-pass operating mode, such as Huffman code optimization, jpeg_finish_compress() will perform the additional passes using data buffered by the first pass. In this case jpeg_finish_compress() may take quite a while to complete. With the default compression parameters, this will not happen.

It is an error to call jpeg_finish_compress() before writing the necessary total number of scanlines. If you wish to abort compression, call jpeg_abort() as discussed below.

After completing a compression cycle, you may dispose of the JPEG object as discussed next, or you may use it to compress another image. In that case return to step 2, 3, or 4 as appropriate. If you do not change the destination manager, the new datastream will be written to the same target. If you do not change any JPEG parameters, the new datastream will be written with the same parameters as before. Note that you can change the input image dimensions freely between cycles, but if you change the input colorspace, you should call jpeg_set_defaults() to adjust for the new colorspace; and then you'll need to repeat all of step 3.

7. Release the JPEG compression object.

When you are done with a JPEG compression object, destroy it by calling jpeg_destroy_compress(). This will free all subsidiary memory (regardless of the previous state of the object). Or you can call jpeg_destroy(), which works for either compression or decompression objects --- this may be more convenient if you are sharing code between compression and decompression cases. (Actually, these routines are equivalent except for the declared type of the passed pointer. To avoid gripes from ANSI C compilers, jpeg_destroy()
should be passed a j_common_ptr.)

If you allocated the jpeg_compress_struct structure from malloc(), freeing it is your responsibility --- jpeg_destroy() won't. Ditto for the error handler structure.

Typical code:

jpeg_destroy_compress(&cinfo);

8. Aborting.

If you decide to abort a compression cycle before finishing, you can clean up in either of two ways:

* If you don't need the JPEG object any more, just call jpeg_destroy_compress() or jpeg_destroy() to release memory. This is legitimate at any point after calling jpeg_create_compress() --- in fact, it's safe even if jpeg_create_compress() fails.

* If you want to re-use the JPEG object, call jpeg_abort_compress(), or call jpeg_abort() which works on both compression and decompression objects. This will return the object to an idle state, releasing any working memory. jpeg_abort() is allowed at any time after successful object creation.

Note that cleaning up the data destination, if required, is your responsibility; neither of these routines will call term_destination(). (See "Compressed data handling", below, for more about that.)

jpeg_destroy() and jpeg_abort() are the only safe calls to make on a JPEG object that has reported an error by calling error_exit (see "Error handling" for more info). The internal state of such an object is likely to be out of whack. Either of these two routines will return the object to a known state.

Decompression details
----------------------

Here we revisit the JPEG decompression outline given in the overview.

1. Allocate and initialize a JPEG decompression object.

This is just like initialization for compression, as discussed above, except that the object is a "struct jpeg_decompress_struct" and you call jpeg_create_decompress(). Error handling is exactly the same.

Typical code:
struct jpeg_decompress_struct cinfo;
struct jpeg_error_mgr jerr;
...
cinfo.err = jpeg_std_error(&jerr);
jpeg_create_decompress(&cinfo);

(Both here and in the IJG code, we usually use variable name "cinfo" for both compression and decompression objects.)

2. Specify the source of the compressed data (eg, a file).

As previously mentioned, the JPEG library reads compressed data from a "data source" module. The library includes one data source module which knows how to read from a stdio stream. You can use your own source module if you want to do something else, as discussed later.

If you use the standard source module, you must open the source stdio stream beforehand. Typical code for this step looks like:

FILE * infile;
...
if ((infile = fopen(filename, "rb")) == NULL) {
    fprintf(stderr, "can't open %s\n", filename);
    exit(1);
}
jpeg_stdio_src(&cinfo, infile);

where the last line invokes the standard source module.

WARNING: it is critical that the binary compressed data be read unchanged. On non-Unix systems the stdio library may perform newline translation or otherwise corrupt binary data. To suppress this behavior, you may need to use a "b" option to fopen (as shown above), or use setmode() or another routine to put the stdio stream in binary mode. See cjpeg.c and djpeg.c for code that has been found to work on many systems.

You may not change the data source between calling jpeg_read_header() and jpeg_finish_decompress(). If you wish to read a series of JPEG images from a single source file, you should repeat the jpeg_read_header() to jpeg_finish_decompress() sequence without reinitializing either the JPEG object or the data source module; this prevents buffered input data from being discarded.

3. Call jpeg_read_header() to obtain image info.
Typical code for this step is just

```c
jpeg_read_header(&cinfo, TRUE);
```

This will read the source datastream header markers, up to the beginning of the compressed data proper. On return, the image dimensions and other info have been stored in the JPEG object. The application may wish to consult this information before selecting decompression parameters.

More complex code is necessary if

* A suspending data source is used --- in that case jpeg_read_header() may return before it has read all the header data. See "I/O suspension", below. The normal stdio source manager will NOT cause this to happen.
* Abbreviated JPEG files are to be processed --- see the section on abbreviated datastreams. Standard applications that deal only in interchange JPEG files need not be concerned with this case either.

It is permissible to stop at this point if you just wanted to find out the image dimensions and other header info for a JPEG file. In that case, call jpeg_destroy() when you are done with the JPEG object, or call jpeg_abort() to return it to an idle state before selecting a new data source and reading another header.

4. Set parameters for decompression.

```c
jpeg_read_header() sets appropriate default decompression parameters based on the properties of the image (in particular, its colorspace). However, you may well want to alter these defaults before beginning the decompression. For example, the default is to produce full color output from a color file. If you want colormapped output you must ask for it. Other options allow the returned image to be scaled and allow various speed/quality tradeoffs to be selected. "Decompression parameter selection", below, gives details.
```

If the defaults are appropriate, nothing need be done at this step.

Note that all default values are set by each call to jpeg_read_header(). If you reuse a decompression object, you cannot expect your parameter settings to be preserved across cycles, as you can for compression. You must set desired parameter values each time.

5. jpeg_start_decompress(...);

Once the parameter values are satisfactory, call jpeg_start_decompress() to begin decompression. This will initialize internal state, allocate working memory, and prepare for returning data.
Typical code is just

```
jpeg_start_decompress(&cinfo);
```

If you have requested a multi-pass operating mode, such as 2-pass color quantization, `jpeg_start_decompress()` will do everything needed before data output can begin. In this case `jpeg_start_decompress()` may take quite a while to complete. With a single-scan (non progressive) JPEG file and default decompression parameters, this will not happen; `jpeg_start_decompress()` will return quickly.

After this call, the final output image dimensions, including any requested scaling, are available in the JPEG object; so is the selected colormap, if colormapped output has been requested. Useful fields include:

- `output_width`: image width and height, as scaled
- `output_height`
- `out_color_components`: # of color components in `out_color_space`
- `output_components`: # of color components returned per pixel
- `colormap`: the selected colormap, if any
- `actual_number_of_colors`: number of entries in colormap

`output_components` is 1 (a colormap index) when quantizing colors; otherwise it equals `out_color_components`. It is the number of JSAMPLE values that will be emitted per pixel in the output arrays.

Typically you will need to allocate data buffers to hold the incoming image. You will need `output_width * output_components` JSAMPLEs per scanline in your output buffer, and a total of `output_height` scanlines will be returned.

Note: if you are using the JPEG library's internal memory manager to allocate data buffers (as djpeg does), then the manager's protocol requires that you request large buffers before calling `jpeg_start_decompress()`. This is a little tricky since the output_XXX fields are not normally valid then. You can make them valid by calling `jpeg_calc_output_dimensions()` after setting the relevant parameters (scaling, output color space, and quantization flag).

6. while (scan lines remain to be read)
   `jpeg_read_scanlines(...)`;

Now you can read the decompressed image data by calling `jpeg_read_scanlines()` one or more times. At each call, you pass in the maximum number of scanlines to be read (ie, the height of your working buffer); `jpeg_read_scanlines()` will return up to that many lines. The return value is the number of lines actually read. The format of the returned data is discussed under "Data formats", above. Don't forget that grayscale and color JPEGs will return different data formats!
Image data is returned in top-to-bottom scanline order. If you must write out the image in bottom-to-top order, you can use the JPEG library's virtual array mechanism to invert the data efficiently. Examples of this can be found in the sample application djpeg.

The library maintains a count of the number of scanlines returned so far in the output_scanline field of the JPEG object. Usually you can just use this variable as the loop counter, so that the loop test looks like "while (cinfo.output_scanline < cinfo.output_height)". (Note that the test should NOT be against image_height, unless you never use scaling. The image_height field is the height of the original unscaled image.)
The return value always equals the change in the value of output_scanline.

If you don't use a suspending data source, it is safe to assume that jpeg_read_scanlines() reads at least one scanline per call, until the bottom of the image has been reached.

If you use a buffer larger than one scanline, it is NOT safe to assume that jpeg_read_scanlines() fills it. (The current implementation returns only a few scanlines per call, no matter how large a buffer you pass.) So you must always provide a loop that calls jpeg_read_scanlines() repeatedly until the whole image has been read.

7. jpeg_finish_decompress(...);

After all the image data has been read, call jpeg_finish_decompress() to complete the decompression cycle. This causes working memory associated with the JPEG object to be released.

Typical code:

jpeg_finish_decompress(&cinfo);

If using the stdio source manager, don't forget to close the source stdio stream if necessary.

It is an error to call jpeg_finish_decompress() before reading the correct total number of scanlines. If you wish to abort decompression, call jpeg_abort() as discussed below.

After completing a decompression cycle, you may dispose of the JPEG object as discussed next, or you may use it to decompress another image. In that case return to step 2 or 3 as appropriate. If you do not change the source manager, the next image will be read from the same source.
8. Release the JPEG decompression object.

When you are done with a JPEG decompression object, destroy it by calling jpeg_destroy_decompress() or jpeg_destroy(). The previous discussion of destroying compression objects applies here too.

Typical code:

jpeg_destroy_decompress(&cinfo);


You can abort a decompression cycle by calling jpeg_destroy_decompress() or jpeg_destroy() if you don't need the JPEG object any more, or jpeg_abort_decompress() or jpeg_abort() if you want to reuse the object. The previous discussion of aborting compression cycles applies here too.

Mechanics of usage: include files, linking, etc

Applications using the JPEG library should include the header file jpeglib.h to obtain declarations of data types and routines. Before including jpeglib.h, include system headers that define at least the typedefs FILE and size_t. On ANSI-conforming systems, including <stdio.h> is sufficient; on older Unix systems, you may need <sys/types.h> to define size_t.

If the application needs to refer to individual JPEG library error codes, also include jerror.h to define those symbols.

jpeglib.h indirectly includes the files jconfig.h and jmorecfg.h. If you are installing the JPEG header files in a system directory, you will want to install all four files: jpeglib.h, jerror.h, jconfig.h, jmorecfg.h.

The most convenient way to include the JPEG code into your executable program is to prepare a library file ("libjpeg.a", or a corresponding name on non-Unix machines) and reference it at your link step. If you use only half of the library (only compression or only decompression), only that much code will be included from the library, unless your linker is hopelessly brain-damaged. The supplied makefiles build libjpeg.a automatically (see install.txt).

While you can build the JPEG library as a shared library if the whim strikes you, we don't really recommend it. The trouble with shared libraries is that at some point you'll probably try to substitute a new version of the library without recompiling the calling applications. That generally doesn't work because the parameter struct declarations usually change with each new version. In other words, the library's API is *not* guaranteed binary
compatible across versions; we only try to ensure source-code compatibility. (In hindsight, it might have been smarter to hide the parameter structs from applications and introduce a ton of access functions instead. Too late now, however.)

On some systems your application may need to set up a signal handler to ensure that temporary files are deleted if the program is interrupted. This is most critical if you are on MS-DOS and use the jmemdos.c memory manager back end; it will try to grab extended memory for temp files, and that space will NOT be freed automatically. See cjpeg.c or djpeg.c for an example signal handler.

It may be worth pointing out that the core JPEG library does not actually require the stdio library; only the default source/destination managers and error handler need it. You can use the library in a stdio-less environment if you replace those modules and use jmemnobs.c (or another memory manager of your own devising). More info about the minimum system library requirements may be found in jinclude.h.

ADVANCED FEATURES
=================

Compression parameter selection
---------------------------------

This section describes all the optional parameters you can set for JPEG compression, as well as the "helper" routines provided to assist in this task. Proper setting of some parameters requires detailed understanding of the JPEG standard; if you don't know what a parameter is for, it's best not to mess with it! See REFERENCES in the README file for pointers to more info about JPEG.

It's a good idea to call jpeg_set_defaults() first, even if you plan to set all the parameters; that way your code is more likely to work with future JPEG libraries that have additional parameters. For the same reason, we recommend you use a helper routine where one is provided, in preference to twiddling cinfo fields directly.

The helper routines are:

jpeg_set_defaults (j_compress_ptr cinfo)
This routine sets all JPEG parameters to reasonable defaults, using only the input image's color space (field in_color_space, which must already be set in cinfo). Many applications will only need to use this routine and perhaps jpeg_set_quality().

jpeg_set_colorspace (j_compress_ptr cinfo, J_COLOR_SPACE colorspace)
Sets the JPEG file's colorspace (field jpeg_color_space) as specified,
and sets other color-space-dependent parameters appropriately. See "Special color spaces", below, before using this. A large number of parameters, including all per-component parameters, are set by this routine; if you want to twiddle individual parameters you should call jpeg_set_colors() before rather than after.

jpeg_default_colorspace (j_compress_ptr cinfo)
Selects an appropriate JPEG colorspace based on cinfo->in_color_space, and calls jpeg_set_colorspace(). This is actually a subroutine of jpeg_set_defaults(). It's broken out in case you want to change just the colorspace-dependent JPEG parameters.

jpeg_set_quality (j_compress_ptr cinfo, int quality, boolean force_baseline)
Constructs JPEG quantization tables appropriate for the indicated quality setting. The quality value is expressed on the 0..100 scale recommended by IJG (cjpeg's "-quality" switch uses this routine). Note that the exact mapping from quality values to tables may change in future IJG releases as more is learned about DCT quantization. If the force_baseline parameter is TRUE, then the quantization table entries are constrained to the range 1..255 for full JPEG baseline compatibility. In the current implementation, this only makes a difference for quality settings below 25, and it effectively prevents very small/low quality files from being generated. The IJG decoder is capable of reading the non-baseline files generated at low quality settings when force_baseline is FALSE, but other decoders may not be.

jpeg_set_linear_quality (j_compress_ptr cinfo, int scale_factor, boolean force_baseline)
Same as jpeg_set_quality() except that the generated tables are the sample tables given in the JPEC spec section K.1, multiplied by the specified scale factor (which is expressed as a percentage; thus scale_factor = 100 reproduces the spec's tables). Note that larger scale factors give lower quality. This entry point is useful for conforming to the Adobe PostScript DCT conventions, but we do not recommend linear scaling as a user-visible quality scale otherwise. force_baseline again constrains the computed table entries to 1..255.

int jpeg_quality_scaling (int quality)
Converts a value on the IJG-recommended quality scale to a linear scaling percentage. Note that this routine may change or go away in future releases --- IJG may choose to adopt a scaling method that can't be expressed as a simple scalar multiplier, in which case the premise of this routine collapses. Caveat user.

jpeg_default_qtables (j_compress_ptr cinfo, boolean force_baseline)
Set default quantization tables with linear q_scale_factor[] values (see below).
jpeg_add_quant_table (j_compress_ptr cinfo, int which_tbl,
    const unsigned int *basic_table,
    int scale_factor, boolean force_baseline)

Allows an arbitrary quantization table to be created. which_tbl indicates which table slot to fill. basic_table points to an array of 64 unsigned ints given in normal array order. These values are multiplied by scale_factor/100 and then clamped to the range 1..65535 (or to 1..255 if force_baseline is TRUE).

CAUTION: prior to library version 6a, jpeg_add_quant_table expected the basic table to be given in JPEG zigzag order. If you need to write code that works with either older or newer versions of this routine, you must check the library version number. Something like "#if JPEG_LIB_VERSION >= 61" is the right test.

jpeg_simple_progression (j_compress_ptr cinfo)
Generates a default scan script for writing a progressive-JPEG file. This is the recommended method of creating a progressive file, unless you want to make a custom scan sequence. You must ensure that the JPEG color space is set correctly before calling this routine.

Compression parameters (cinfo fields) include:

boolean arith_code
If TRUE, use arithmetic coding.
If FALSE, use Huffman coding.

int block_size
Set DCT block size. All N from 1 to 16 are possible.
Default is 8 (baseline format).
Larger values produce higher compression,
smaller values produce higher quality.
An exact DCT stage is possible with 1 or 2.
With the default quality of 75 and default Luminance qtable the DCT+Quantization stage is lossless for value 1.
Note that values other than 8 require a SmartScale capable decoder, introduced with IJG JPEG 8. Setting the block_size parameter for compression works with version 8c and later.

J_DCT_METHOD dct_method
Selects the algorithm used for the DCT step. Choices are:
JDCT_ISLOW: slow but accurate integer algorithm
JDCT_IFAST: faster, less accurate integer method
JDCT_FLOAT: floating-point method
JDCT_DEFAULT: default method (normally JDCT_ISLOW)
JDCT_FASTEST: fastest method (normally JDCT_IFAST)
The FLOAT method is very slightly more accurate than the ISLOW method, but may give different results on different machines due to varying
roundoff behavior. The integer methods should give the same results on all machines. On machines with sufficiently fast FP hardware, the floating-point method may also be the fastest. The IFAST method is considerably less accurate than the other two; its use is not recommended if high quality is a concern. JDCT_DEFAULT and JDCT_FASTEST are macros configurable by each installation.

unsigned int scale_num, scale_denom
Scale the image by the fraction scale_num/scale_denom. Default is 1/1, or no scaling. Currently, the supported scaling ratios are M/N with all N from 1 to 16, where M is the destination DCT size, which is 8 by default (see block_size parameter above). (The library design allows for arbitrary scaling ratios but this is not likely to be implemented any time soon.)

J_COLOR_SPACE jpeg_color_space
int num_components
The JPEG color space and corresponding number of components; see "Special color spaces", below, for more info. We recommend using jpeg_set_colorspace() if you want to change these.

J_COLOR_TRANSFORM color_transform
Internal color transform identifier, writes LSE marker if nonzero (requires decoder with inverse color transform support, introduced with IJG JPEG 9).
Two values are currently possible: JCT_NONE and JCT_SUBTRACT_GREEN. Set this value for lossless RGB application *before* calling jpeg_set_colorspace(), because entropy table assignment in jpeg_set_colorspace() depends on color_transform.

boolean optimize_coding
TRUE causes the compressor to compute optimal Huffman coding tables for the image. This requires an extra pass over the data and therefore costs a good deal of space and time. The default is FALSE, which tells the compressor to use the supplied or default Huffman tables. In most cases optimal tables save only a few percent of file size compared to the default tables. Note that when this is TRUE, you need not supply Huffman tables at all, and any you do supply will be overwritten.

unsigned int restart_interval
int restart_in_rows
To emit restart markers in the JPEG file, set one of these nonzero. Set restart_interval to specify the exact interval in MCU blocks. Set restart_in_rows to specify the interval in MCU rows. (If restart_in_rows is not 0, then restart_interval is set after the image width in MCUs is computed.) Defaults are zero (no restarts). One restart marker per MCU row is often a good choice.
NOTE: the overhead of restart markers is higher in grayscale JPEG files than in color files, and MUCH higher in progressive JPEGs.
If you use restarts, you may want to use larger intervals in those cases.

const jpeg_scan_info * scan_info
int num_scans
By default, scan_info is NULL; this causes the compressor to write a single-scan sequential JPEG file. If not NULL, scan_info points to an array of scan definition records of length num_scans. The compressor will then write a JPEG file having one scan for each scan definition record. This is used to generate noninterleaved or progressive JPEG files. The library checks that the scan array defines a valid JPEG scan sequence. (jpeg_simple_progression creates a suitable scan definition array for progressive JPEG.) This is discussed further under "Progressive JPEG support".

boolean do_fancy_downsampling
If TRUE, use direct DCT scaling with DCT size > 8 for downsampling of chroma components.
If FALSE, use only DCT size <= 8 and simple separate downsampling. Default is TRUE.
For better image stability in multiple generation compression cycles it is preferable that this value matches the corresponding do_fancy_upsampling value in decompression.

int smoothing_factor
If non-zero, the input image is smoothed; the value should be 1 for minimal smoothing to 100 for maximum smoothing. Consult jcsample.c for details of the smoothing algorithm. The default is zero.

boolean write_JFIF_header
If TRUE, a JFIF APP0 marker is emitted. jpeg_set_defaults() and jpeg_set_colorspace() set this TRUE if a JFIF-legal JPEG color space (ie, YCbCr or grayscale) is selected, otherwise FALSE.

UINT8 JFIF_major_version
UINT8 JFIF_minor_version
The version number to be written into the JFIF marker.
jpeg_set_defaults() initializes the version to 1.01 (major=minor=1).
You should set it to 1.02 (major=1, minor=2) if you plan to write any JFIF 1.02 extension markers.

UINT8 density_unit
UINT16 X_density
UINT16 Y_density
The resolution information to be written into the JFIF marker;
not used otherwise. density_unit may be 0 for unknown,
1 for dots/inch, or 2 for dots/cm. The default values are 0,1,1 indicating square pixels of unknown size.

```c
boolean write_Adobe_marker
If TRUE, an Adobe APP14 marker is emitted. jpeg_set_defaults() and jpeg_set_colors_space() set this TRUE if JPEG color space RGB, CMYK, or YCCK is selected, otherwise FALSE. It is generally a bad idea to set both write_JFIF_header and write_Adobe_marker. In fact, you probably shouldn't change the default settings at all --- the default behavior ensures that the JPEG file's color space can be recognized by the decoder.

JQUANT_TBL * quant_tbl_ptrs[NUM_QUANT_TBLS]
Pointers to coefficient quantization tables, one per table slot, or NULL if no table is defined for a slot. Usually these should be set via one of the above helper routines; jpeg_add_quant_table() is general enough to define any quantization table. The other routines will set up table slot 0 for luminance quality and table slot 1 for chrominance.

int q_scale_factor[NUM_QUANT_TBLS]
Linear quantization scaling factors (percentage, initialized 100) for use with jpeg_default_qtables(). See rdswitch.c and cjpeg.c for an example of usage. Note that the q_scale_factor[] fields are the "linear" scales, so you have to convert from user-defined ratings via jpeg_quality_scaling(). Here is an example code which corresponds to cjpeg -quality 90,70:

```c
jpeg_set_defaults(cinfo);
/* Set luminance quality 90. */
cinfo->q_scale_factor[0] = jpeg_quality_scaling(90);
/* Set chrominance quality 70. */
cinfo->q_scale_factor[1] = jpeg_quality_scaling(70);
jpeg_default_qtables(cinfo, force_baseline);
```

CAUTION: You must also set 1x1 subsampling for efficient separate color quality selection, since the default value used by library is 2x2:

```c
cinfo->comp_info[0].v_samp_factor = 1;
cinfo->comp_info[0].h_samp_factor = 1;

JHUFF_TBL * dc_huff_tbl_ptrs[NUM_HUFF_TBLS]
JHUFF_TBL * ac_huff_tbl_ptrs[NUM_HUFF_TBLS]
Pointers to Huffman coding tables, one per table slot, or NULL if no table is defined for a slot. Slots 0 and 1 are filled with the
JPEG sample tables by jpeg_set_defaults(). If you need to allocate more table structures, jpeg_alloc_huff_table() may be used. Note that optimal Huffman tables can be computed for an image by setting optimize_coding, as discussed above; there's seldom any need to mess with providing your own Huffman tables.

The actual dimensions of the JPEG image that will be written to the file are given by the following fields. These are computed from the input image dimensions and the compression parameters by jpeg_start_compress(). You can also call jpeg_calc_jpeg_dimensions() to obtain the values that will result from the current parameter settings. This can be useful if you are trying to pick a scaling ratio that will get close to a desired target size.

JDIMENSION jpeg_width  Actual dimensions of output image.
JDIMENSION jpeg_height

Per-component parameters are stored in the struct cinfo.comp_info[i] for component number i. Note that components here refer to components of the JPEG color space, *not* the source image color space. A suitably large comp_info[] array is allocated by jpeg_set_defaults(); if you choose not to use that routine, it's up to you to allocate the array.

int component_id
The one-byte identifier code to be recorded in the JPEG file for this component. For the standard color spaces, we recommend you leave the default values alone.

int h_samp_factor
int v_samp_factor
Horizontal and vertical sampling factors for the component; must be 1..4 according to the JPEG standard. Note that larger sampling factors indicate a higher-resolution component; many people find this behavior quite unintuitive. The default values are 2,2 for luminance components and 1,1 for chrominance components, except for grayscale where 1,1 is used.

int quant_tbl_no
Quantization table number for component. The default value is 0 for luminance components and 1 for chrominance components.

int dc_tbl_no
int ac_tbl_no
DC and AC entropy coding table numbers. The default values are 0 for luminance components and 1 for chrominance components.

int component_index
Decompression parameter selection

Decompression parameter selection is somewhat simpler than compression parameter selection, since all of the JPEG internal parameters are recorded in the source file and need not be supplied by the application. (Unless you are working with abbreviated files, in which case see "Abbreviated datastreams", below.) Decompression parameters control the postprocessing done on the image to deliver it in a format suitable for the application's use. Many of the parameters control speed/quality tradeoffs, in which faster decompression may be obtained at the price of a poorer-quality image. The defaults select the highest quality (slowest) processing.

The following fields in the JPEG object are set by jpeg_read_header() and may be useful to the application in choosing decompression parameters:

JDIMENSION image_width
Width and height of image
JDIMENSION image_height
int num_components
Number of color components
J_COLOR_SPACE jpeg_color_space
Colors of image
boolean saw_JFIF_marker
TRUE if a JFIF APP0 marker was seen
UINT8 JFIF_major_version
Version information from JFIF marker
UINT8 JFIF_minor_version
UINT8 density_unit
Resolution data from JFIF marker
UINT16 X_density
UINT16 Y_density
boolean saw_Adobe_marker
TRUE if an Adobe APP14 marker was seen
UINT8 Adobe_transform
Color transform code from Adobe marker

The JPEG color space, unfortunately, is something of a guess since the JPEG standard proper does not provide a way to record it. In practice most files adhere to the JFIF or Adobe conventions, and the decoder will recognize these correctly. See "Special color spaces", below, for more info.

The decompression parameters that determine the basic properties of the returned image are:

J_COLOR_SPACE out_color_space
Output color space. jpeg_read_header() sets an appropriate default based on jpeg_color_space; typically it will be RGB or grayscale.
The application can change this field to request output in a different
colorsce. For example, set it to JCS_GRAYSCALE to get grayscale output from a color file. (This is useful for previewing: grayscale output is faster than full color since the color components need not be processed.) Note that not all possible color space transforms are currently implemented; you may need to extend jdcolor.c if you want an unusual conversion.

unsigned int scale_num, scale_denom
Scale the image by the fraction scale_num/scale_denom. Currently, the supported scaling ratios are M/N with all M from 1 to 16, where N is the source DCT size, which is 8 for baseline JPEG. (The library design allows for arbitrary scaling ratios but this is not likely to be implemented any time soon.) The values are initialized by jpeg_read_header() with the source DCT size. For baseline JPEG this is 8/8. If you change only the scale_num value while leaving the other unchanged, then this specifies the DCT scaled size to be applied on the given input. For baseline JPEG this is equivalent to M/8 scaling, since the source DCT size for baseline JPEG is 8. Smaller scaling ratios permit significantly faster decoding since fewer pixels need be processed and a simpler IDCT method can be used.

boolean quantize_colors
If set TRUE, colormapped output will be delivered. Default is FALSE, meaning that full-color output will be delivered.

The next three parameters are relevant only if quantize_colors is TRUE.

int desired_number_of_colors
Maximum number of colors to use in generating a library-supplied color map (the actual number of colors is returned in a different field). Default 256. Ignored when the application supplies its own color map.

boolean two_pass_quantize
If TRUE, an extra pass over the image is made to select a custom color map for the image. This usually looks a lot better than the one-size-fits-all colormap that is used otherwise. Default is TRUE. Ignored when the application supplies its own color map.

J_DITHER_MODE dither_mode
Selects color dithering method. Supported values are:
JDITHER_NONE no dithering: fast, very low quality
JDITHER_ORDERED ordered dither: moderate speed and quality
JDITHER_FS Floyd-Steinberg dither: slow, high quality
Default is JDITHER_FS. (At present, ordered dither is implemented only in the single-pass, standard-colormap case. If you ask for ordered dither when two_pass_quantize is TRUE or when you supply an external color map, you'll get F-S dithering.)
When quantize_colors is TRUE, the target color map is described by the next
two fields. colormap is set to NULL by jpeg_read_header(). The application
can supply a color map by setting colormap non-NULL and setting
actual_number_of_colors to the map size. Otherwise, jpeg_start_decompress()
selects a suitable color map and sets these two fields itself.
[Implementation restriction: at present, an externally supplied colormap is
only accepted for 3-component output color spaces.]

JSAMPARRAY colormap
The color map, represented as a 2-D pixel array of out_color_components
rows and actual_number_of_colors columns. Ignored if not quantizing.
CAUTION: if the JPEG library creates its own colormap, the storage
pointed to by this field is released by jpeg_finish_decompress().
Copy the colormap somewhere else first, if you want to save it.

int actual_number_of_colors
The number of colors in the color map.

Additional decompression parameters that the application may set include:

J_DCT_METHOD dct_method
Selects the algorithm used for the DCT step. Choices are the same
as described above for compression.

boolean do_fancy_upsampling
If TRUE, use direct DCT scaling with DCT size > 8 for upsampling
of chroma components.
If FALSE, use only DCT size <= 8 and simple separate upsampling.
Default is TRUE.
For better image stability in multiple generation compression cycles
it is preferable that this value matches the corresponding
do_fancy_downsampling value in compression.

boolean do_block_smoothing
If TRUE, interblock smoothing is applied in early stages of decoding
progressive JPEG files; if FALSE, not. Default is TRUE. Early
progression stages look "fuzzy" with smoothing, "blocky" without.
In any case, block smoothing ceases to be applied after the first few
AC coefficients are known to full accuracy, so it is relevant only
when using buffered-image mode for progressive images.

boolean enable_1pass_quant
boolean enable_external_quant
boolean enable_2pass_quant
These are significant only in buffered-image mode, which is
described in its own section below.
The output image dimensions are given by the following fields. These are computed from the source image dimensions and the decompression parameters by jpeg_start_decompress(). You can also call jpeg_calc_output_dimensions() to obtain the values that will result from the current parameter settings. This can be useful if you are trying to pick a scaling ratio that will get close to a desired target size. It's also important if you are using the JPEG library's memory manager to allocate output buffer space, because you are supposed to request such buffers before jpeg_start_decompress().

JDIMENSION output_width
Actual dimensions of output image.
JDIMENSION output_height
int out_color_components
Number of color components in out_color_space.
int output_components
Number of color components returned.
int rec_outbuf_height
Recommended height of scanline buffer.

When quantizing colors, output_components is 1, indicating a single color map index per pixel. Otherwise it equals out_color_components. The output arrays are required to be output_width * output_components JSAMPLEs wide.

rec_outbuf_height is the recommended minimum height (in scanlines) of the buffer passed to jpeg_read_scanlines(). If the buffer is smaller, the library will still work, but time will be wasted due to unnecessary data copying. In high-quality modes, rec_outbuf_height is always 1, but some faster, lower-quality modes set it to larger values (typically 2 to 4). If you are going to ask for a high-speed processing mode, you may as well go to the trouble of honoring rec_outbuf_height so as to avoid data copying. (An output buffer larger than rec_outbuf_height lines is OK, but won't provide any material speed improvement over that height.)

Special color spaces
---------------------

The JPEG standard itself is "color blind" and doesn't specify any particular color space. It is customary to convert color data to a luminance/chrominance color space before compressing, since this permits greater compression. The existing JPEG file interchange format standards specify YCbCr or GRAYSCALE data (JFIF version 1), GRAYSCALE, RGB, YCbCr, CMYK, or YCCK (Adobe), or BG_RGB or BG_YCC (big gamut color spaces, JFIF version 2). For special applications such as multispectral images, other color spaces can be used, but it must be understood that such files will be unportable.

The JPEG library can handle the most common colorspace conversions (namely RGB <=> YCbCr and CMYK <=> YCCK). It can also deal with data of an unknown color space, passing it through without conversion. If you deal extensively with an unusual color space, you can easily extend the library to understand additional color spaces and perform appropriate conversions.
For compression, the source data's color space is specified by field
in_color_space. This is transformed to the JPEG file's color space given
by jpeg_color_space. jpeg_set_defaults() chooses a reasonable JPEG color
space depending on in_color_space, but you can override this by calling
jpeg_set_colorspace(). Of course you must select a supported transformation.
jcclor.c currently supports the following transformations:
RGB => YCbCr
RGB => GRAYSCALE
RGB => BG_YCC
YCbCr => GRAYSCALE
YCbCr => BG_YCC
CMYK => YCCK
plus the null transforms: GRAYSCALE => GRAYSCALE, RGB => RGB,
BG_RGB => BG_RGB, YCbCr => YCbCr, BG_YCC => BG_YCC, CMYK => CMYK,
YCCK => YCCK, and UNKNOWN => UNKNOWN.

The file interchange format standards (JFIF and Adobe) specify APPn markers
that indicate the color space of the JPEG file. It is important to ensure
that these are written correctly, or omitted if the JPEG file's color space
is not one of the ones supported by the interchange standards.
jpeg_set_colorspace() will set the compression parameters to include or omit
the APPn markers properly, so long as it is told the truth about the JPEG
color space. For example, if you are writing some random 3-component color
space without conversion, don't try to fake out the library by setting
in_color_space and jpeg_color_space to JCS_YCbCr; use JCS_UNKNOWN.
You may want to write an APPn marker of your own devising to identify
the colorspace --- see "Special markers", below.

When told that the color space is UNKNOWN, the library will default to using
luminance-quality compression parameters for all color components. You may
well want to change these parameters. See the source code for
jpeg_set_colorspace(), in jepcram.c, for details.

For decompression, the JPEG file's color space is given in jpeg_color_space,
and this is transformed to the output color space out_color_space.
jpeg_read_header's setting of jpeg_color_space can be relied on if the file
conforms to JFIF or Adobe conventions, but otherwise it is no better than a
guess. If you know the JPEG file's color space for certain, you can override
jpeg_read_header's guess by setting jpeg_color_space. jpeg_read_header also
selects a default output color space based on (its guess of) jpeg_color_space;
set out_color_space to override this. Again, you must select a supported
transformation. jdcolor.c currently supports
YCbCr => RGB
YCbCr => GRAYSCALE
BG_YCC => RGB
BG_YCC => GRAYSCALE
RGB => GRAYSCALE
GRAYSCALE => RGB
YCCK => CMYK
as well as the null transforms. (Since GRAYSCALE=>RGB is provided, an
application can force grayscale JPEGs to look like color JPEGs if it only
wants to handle one case.)

The two-pass color quantizer, jquant2.c, is specialized to handle RGB data
(it weights distances appropriately for RGB colors). You'll need to modify
the code if you want to use it for non-RGB output color spaces. Note that
jquant2.c is used to map to an application-supplied colormap as well as for
the normal two-pass colormap selection process.

CAUTION: it appears that Adobe Photoshop writes inverted data in CMYK JPEG
files: 0 represents 100% ink coverage, rather than 0% ink as you'd expect.
This is arguably a bug in Photoshop, but if you need to work with Photoshop
CMYK files, you will have to deal with it in your application. We cannot
"fix" this in the library by inverting the data during the CMYK<=>YCCK
transform, because that would break other applications, notably Ghostscript.
Photoshop versions prior to 3.0 write EPS files containing JPEG-encoded CMYK
data in the same inverted-YCCK representation used in bare JPEG files, but
the surrounding PostScript code performs an inversion using the PS image
operator. I am told that Photoshop 3.0 will write uninverted YCCK in
EPS/JPEG files, and will omit the PS-level inversion. (But the data
polarity used in bare JPEG files will not change in 3.0.) In either case,
the JPEG library must not invert the data itself, or else Ghostscript would
read these EPS files incorrectly.

Error handling
-------------

When the default error handler is used, any error detected inside the JPEG
routines will cause a message to be printed on stderr, followed by exit().
You can supply your own error handling routines to override this behavior
and to control the treatment of nonfatal warnings and trace/debug messages.
The file example.c illustrates the most common case, which is to have the
application regain control after an error rather than exiting.

The JPEG library never writes any message directly; it always goes through
the error handling routines. Three classes of messages are recognized:
* Fatal errors: the library cannot continue.
* Warnings: the library can continue, but the data is corrupt, and a
damaged output image is likely to result.
* Trace/informational messages. These come with a trace level indicating
  the importance of the message; you can control the verbosity of the
  program by adjusting the maximum trace level that will be displayed.

You may, if you wish, simply replace the entire JPEG error handling module
(jerror.c) with your own code. However, you can avoid code duplication by
only replacing some of the routines depending on the behavior you need. This is accomplished by calling jpeg_std_error() as usual, but then overriding some of the method pointers in the jpeg_error_mgr struct, as illustrated by example.c.

All of the error handling routines will receive a pointer to the JPEG object (a j_common_ptr which points to either a jpeg_compress_struct or a jpeg_decompress_struct; if you need to tell which, test the is_decompressor field). This struct includes a pointer to the error manager struct in its "err" field. Frequently, custom error handler routines will need to access additional data which is not known to the JPEG library or the standard error handler. The most convenient way to do this is to embed either the JPEG object or the jpeg_error_mgr struct in a larger structure that contains additional fields; then casting the passed pointer provides access to the additional fields. Again, see example.c for one way to do it. (Beginning with IJG version 6b, there is also a void pointer "client_data" in each JPEG object, which the application can also use to find related data. The library does not touch client_data at all.)

The individual methods that you might wish to override are:

error_exit (j_common_ptr cinfo)
Receives control for a fatal error. Information sufficient to generate the error message has been stored in cinfo->err; call output_message to display it. Control must NOT return to the caller; generally this routine will exit() or longjmp() somewhere. Typically you would override this routine to get rid of the exit() default behavior. Note that if you continue processing, you should clean up the JPEG object with jpeg_abort() or jpeg_destroy().

output_message (j_common_ptr cinfo)
Actual output of any JPEG message. Override this to send messages somewhere other than stderr. Note that this method does not know how to generate a message, only where to send it.

format_message (j_common_ptr cinfo, char * buffer)
Constructs a readable error message string based on the error info stored in cinfo->err. This method is called by output_message. Few applications should need to override this method. One possible reason for doing so is to implement dynamic switching of error message language.

emit_message (j_common_ptr cinfo, int msg_level)
Decide whether or not to emit a warning or trace message; if so, calls output_message. The main reason for overriding this method would be to abort on warnings. msg_level is -1 for warnings, 0 and up for trace messages.
Only error_exit() and emit_message() are called from the rest of the JPEG library; the other two are internal to the error handler.

The actual message texts are stored in an array of strings which is pointed to by the field err->jpeg_message_table. The messages are numbered from 0 to err->last_jpeg_message, and it is these code numbers that are used in the JPEG library code. You could replace the message texts (for instance, with messages in French or German) by changing the message table pointer. See jerror.h for the default texts. CAUTION: this table will almost certainly change or grow from one library version to the next.

It may be useful for an application to add its own message texts that are handled by the same mechanism. The error handler supports a second "add-on" message table for this purpose. To define an addon table, set the pointer err->addon_message_table and the message numbers err->first_addon_message and err->last_addon_message. If you number the addon messages beginning at 1000 or so, you won't have to worry about conflicts with the library's built-in messages. See the sample applications cjpeg/djpeg for an example of using addon messages (the addon messages are defined in cderror.h).

Actual invocation of the error handler is done via macros defined in jerror.h:
ERREXITn(...) for fatal errors
WARNMSn(...) for corrupt-data warnings
TRACEMSn(...) for trace and informational messages.
These macros store the message code and any additional parameters into the error handler struct, then invoke the error_exit() or emit_message() method. The variants of each macro are for varying numbers of additional parameters. The additional parameters are inserted into the generated message using standard printf() format codes.

See jerror.h and jerror.c for further details.

Compressed data handling (source and destination managers)
-----------------------------------------------

The JPEG compression library sends its compressed data to a "destination manager" module. The default destination manager just writes the data to a memory buffer or to a stdio stream, but you can provide your own manager to do something else. Similarly, the decompression library calls a "source manager" to obtain the compressed data; you can provide your own source manager if you want the data to come from somewhere other than a memory buffer or a stdio stream.

In both cases, compressed data is processed a bufferload at a time: the destination or source manager provides a work buffer, and the library invokes the manager only when the buffer is filled or emptied. (You could define a one-character buffer to force the manager to be invoked for each byte, but
that would be rather inefficient.) The buffer’s size and location are
controlled by the manager, not by the library. For example, the memory
source manager just makes the buffer pointer and length point to the original
data in memory. In this case the buffer-reload procedure will be invoked
only if the decompressor ran off the end of the datastream, which would
indicate an erroneous datastream.

The work buffer is defined as an array of datatype JOCTET, which is generally
"char" or "unsigned char". On a machine where char is not exactly 8 bits
wide, you must define JOCTET as a wider data type and then modify the data
source and destination modules to transcribe the work arrays into 8-bit units
on external storage.

A data destination manager struct contains a pointer and count defining the
next byte to write in the work buffer and the remaining free space:

    JOCTET * next_output_byte; /* => next byte to write in buffer */
    size_t free_in_buffer;      /* # of byte spaces remaining in buffer */

The library increments the pointer and decrements the count until the buffer
is filled. The manager's empty_output_buffer method must reset the pointer
and count. The manager is expected to remember the buffer's starting address
and total size in private fields not visible to the library.

A data destination manager provides three methods:

    init_destination (j_compress_ptr cinfo)
    Initialize destination. This is called by jpeg_start_compress()
    before any data is actually written. It must initialize
    next_output_byte and free_in_buffer. free_in_buffer must be
    initialized to a positive value.

    empty_output_buffer (j_compress_ptr cinfo)
    This is called whenever the buffer has filled (free_in_buffer
    reaches zero). In typical applications, it should write out the
    *entire* buffer (use the saved start address and buffer length;
    ignore the current state of next_output_byte and free_in_buffer).
    Then reset the pointer & count to the start of the buffer, and
    return TRUE indicating that the buffer has been dumped.
    free_in_buffer must be set to a positive value when TRUE is
    returned. A FALSE return should only be used when I/O suspension is
    desired (this operating mode is discussed in the next section).

    term_destination (j_compress_ptr cinfo)
    Terminate destination --- called by jpeg_finish_compress() after all
    data has been written. In most applications, this must flush any
    data remaining in the buffer. Use either next_output_byte or
    free_in_buffer to determine how much data is in the buffer.
term_destination() is NOT called by jpeg_abort() or jpeg_destroy(). If you want the destination manager to be cleaned up during an abort, you must do it yourself.

You will also need code to create a jpeg_destination_mgr struct, fill in its method pointers, and insert a pointer to the struct into the "dest" field of the JPEG compression object. This can be done in-line in your setup code if you like, but it's probably cleaner to provide a separate routine similar to the jpeg_stdio_dest() or jpeg_mem_dest() routines of the supplied destination managers.

Decompression source managers follow a parallel design, but with some additional frammishes. The source manager struct contains a pointer and count defining the next byte to read from the work buffer and the number of bytes remaining:

const JOCTET * next_input_byte; /* => next byte to read from buffer */
size_t bytes_in_buffer;         /* # of bytes remaining in buffer */

The library increments the pointer and decrements the count until the buffer is emptied. The manager's fill_input_buffer method must reset the pointer and count. In most applications, the manager must remember the buffer's starting address and total size in private fields not visible to the library.

A data source manager provides five methods:

init_source (j_decompress_ptr cinfo)
Initialize source. This is called by jpeg_read_header() before any data is actually read. Unlike init_destination(), it may leave bytes_in_buffer set to 0 (in which case a fill_input_buffer() call will occur immediately).

fill_input_buffer (j_decompress_ptr cinfo)
This is called whenever bytes_in_buffer has reached zero and more data is wanted. In typical applications, it should read fresh data into the buffer (ignoring the current state of next_input_byte and bytes_in_buffer), reset the pointer & count to the start of the buffer, and return TRUE indicating that the buffer has been reloaded. It is not necessary to fill the buffer entirely, only to obtain at least one more byte. bytes_in_buffer MUST be set to a positive value if TRUE is returned. A FALSE return should only be used when I/O suspension is desired (this mode is discussed in the next section).

skip_input_data (j_decompress_ptr cinfo, long num_bytes)
Skip num_bytes worth of data. The buffer pointer and count should be advanced over num_bytes input bytes, refilling the buffer as needed. This is used to skip over a potentially large amount of
uninteresting data (such as an APPn marker). In some applications it may be possible to optimize away the reading of the skipped data, but it's not clear that being smart is worth much trouble; large skips are uncommon. bytes_in_buffer may be zero on return. A zero or negative skip count should be treated as a no-op.

resync_to_restart (j_decompress_ptr cinfo, int desired)
This routine is called only when the decompressor has failed to find a restart (RSTn) marker where one is expected. Its mission is to find a suitable point for resuming decompression. For most applications, we recommend that you just use the default resync procedure, jpeg_resync_to_restart(). However, if you are able to back up in the input data stream, or if you have a-priori knowledge about the likely location of restart markers, you may be able to do better. Read the read_restart_marker() and jpeg_resync_to_restart() routines in jdmarker.c if you think you'd like to implement your own resync procedure.

term_source (j_decompress_ptr cinfo)
Terminate source --- called by jpeg_finish_decompress() after all data has been read. Often a no-op.

For both fill_input_buffer() and skip_input_data(), there is no such thing as an EOF return. If the end of the file has been reached, the routine has a choice of exiting via ERREXIT() or inserting fake data into the buffer. In most cases, generating a warning message and inserting a fake EOI marker is the best course of action --- this will allow the decompressor to output however much of the image is there. In pathological cases, the decompressor may swallow the EOI and again demand data ... just keep feeding it fake EOIs. jdatasrc.c illustrates the recommended error recovery behavior.

term_source() is NOT called by jpeg_abort() or jpeg_destroy(). If you want the source manager to be cleaned up during an abort, you must do it yourself.

You will also need code to create a jpeg_source_mgr struct, fill in its method pointers, and insert a pointer to the struct into the "src" field of the JPEG decompression object. This can be done in-line in your setup code if you like, but it's probably cleaner to provide a separate routine similar to the jpeg_stdio_src() or jpeg_mem_src() routines of the supplied source managers.

For more information, consult the memory and stdio source and destination managers in jdatasrc.c and jdatadst.c.

I/O suspension
--------------

Some applications need to use the JPEG library as an incremental memory-to-
memory filter: when the compressed data buffer is filled or emptied, they want control to return to the outer loop, rather than expecting that the buffer can be emptied or reloaded within the data source/destination manager subroutine. The library supports this need by providing an "I/O suspension" mode, which we describe in this section.

The I/O suspension mode is not a panacea: nothing is guaranteed about the maximum amount of time spent in any one call to the library, so it will not eliminate response-time problems in single-threaded applications. If you need guaranteed response time, we suggest you "bite the bullet" and implement a real multi-tasking capability.

To use I/O suspension, cooperation is needed between the calling application and the data source or destination manager; you will always need a custom source/destination manager. (Please read the previous section if you haven't already.) The basic idea is that the empty_output_buffer() or fill_input_buffer() routine is a no-op, merely returning FALSE to indicate that it has done nothing. Upon seeing this, the JPEG library suspends operation and returns to its caller. The surrounding application is responsible for emptying or refilling the work buffer before calling the JPEG library again.

Compression suspension:

For compression suspension, use an empty_output_buffer() routine that returns FALSE; typically it will not do anything else. This will cause the compressor to return to the caller of jpeg_write_scanlines(), with the return value indicating that not all the supplied scanlines have been accepted. The application must make more room in the output buffer, adjust the output buffer pointer/count appropriately, and then call jpeg_write_scanlines() again, pointing to the first unconsumed scanline.

When forced to suspend, the compressor will backtrack to a convenient stopping point (usually the start of the current MCU); it will regenerate some output data when restarted. Therefore, although empty_output_buffer() is only called when the buffer is filled, you should NOT write out the entire buffer after a suspension. Write only the data up to the current position of next_output_byte/free_in_buffer. The data beyond that point will be regenerated after resumption.

Because of the backtracking behavior, a good-size output buffer is essential for efficiency; you don't want the compressor to suspend often. (In fact, an overly small buffer could lead to infinite looping, if a single MCU required more data than would fit in the buffer.) We recommend a buffer of at least several Kbytes. You may want to insert explicit code to ensure that you don't call jpeg_write_scanlines() unless there is a reasonable amount of space in the output buffer; in other words, flush the buffer before trying to compress more data.
The compressor does not allow suspension while it is trying to write JPEG markers at the beginning and end of the file. This means that:

* At the beginning of a compression operation, there must be enough free space in the output buffer to hold the header markers (typically 600 or so bytes). The recommended buffer size is bigger than this anyway, so this is not a problem as long as you start with an empty buffer. However, this restriction might catch you if you insert large special markers, such as a JFIF thumbnail image, without flushing the buffer afterwards.

* When you call jpeg_finish_compress(), there must be enough space in the output buffer to emit any buffered data and the final EOI marker. In the current implementation, half a dozen bytes should suffice for this, but for safety's sake we recommend ensuring that at least 100 bytes are free before calling jpeg_finish_compress().

A more significant restriction is that jpeg_finish_compress() cannot suspend. This means you cannot use suspension with multi-pass operating modes, namely Huffman code optimization and multiple-scan output. Those modes write the whole file during jpeg_finish_compress(), which will certainly result in buffer overrun. (Note that this restriction applies only to compression, not decompression. The decompressor supports input suspension in all of its operating modes.)

Decompression suspension:

For decompression suspension, use a fill_input_buffer() routine that simply returns FALSE (except perhaps during error recovery, as discussed below). This will cause the decompressor to return to its caller with an indication that suspension has occurred. This can happen at four places:

* jpeg_read_header(): will return JPEG_SUSPENDED.
* jpeg_start_decompress(): will return FALSE, rather than its usual TRUE.
* jpeg_read_scanlines(): will return the number of scanlines already completed (possibly 0).
* jpeg_finish_decompress(): will return FALSE, rather than its usual TRUE.

The surrounding application must recognize these cases, load more data into the input buffer, and repeat the call. In the case of jpeg_read_scanlines(), increment the passed pointers past any scanlines successfully read.

Just as with compression, the decompressor will typically backtrack to a convenient restart point before suspending. When fill_input_buffer() is called, next_input_byte/bytes_in_buffer point to the current restart point, which is where the decompressor will backtrack to if FALSE is returned.

The data beyond that position must NOT be discarded if you suspend; it needs to be re-read upon resumption. In most implementations, you'll need to shift this data down to the start of your work buffer and then load more data after it. Again, this behavior means that a several-Kbyte work buffer is essential for decent performance; furthermore, you should load a reasonable amount of new data before resuming decompression. (If you loaded, say, only one new
byte each time around, you could waste a LOT of cycles.)

The skip_input_data() source manager routine requires special care in a suspension scenario. This routine is NOT granted the ability to suspend the decompressor; it can decrement bytes_in_buffer to zero, but no more. If the requested skip distance exceeds the amount of data currently in the input buffer, then skip_input_data() must set bytes_in_buffer to zero and record the additional skip distance somewhere else. The decompressor will immediately call fill_input_buffer(), which should return FALSE, which will cause a suspension return. The surrounding application must then arrange to discard the recorded number of bytes before it resumes loading the input buffer. (Yes, this design is rather baroque, but it avoids complexity in the far more common case where a non-suspending source manager is used.)

If the input data has been exhausted, we recommend that you emit a warning and insert dummy EOI markers just as a non-suspending data source manager would do. This can be handled either in the surrounding application logic or within fill_input_buffer(); the latter is probably more efficient. If fill_input_buffer() knows that no more data is available, it can set the pointer/count to point to a dummy EOI marker and then return TRUE just as though it had read more data in a non-suspending situation.

The decompressor does not attempt to suspend within standard JPEG markers; instead it will backtrack to the start of the marker and reprocess the whole marker next time. Hence the input buffer must be large enough to hold the longest standard marker in the file. Standard JPEG markers should normally not exceed a few hundred bytes each (DHT tables are typically the longest). We recommend at least a 2K buffer for performance reasons, which is much larger than any correct marker is likely to be. For robustness against damaged marker length counts, you may wish to insert a test in your application for the case that the input buffer is completely full and yet the decoder has suspended without consuming any data --- otherwise, if this situation did occur, it would lead to an endless loop. (The library can't provide this test since it has no idea whether "the buffer is full", or even whether there is a fixed-size input buffer.)

The input buffer would need to be 64K to allow for arbitrary COM or APPn markers, but these are handled specially; they are either saved into allocated memory, or skipped over by calling skip_input_data(). In the former case, suspension is handled correctly, and in the latter case, the problem of buffer overrun is placed on skip_input_data's shoulders, as explained above. Note that if you provide your own marker handling routine for large markers, you should consider how to deal with buffer overflow.

Multiple-buffer management:

In some applications it is desirable to store the compressed data in a linked list of buffer areas, so as to avoid data copying. This can be handled by
having empty_output_buffer() or fill_input_buffer() set the pointer and count to reference the next available buffer; FALSE is returned only if no more buffers are available. Although seemingly straightforward, there is a pitfall in this approach: the backtrack that occurs when FALSE is returned could back up into an earlier buffer. For example, when fill_input_buffer() is called, the current pointer & count indicate the backtrack restart point. Since fill_input_buffer() will set the pointer and count to refer to a new buffer, the restart position must be saved somewhere else. Suppose a second call to fill_input_buffer() occurs in the same library call, and no additional input data is available, so fill_input_buffer must return FALSE. If the JPEG library has not moved the pointer/count forward in the current buffer, then the correct restart point is the saved position in the prior buffer*. Prior buffers may be discarded only after the library establishes a restart point within a later buffer. Similar remarks apply for output into a chain of buffers.

The library will never attempt to backtrack over a skip_input_data() call, so any skipped data can be permanently discarded. You still have to deal with the case of skipping not-yet-received data, however.

It's much simpler to use only a single buffer; when fill_input_buffer() is called, move any unconsumed data (beyond the current pointer/count) down to the beginning of this buffer and then load new data into the remaining buffer space. This approach requires a little more data copying but is far easier to get right.

Progressive JPEG support
------------------------

Progressive JPEG rearranges the stored data into a series of scans of increasing quality. In situations where a JPEG file is transmitted across a slow communications link, a decoder can generate a low-quality image very quickly from the first scan, then gradually improve the displayed quality as more scans are received. The final image after all scans are complete is identical to that of a regular (sequential) JPEG file of the same quality setting. Progressive JPEG files are often slightly smaller than equivalent sequential JPEG files, but the possibility of incremental display is the main reason for using progressive JPEG.

The IJG encoder library generates progressive JPEG files when given a suitable "scan script" defining how to divide the data into scans. Creation of progressive JPEG files is otherwise transparent to the encoder. Progressive JPEG files can also be read transparently by the decoder library. If the decoding application simply uses the library as defined above, it will receive a final decoded image without any indication that the file was progressive. Of course, this approach does not allow incremental display. To perform incremental display, an application needs to use the decoder
library's "buffered-image" mode, in which it receives a decoded image multiple times.

Each displayed scan requires about as much work to decode as a full JPEG image of the same size, so the decoder must be fairly fast in relation to the data transmission rate in order to make incremental display useful. However, it is possible to skip displaying the image and simply add the incoming bits to the decoder's coefficient buffer. This is fast because only Huffman decoding need be done, not IDCT, upsampling, colorspace conversion, etc. The IJG decoder library allows the application to switch dynamically between displaying the image and simply absorbing the incoming bits. A properly coded application can automatically adapt the number of display passes to suit the time available as the image is received. Also, a final higher-quality display cycle can be performed from the buffered data after the end of the file is reached.

Progressive compression:

To create a progressive JPEG file (or a multiple-scan sequential JPEG file), set the scan_info cinfo field to point to an array of scan descriptors, and perform compression as usual. Instead of constructing your own scan list, you can call the jpeg_simple_progression() helper routine to create a recommended progression sequence; this method should be used by all applications that don't want to get involved in the nitty-gritty of progressive scan sequence design. (If you want to provide user control of scan sequences, you may wish to borrow the scan script reading code found in rdswitch.c, so that you can read scan script files just like cjpeg's.) When scan_info is not NULL, the compression library will store DCT'd data into a buffer array as jpeg_write_scanlines() is called, and will emit all the requested scans during jpeg_finish_compress(). This implies that multiple-scan output cannot be created with a suspending data destination manager, since jpeg_finish_compress() does not support suspension. We should also note that the compressor currently forces Huffman optimization mode when creating a progressive JPEG file, because the default Huffman tables are unsuitable for progressive files.

Progressive decompression:

When buffered-image mode is not used, the decoder library will read all of a multi-scan file during jpeg_start_decompress(), so that it can provide a final decoded image. (Here "multi-scan" means either progressive or multi-scan sequential.) This makes multi-scan files transparent to the decoding application. However, existing applications that used suspending input with version 5 of the IJG library will need to be modified to check for a suspension return from jpeg_start_decompress().

To perform incremental display, an application must use the library's buffered-image mode. This is described in the next section.
Buffered-image mode

In buffered-image mode, the library stores the partially decoded image in a coefficient buffer, from which it can be read out as many times as desired. This mode is typically used for incremental display of progressive JPEG files, but it can be used with any JPEG file. Each scan of a progressive JPEG file adds more data (more detail) to the buffered image. The application can display in lockstep with the source file (one display pass per input scan), or it can allow input processing to outrun display processing. By making input and display processing run independently, it is possible for the application to adapt progressive display to a wide range of data transmission rates.

The basic control flow for buffered-image decoding is

```c
jpeg_create_decompress()
set data source
jpeg_read_header()
set overall decompression parameters
cinfo.buffered_image = TRUE; /* select buffered-image mode */
jpeg_start_decompress()
for (each output pass) {
    adjust output decompression parameters if required
    jpeg_start_output(); /* start a new output pass */
    for (all scanlines in image) {
        jpeg_read_scanlines()
        display scanlines
    }
    jpeg_finish_output(); /* terminate output pass */
}
jpeg_finish_decompress()
jpeg_destroy_decompress()
```

This differs from ordinary unbuffered decoding in that there is an additional level of looping. The application can choose how many output passes to make and how to display each pass.

The simplest approach to displaying progressive images is to do one display pass for each scan appearing in the input file. In this case the outer loop condition is typically

```c
while (! jpeg_input_complete(&cinfo))
```

and the start-output call should read

```c
jpeg_start_output(&cinfo, cinfo.input_scan_number);
```

The second parameter to jpeg_start_output() indicates which scan of the input file is to be displayed; the scans are numbered starting at 1 for this
purpose. (You can use a loop counter starting at 1 if you like, but using
the library's input scan counter is easier.) The library automatically reads
data as necessary to complete each requested scan, and jpeg_finish_output() advances to the next scan or end-of-image marker (hence input_scan_number will be incremented by the time control arrives back at jpeg_start_output()). With this technique, data is read from the input file only as needed, and input and output processing run in lockstep.

After reading the final scan and reaching the end of the input file, the buffered image remains available; it can be read additional times by repeating the jpeg_start_output()/jpeg_read_scanlines()/jpeg_finish_output() sequence. For example, a useful technique is to use fast one-pass color quantization for display passes made while the image is arriving, followed by a final display pass using two-pass quantization for highest quality. This is done by changing the library parameters before the final output pass. Changing parameters between passes is discussed in detail below.

In general the last scan of a progressive file cannot be recognized as such until after it is read, so a post-input display pass is the best approach if you want special processing in the final pass.

When done with the image, be sure to call jpeg_finish_decompress() to release the buffered image (or just use jpeg_destroy_decompress()).

If input data arrives faster than it can be displayed, the application can cause the library to decode input data in advance of what’s needed to produce output. This is done by calling the routine jpeg_consume_input(). The return value is one of the following:

- JPEG_REACHED_SOS: reached an SOS marker (the start of a new scan)
- JPEG_REACHED_EOI: reached the EOI marker (end of image)
- JPEG_ROW_COMPLETED: completed reading one MCU row of compressed data
- JPEG_SCAN_COMPLETED: completed reading last MCU row of current scan
- JPEG_SUSPENDED: suspended before completing any of the above

(JPEG_SUSPENDED can occur only if a suspending data source is used.) This routine can be called at any time after initializing the JPEG object. It reads some additional data and returns when one of the indicated significant events occurs. (If called after the EOI marker is reached, it will immediately return JPEG_REACHED_EOI without attempting to read more data.)

The library's output processing will automatically call jpeg_consume_input() whenever the output processing overtakes the input; thus, simple lockstep display requires no direct calls to jpeg_consume_input(). But by adding calls to jpeg_consume_input(), you can absorb data in advance of what is being displayed. This has two benefits:

* You can limit buildup of unprocessed data in your input buffer.
* You can eliminate extra display passes by paying attention to the state of the library's input processing.
The first of these benefits only requires interspersing calls to `jpeg_consume_input()` with your display operations and any other processing you may be doing. To avoid wasting cycles due to backtracking, it's best to call `jpeg_consume_input()` only after a hundred or so new bytes have arrived. This is discussed further under “I/O suspension”, above. (Note: the JPEG library currently is not thread-safe. You must not call `jpeg_consume_input()` from one thread of control if a different library routine is working on the same JPEG object in another thread.)

When input arrives fast enough that more than one new scan is available before you start a new output pass, you may as well skip the output pass corresponding to the completed scan. This occurs for free if you pass `cinfo.input_scan_number` as the target scan number to `jpeg_start_output()`. The `input_scan_number` field is simply the index of the scan currently being consumed by the input processor. You can ensure that this is up-to-date by emptying the input buffer just before calling `jpeg_start_output()`: call `jpeg_consume_input()` repeatedly until it returns JPEG_SUSPENDED or JPEG_REACHED_EOI.

The target scan number passed to `jpeg_start_output()` is saved in the `cinfo.output_scan_number` field. The library's output processing calls `jpeg_consume_input()` whenever the current input scan number and row within that scan is less than or equal to the current output scan number and row. Thus, input processing can "get ahead" of the output processing but is not allowed to "fall behind". You can achieve several different effects by manipulating this interlock rule. For example, if you pass a target scan number greater than the current input scan number, the output processor will wait until that scan starts to arrive before producing any output. (To avoid an infinite loop, the target scan number is automatically reset to the last scan number when the end of image is reached. Thus, if you specify a large target scan number, the library will just absorb the entire input file and then perform an output pass. This is effectively the same as what `jpeg_start_decompress()` does when you don't select buffered-image mode.)

When you pass a target scan number equal to the current input scan number, the image is displayed no faster than the current input scan arrives. The final possibility is to pass a target scan number less than the current input scan number; this disables the input/output interlock and causes the output processor to simply display whatever it finds in the image buffer, without waiting for input. (However, the library will not accept a target scan number less than one, so you can't avoid waiting for the first scan.)

When data is arriving faster than the output display processing can advance through the image, `jpeg_consume_input()` will store data into the buffered image beyond the point at which the output processing is reading data out again. If the input arrives fast enough, it may "wrap around" the buffer to the point where the input is more than one whole scan ahead of the output. If the output processing simply proceeds through its display pass without paying attention to the input, the effect seen on-screen is that the lower
When the next output scan is started, you have a choice of what target scan number to use. The recommended choice is to use the current input scan number at that time, which implies that you've skipped the output scans corresponding to the input scans that were completed while you processed the previous output scan. In this way, the decoder automatically adapts its speed to the arriving data, by skipping output scans as necessary to keep up with the arriving data.

When using this strategy, you'll want to be sure that you perform a final output pass after receiving all the data; otherwise your last display may not be full quality across the whole screen. So the right outer loop logic is something like this:

```c
do {
    final_pass = jpeg_input_complete(&cinfo);
    if (final_pass) {
        jpeg_start_output(&cinfo, cinfo.input_scan_number);
        ...
        jpeg_finish_output()
    }
} while (! final_pass);
```

rather than quitting as soon as `jpeg_input_complete()` returns TRUE. This arrangement makes it simple to use higher-quality decoding parameters for the final pass. But if you don't want to use special parameters for the final pass, the right loop logic is like this:

```c
for (;;) {
    jpeg_start_output(&cinfo, cinfo.input_scan_number);
    ...
    jpeg_finish_output()
    if (jpeg_input_complete(&cinfo) &&
        cinfo.input_scan_number == cinfo.output_scan_number)
        break;
}
```

In this case you don't need to know in advance whether an output pass is to be the last one, so it's not necessary to have reached EOF before starting the final output pass; rather, what you want to test is whether the output pass was performed in sync with the final input scan. This form of the loop will avoid an extra output pass whenever the decoder is able (or nearly able) to keep up with the incoming data.

When the data transmission speed is high, you might begin a display pass, then find that much or all of the file has arrived before you can complete the pass. (You can detect this by noting the JPEG_REACHED_EOI return code from `jpeg_consume_input()`, or equivalently by testing `jpeg_input_complete()`.) In this situation you may wish to abort the current display pass and start a new one using the newly arrived information. To do so, just call `jpeg_finish_output()` and then start a new pass with `jpeg_start_output()`.
A variant strategy is to abort and restart display if more than one complete scan arrives during an output pass; this can be detected by noting JPEG_REACHED_SOS returns and/or examining cinfo.input_scan_number. This idea should be employed with caution, however, since the display process might never get to the bottom of the image before being aborted, resulting in the lower part of the screen being several passes worse than the upper. In most cases it's probably best to abort an output pass only if the whole file has arrived and you want to begin the final output pass immediately.

When receiving data across a communication link, we recommend always using the current input scan number for the output target scan number; if a higher-quality final pass is to be done, it should be started (aborting any incomplete output pass) as soon as the end of file is received. However, many other strategies are possible. For example, the application can examine the parameters of the current input scan and decide whether to display it or not. If the scan contains only chroma data, one might choose not to use it as the target scan, expecting that the scan will be small and will arrive quickly. To skip to the next scan, call jpeg_consume_input() until it returns JPEG_REACHED_SOS or JPEG_REACHED_EOI. Or just use the next higher number as the target scan for jpeg_start_output(); but that method doesn't let you inspect the next scan's parameters before deciding to display it.

In buffered-image mode, jpeg_start_decompress() never performs input and thus never suspends. An application that uses input suspension with buffered-image mode must be prepared for suspension returns from these routines:
* jpeg_start_output() performs input only if you request 2-pass quantization and the target scan isn't fully read yet. (This is discussed below.)
* jpeg_read_scanlines(), as always, returns the number of scanlines that it was able to produce before suspending.
* jpeg_finish_output() will read any markers following the target scan, up to the end of the file or the SOS marker that begins another scan. (But it reads no input if jpeg_consume_input() has already reached the end of the file or a SOS marker beyond the target output scan.)
* jpeg_finish_decompress() will read until the end of file, and thus can suspend if the end hasn't already been reached (as can be tested by calling jpeg_input_complete()).
jpeg_start_output(), jpeg_finish_output(), and jpeg_finish_decompress() all return TRUE if they completed their tasks, FALSE if they had to suspend. In the event of a FALSE return, the application must load more input data and repeat the call. Applications that use non-suspending data sources need not check the return values of these three routines.

It is possible to change decoding parameters between output passes in the buffered-image mode. The decoder library currently supports only very
limited changes of parameters. ONLY THE FOLLOWING parameter changes are allowed after jpeg_start_decompress() is called:
* dct_method can be changed before each call to jpeg_start_output().

For example, one could use a fast DCT method for early scans, changing to a higher quality method for the final scan.
* dither_mode can be changed before each call to jpeg_start_output(); of course this has no impact if not using color quantization. Typically one would use ordered dither for initial passes, then switch to Floyd-Steinberg dither for the final pass. Caution: changing dither mode can cause more memory to be allocated by the library. Although the amount of memory involved is not large (a scanline or so), it may cause the initial max_memory_to_use specification to be exceeded, which in the worst case would result in an out-of-memory failure.
* do_block_smoothing can be changed before each call to jpeg_start_output(). This setting is relevant only when decoding a progressive JPEG image. During the first DC-only scan, block smoothing provides a very "fuzzy" look instead of the very "blocky" look seen without it; which is better seems a matter of personal taste. But block smoothing is nearly always a win during later stages, especially when decoding a successive-approximation image: smoothing helps to hide the slight blockiness that otherwise shows up on smooth gradients until the lowest coefficient bits are sent.
* Color quantization mode can be changed under the rules described below. You *cannot* change between full-color and quantized output (because that would alter the required I/O buffer sizes), but you can change which quantization method is used.

When generating color-quantized output, changing quantization method is a very useful way of switching between high-speed and high-quality display. The library allows you to change among its three quantization methods:
1. Single-pass quantization to a fixed color cube. Selected by cinfo.two_pass_quantize = FALSE and cinfo.colormap = NULL.
2. Single-pass quantization to an application-supplied colormap. Selected by setting cinfo.colormap to point to the colormap (the value of two_pass_quantize is ignored); also set cinfo.actual_number_of_colors.
3. Two-pass quantization to a colormap chosen specifically for the image. Selected by cinfo.two_pass_quantize = TRUE and cinfo.colormap = NULL. (This is the default setting selected by jpeg_read_header, but it is probably NOT what you want for the first pass of progressive display!)

These methods offer successively better quality and lesser speed. However, only the first method is available for quantizing in non-RGB color spaces.

IMPORTANT: because the different quantizer methods have very different working-storage requirements, the library requires you to indicate which one(s) you intend to use before you call jpeg_start_decompress(). (If we did not require this, the max_memory_to_use setting would be a complete fiction.) You do this by setting one or more of these three cinfo fields to TRUE:
enable_1pass_quantFixed color cube colormap
enable_external_quantExternally-supplied colormap
enable_2pass_quant
Two-pass custom colormap

All three are initialized FALSE by jpeg_read_header(). But
jpeg_start_decompress() automatically sets TRUE the one selected by the
current two_pass_quantize and colormap settings, so you only need to set the
enable flags for any other quantization methods you plan to change to later.

After setting the enable flags correctly at jpeg_start_decompress() time, you
can change to any enabled quantization method by setting two_pass_quantize
and colormap properly just before calling jpeg_start_output(). The following
special rules apply:

1. You must explicitly set cinfo.colormap to NULL when switching to 1-pass
   or 2-pass mode from a different mode, or when you want the 2-pass
   quantizer to be re-run to generate a new colormap.
2. To switch to an external colormap, or to change to a different external
colormap than was used on the prior pass, you must call
   jpeg_new_colormap() after setting cinfo.colormap.
NOTE: if you want to use the same colormap as was used in the prior pass,
you should not do either of these things. This will save some nontrivial
switchover costs.

(These requirements exist because cinfo.colormap will always be non-NULL
after completing a prior output pass, since both the 1-pass and 2-pass
quantizers set it to point to their output colormaps. Thus you have to
do one of these two things to notify the library that something has changed.
Yup, it's a bit klugy, but it's necessary to do it this way for backwards
compatibility.)

Note that in buffered-image mode, the library generates any requested colormap
during jpeg_start_output(), not during jpeg_start_decompress().

When using two-pass quantization, jpeg_start_output() makes a pass over the
buffered image to determine the optimum color map; it therefore may take a
significant amount of time, whereas ordinarily it does little work. The
progress monitor hook is called during this pass, if defined. It is also
important to realize that if the specified target scan number is greater than
or equal to the current input scan number, jpeg_start_output() will attempt
to consume input as it makes this pass. If you use a suspending data source,
you need to check for a FALSE return from jpeg_start_output() under these
conditions. The combination of 2-pass quantization and a not-yet-fully-read
target scan is the only case in which jpeg_start_output() will consume input.

Application authors who support buffered-image mode may be tempted to use it
for all JPEG images, even single-scan ones. This will work, but it is
inefficient: there is no need to create an image-sized coefficient buffer for
single-scan images. Requesting buffered-image mode for such an image wastes
memory. Worse, it can cost time on large images, since the buffered data has
to be swapped out or written to a temporary file. If you are concerned about
maximum performance on baseline JPEG files, you should use buffered-image
mode only when the incoming file actually has multiple scans. This can be
tested by calling jpeg_has_multiple_scans(), which will return a correct
result at any time after jpeg_read_header() completes.

It is also worth noting that when you use jpeg_consume_input() to let input
processing get ahead of output processing, the resulting pattern of access to
the coefficient buffer is quite nonsequential. It's best to use the memory
manager jmemnobs.c if you can (ie, if you have enough real or virtual main
memory). If not, at least make sure that max_memory_to_use is set as high as
possible. If the JPEG memory manager has to use a temporary file, you will
probably see a lot of disk traffic and poor performance. (This could be
improved with additional work on the memory manager, but we haven't gotten
around to it yet.)

In some applications it may be convenient to use jpeg_consume_input() for all
input processing, including reading the initial markers; that is, you may
wish to call jpeg_consume_input() instead of jpeg_read_header() during
startup. This works, but note that you must check for JPEG_REACHED_SOS and
JPEG_REACHED_EOI return codes as the equivalent of jpeg_read_header's codes.
Once the first SOS marker has been reached, you must call
jpeg_start_decompress() before jpeg_consume_input() will consume more input;
it'll just keep returning JPEG_REACHED_SOS until you do. If you read a
tables-only file this way, jpeg_consume_input() will return JPEG_REACHED_EOI
without ever returning JPEG_REACHED_SOS; be sure to check for this case.
If this happens, the decompressor will not read any more input until you call
jpeg_abort() to reset it. It is OK to call jpeg_consume_input() even when not
using buffered-image mode, but in that case it's basically a no-op after the
initial markers have been read: it will just return JPEG_SUSPENDED.

Abbreviated datastreams and multiple images
---------------------------------------------

A JPEG compression or decompression object can be reused to process multiple
images. This saves a small amount of time per image by eliminating the
"create" and "destroy" operations, but that isn't the real purpose of the
feature. Rather, reuse of an object provides support for abbreviated JPEG
datastreams. Object reuse can also simplify processing a series of images in
a single input or output file. This section explains these features.

A JPEG file normally contains several hundred bytes worth of quantization
and Huffman tables. In a situation where many images will be stored or
transmitted with identical tables, this may represent an annoying overhead.
The JPEG standard therefore permits tables to be omitted. The standard
defines three classes of JPEG datastreams:
* "Interchange" datastreams contain an image and all tables needed to decode
  the image. These are the usual kind of JPEG file.
* "Abbreviated image" datastreams contain an image, but are missing some or
all of the tables needed to decode that image.

* "Abbreviated table specification" (henceforth "tables-only") datastreams contain only table specifications.

To decode an abbreviated image, it is necessary to load the missing table(s) into the decoder beforehand. This can be accomplished by reading a separate tables-only file. A variant scheme uses a series of images in which the first image is an interchange (complete) datastream, while subsequent ones are abbreviated and rely on the tables loaded by the first image. It is assumed that once the decoder has read a table, it will remember that table until a new definition for the same table number is encountered.

It is the application designer's responsibility to figure out how to associate the correct tables with an abbreviated image. While abbreviated datastreams can be useful in a closed environment, their use is strongly discouraged in any situation where data exchange with other applications might be needed. Caveat designer.

The JPEG library provides support for reading and writing any combination of tables-only datastreams and abbreviated images. In both compression and decompression objects, a quantization or Huffman table will be retained for the lifetime of the object, unless it is overwritten by a new table definition.

To create abbreviated image datastreams, it is only necessary to tell the compressor not to emit some or all of the tables it is using. Each quantization and Huffman table struct contains a boolean field "sent_table", which normally is initialized to FALSE. For each table used by the image, the header-writing process emits the table and sets sent_table = TRUE unless it is already TRUE. (In normal usage, this prevents outputting the same table definition multiple times, as would otherwise occur because the chroma components typically share tables.) Thus, setting this field to TRUE before calling jpeg_start_compress() will prevent the table from being written at all.

If you want to create a "pure" abbreviated image file containing no tables, just call "jpeg_suppress_tables(&cinfo, TRUE)" after constructing all the tables. If you want to emit some but not all tables, you'll need to set the individual sent_table fields directly.

To create an abbreviated image, you must also call jpeg_start_compress() with a second parameter of FALSE, not TRUE. Otherwise jpeg_start_compress() will force all the sent_table fields to FALSE. (This is a safety feature to prevent abbreviated images from being created accidentally.)

To create a tables-only file, perform the same parameter setup that you normally would, but instead of calling jpeg_start_compress() and so on, call jpeg_write_tables(&cinfo). This will write an abbreviated datastream containing only SOI, DQT and/or DHT markers, and EOI. All the quantization
and Huffman tables that are currently defined in the compression object will be emitted unless their sent_tables flag is already TRUE, and then all the sent_tables flags will be set TRUE.

A sure-fire way to create matching tables-only and abbreviated image files is to proceed as follows:

create JPEG compression object
set JPEG parameters
set destination to tables-only file
jpeg_write_tables(&cinfo);
set destination to image file
jpeg_start_compress(&cinfo, FALSE);
write data...
jpeg_finish_compress(&cinfo);

Since the JPEG parameters are not altered between writing the table file and the abbreviated image file, the same tables are sure to be used. Of course, you can repeat the jpeg_start_compress() ... jpeg_finish_compress() sequence many times to produce many abbreviated image files matching the table file.

You cannot suppress output of the computed Huffman tables when Huffman optimization is selected. (If you could, there'd be no way to decode the image...) Generally, you don't want to set optimize_coding = TRUE when you are trying to produce abbreviated files.

In some cases you might want to compress an image using tables which are not stored in the application, but are defined in an interchange or tables-only file readable by the application. This can be done by setting up a JPEG decompression object to read the specification file, then copying the tables into your compression object. See jpeg_copy_critical_parameters() for an example of copying quantization tables.

To read abbreviated image files, you simply need to load the proper tables into the decompression object before trying to read the abbreviated image. If the proper tables are stored in the application program, you can just allocate the table structs and fill in their contents directly. For example, to load a fixed quantization table into table slot "n":

if (cinfo.quant_tbl_ptrs[n] == NULL)
   cinfo.quant_tbl_ptrs[n] = jpeg_alloc_quant_table(j_common_ptr) &cinfo);
quant_ptr = cinfo.quant_tbl_ptrs[n]/ quant_ptr is JQUANT_TBL* */
for (i = 0; i < 64; i++) {
   /* Qtable[] is desired quantization table, in natural array order */
   quant_ptr->quantval[i] = Qtable[i];
}
Code to load a fixed Huffman table is typically (for AC table "n"):

```c
if (cinfo.ac_huff_tbl_ptrs[n] == NULL)
    cinfo.ac_huff_tbl_ptrs[n] = jpeg_alloc_huff_table((j_common_ptr) &cinfo);

huff_ptr = cinfo.ac_huff_tbl_ptrs[n];/* huff_ptr is JHUFF_TBL */
for (i = 1; i <= 16; i++) {
    /* counts[i] is number of Huffman codes of length i bits, i=1..16 */
    huff_ptr->bits[i] = counts[i];
}
for (i = 0; i < 256; i++) {
    /* symbols[] is the list of Huffman symbols, in code-length order */
    huff_ptr->huffval[i] = symbols[i];
}
```

(Note that trying to set cinfo.quant_tbl_ptrs[n] to point directly at a constant JQUANT_TBL object is not safe. If the incoming file happened to contain a quantization table definition, your master table would get overwritten! Instead allocate a working table copy and copy the master table into it, as illustrated above. Ditto for Huffman tables, of course.)

You might want to read the tables from a tables-only file, rather than hard-wiring them into your application. The jpeg_read_header() call is sufficient to read a tables-only file. You must pass a second parameter of FALSE to indicate that you do not require an image to be present. Thus, the typical scenario is

create JPEG decompression object
set source to tables-only file
jpeg_read_header(&cinfo, FALSE);
set source to abbreviated image file
jpeg_read_header(&cinfo, TRUE);
set decompression parameters
jpeg_start_decompress(&cinfo);
read data...
jpeg_finish_decompress(&cinfo);

In some cases, you may want to read a file without knowing whether it contains an image or just tables. In that case, pass FALSE and check the return value from jpeg_read_header(): it will be JPEG_HEADER_OK if an image was found, JPEG_HEADER_TABLES_ONLY if only tables were found. (A third return value, JPEG_SUSPENDED, is possible when using a suspending data source manager.) Note that jpeg_read_header() will not complain if you read an abbreviated image for which you haven't loaded the missing tables; the missing-table check occurs later, in jpeg_start_decompress().

It is possible to read a series of images from a single source file by repeating the jpeg_read_header() ... jpeg_finish_decompress() sequence,
without releasing/recreating the JPEG object or the data source module. (If you did reinitialize, any partial bufferload left in the data source buffer at the end of one image would be discarded, causing you to lose the start of the next image.) When you use this method, stored tables are automatically carried forward, so some of the images can be abbreviated images that depend on tables from earlier images.

If you intend to write a series of images into a single destination file, you might want to make a specialized data destination module that doesn't flush the output buffer at term_destination() time. This would speed things up by some trifling amount. Of course, you'd need to remember to flush the buffer after the last image. You can make the later images be abbreviated ones by passing FALSE to jpeg_start_compress().

Special markers

Some applications may need to insert or extract special data in the JPEG datastream. The JPEG standard provides marker types "COM" (comment) and "APP0" through "APP15" (application) to hold application-specific data. Unfortunately, the use of these markers is not specified by the standard. COM markers are fairly widely used to hold user-supplied text. The JFIF file format spec uses APP0 markers with specified initial strings to hold certain data. Adobe applications use APP14 markers beginning with the string "Adobe" for miscellaneous data. Other APPn markers are rarely seen, but might contain almost anything.

If you wish to store user-supplied text, we recommend you use COM markers and place readable 7-bit ASCII text in them. Newline conventions are not standardized --- expect to find LF (Unix style), CR/LF (DOS style), or CR (Mac style). A robust COM reader should be able to cope with random binary garbage, including nulls, since some applications generate COM markers containing non-ASCII junk. (But yours should not be one of them.)

For program-supplied data, use an APPn marker, and be sure to begin it with an identifying string so that you can tell whether the marker is actually yours. It's probably best to avoid using APP0 or APP14 for any private markers. (NOTE: the upcoming SPIFF standard will use APP8 markers; we recommend you not use APP8 markers for any private purposes, either.)

Keep in mind that at most 65533 bytes can be put into one marker, but you can have as many markers as you like.

By default, the IJG compression library will write a JFIF APP0 marker if the selected JPEG colorspace is grayscale or YCbCr, or an Adobe APP14 marker if the selected colorspace is RGB, CMYK, or YCCK. You can disable this, but we don't recommend it. The decompression library will recognize JFIF and
Adobe markers and will set the JPEG colorspace properly when one is found.

You can write special markers immediately following the datastream header by calling jpeg_write_marker() after jpeg_start_compress() and before the first call to jpeg_write_scanlines(). When you do this, the markers appear after the SOI and the JFIF APP0 and Adobe APP14 markers (if written), but before all else. Specify the marker type parameter as "JPEG_COM" for COM or "JPEG_APP0 + n" for APPn. (Actually, jpeg_write_marker will let you write any marker type, but we don't recommend writing any other kinds of marker.) For example, to write a user comment string pointed to by comment_text:

jpeg_write_marker(cinfo, JPEG_COM, comment_text, strlen(comment_text));

If it's not convenient to store all the marker data in memory at once, you can instead call jpeg_write_m_header() followed by multiple calls to jpeg_write_m_byte(). If you do it this way, it's your responsibility to call jpeg_write_m_byte() exactly the number of times given in the length parameter to jpeg_write_m_header(). (This method lets you empty the output buffer partway through a marker, which might be important when using a suspending data destination module. In any case, if you are using a suspending destination, you should flush its buffer after inserting any special markers. See "I/O suspension").

Or, if you prefer to synthesize the marker byte sequence yourself, you can just cram it straight into the data destination module.

If you are writing JFIF 1.02 extension markers (thumbnail images), don't forget to set cinfo.JFIF_minor_version = 2 so that the encoder will write the correct JFIF version number in the JFIF header marker. The library's default is to write version 1.01, but that's wrong if you insert any 1.02 extension markers. (We could probably get away with just defaulting to 1.02, but there used to be broken decoders that would complain about unknown minor version numbers. To reduce compatibility risks it's safest not to write 1.02 unless you are actually using 1.02 extensions.)

When reading, two methods of handling special markers are available:
1. You can ask the library to save the contents of COM and/or APPn markers into memory, and then examine them at your leisure afterwards.
2. You can supply your own routine to process COM and/or APPn markers on-the-fly as they are read.

The first method is simpler to use, especially if you are using a suspending data source; writing a marker processor that copes with input suspension is not easy (consider what happens if the marker is longer than your available input buffer). However, the second method conserves memory since the marker data need not be kept around after it's been processed.

For either method, you'd normally set up marker handling after creating a
decompression object and before calling jpeg_read_header(), because the
markers of interest will typically be near the head of the file and so will
be scanned by jpeg_read_header. Once you've established a marker handling
method, it will be used for the life of that decompression object
(potentially many datastreams), unless you change it. Marker handling is
determined separately for COM markers and for each APPn marker code.

To save the contents of special markers in memory, call
jpeg_save_markers(cinfo, marker_code, length_limit)
where marker_code is the marker type to save, JPEG_COM or JPEG_APP0+n.
(To arrange to save all the special marker types, you need to call this
routine 17 times, for COM and APP0-APP15.) If the incoming marker is longer
than length_limit data bytes, only length_limit bytes will be saved; this
parameter allows you to avoid chewing up memory when you only need to see the
first few bytes of a potentially large marker. If you want to save all the
data, set length_limit to 0xFFFF; that is enough since marker lengths are only
16 bits. As a special case, setting length_limit to 0 prevents that marker
type from being saved at all. (That is the default behavior, in fact.)

After jpeg_read_header() completes, you can examine the special markers by
following the cinfo->marker_list pointer chain. All the special markers in
the file appear in this list, in order of their occurrence in the file (but
omitting any markers of types you didn't ask for). Both the original data
length and the saved data length are recorded for each list entry; the latter
will not exceed length_limit for the particular marker type. Note that these
lengths exclude the marker length word, whereas the stored representation
within the JPEG file includes it. (Hence the maximum data length is really
only 65533.)

It is possible that additional special markers appear in the file beyond the
SOS marker at which jpeg_read_header stops; if so, the marker list will be
extended during reading of the rest of the file. This is not expected to be
common, however. If you are short on memory you may want to reset the length
limit to zero for all marker types after finishing jpeg_read_header, to
ensure that the max_memory_to_use setting cannot be exceeded due to addition
of later markers.

The marker list remains stored until you call jpeg_finish_decompress or
jpeg_abort, at which point the memory is freed and the list is set to empty.
(jpeg_destroy also releases the storage, of course.)

Note that the library is internally interested in APP0 and APP14 markers;
if you try to set a small nonzero length limit on these types, the library
will silently force the length up to the minimum it wants. (But you can set
a zero length limit to prevent them from being saved at all.) Also, in a
16-bit environment, the maximum length limit may be constrained to less than
65533 by malloc() limitations. It is therefore best not to assume that the
effective length limit is exactly what you set it to be.

If you want to supply your own marker-reading routine, you do it by calling jpeg_set_marker_processor(). A marker processor routine must have the signature

```c
boolean jpeg_marker_parser_method (j_decompress_ptr cinfo)
```

Although the marker code is not explicitly passed, the routine can find it in cinfo->unread_marker. At the time of call, the marker proper has been read from the data source module. The processor routine is responsible for reading the marker length word and the remaining parameter bytes, if any. Return TRUE to indicate success. (FALSE should be returned only if you are using a suspending data source and it tells you to suspend. See the standard marker processors in jdmarker.c for appropriate coding methods if you need to use a suspending data source.)

If you override the default APP0 or APP14 processors, it is up to you to recognize JFIF and Adobe markers if you want colorspace recognition to occur properly. We recommend copying and extending the default processors if you want to do that. (A better idea is to save these marker types for later examination by calling jpeg_save_markers(); that method doesn't interfere with the library's own processing of these markers.)

jpeg_set_marker_processor() and jpeg_save_markers() are mutually exclusive --- if you call one it overrides any previous call to the other, for the particular marker type specified.

A simple example of an external COM processor can be found in djpeg.c. Also, see jpegtran.c for an example of using jpeg_save_markers.

Raw (downsampled) image data
-----------------------------

Some applications need to supply already-downsampled image data to the JPEG compressor, or to receive raw downsampled data from the decompressor. The library supports this requirement by allowing the application to write or read raw data, bypassing the normal preprocessing or postprocessing steps. The interface is different from the standard one and is somewhat harder to use. If your interest is merely in bypassing color conversion, we recommend that you use the standard interface and simply set jpeg_color_space = in_color_space (or jpeg_color_space = out_color_space for decompression). The mechanism described in this section is necessary only to supply or receive downsampled image data, in which not all components have the same dimensions.

To compress raw data, you must supply the data in the colorspace to be used
in the JPEG file (please read the earlier section on Special color spaces)
and downscaled to the sampling factors specified in the JPEG parameters.
You must supply the data in the format used internally by the JPEG library,
namely a JSAMPIMAGE array. This is an array of pointers to two-dimensional
arrays, each of type JSAMPARRAY. Each 2-D array holds the values for one
color component. This structure is necessary since the components are of
different sizes. If the image dimensions are not a multiple of the MCU size,
you must also pad the data correctly (usually, this is done by replicating
the last column and/or row). The data must be padded to a multiple of a DCT
block in each component: that is, each downscaled row must contain a
multiple of DCT_h_scaled_size valid samples, and there must be a multiple of
DCT_v_scaled_size sample rows for each component. (For applications such as
conversion of digital TV images, the standard image size is usually a
multiple of the DCT block size, so that no padding need actually be done.)

The procedure for compression of raw data is basically the same as normal
compression, except that you call jpeg_write_raw_data() in place of
jpeg_write_scanlines(). Before calling jpeg_start_compress(), you must do
the following:
* Set cinfo->raw_data_in to TRUE. (It is set FALSE by jpeg_set_defaults().)
  This notifies the library that you will be supplying raw data.
* Ensure jpeg_color_space is correct --- an explicit jpeg_set_colorspace()
  call is a good idea. Note that since color conversion is bypassed,
  in_color_space is ignored, except that jpeg_set_defaults() uses it to
  choose the default jpeg_color_space setting.
* Ensure the sampling factors, cinfo->comp_info[i].h_samp_factor and
  cinfo->comp_info[i].v_samp_factor, are correct. Since these indicate the
dimensions of the data you are supplying, it's wise to set them
explicitly, rather than assuming the library's defaults are what you want.

To pass raw data to the library, call jpeg_write_raw_data() in place of
jpeg_write_scanlines(). The two routines work similarly except that
jpeg_write_raw_data takes a JSAMPIMAGE data array rather than JSAMPARRAY.
The scanlines count passed to and returned from jpeg_write_raw_data is
measured in terms of the component with the largest v_samp_factor.

jpeg_write_raw_data() processes one MCU row per call, which is to say
v_samp_factor*min_DCT_v_scaled_size sample rows of each component. The passed
num_lines value must be at least max(v_samp_factor*min_DCT_v_scaled_size, and
the return value will be exactly that amount (or possibly some multiple of
that amount, in future library versions). This is true even on the last call
at the bottom of the image; don't forget to pad your data as necessary.

The required dimensions of the supplied data can be computed for each
component as
cinfo->comp_info[i].width_in_blocks *
cinfo->comp_info[i].DCT_h_scaled_size samples per row
cinfo->comp_info[i].height_in_blocks *
cinfo->comp_info[i].DCT_v_scaled_size in image
after jpeg_start_compress() has initialized those fields. If the valid data
is smaller than this, it must be padded appropriately. For some sampling
factors and image sizes, additional dummy DCT blocks are inserted to make
the image a multiple of the MCU dimensions. The library creates such dummy
blocks itself; it does not read them from your supplied data. Therefore you
need never pad by more than DCT_scaled_size samples.

An example may help here. Assume 2h2v downsampling of YCbCr data, that is
cinfo->comp_info[0].h_samp_factor = 2 for Y
cinfo->comp_info[0].v_samp_factor = 2
cinfo->comp_info[1].h_samp_factor = 1 for Cb
cinfo->comp_info[1].v_samp_factor = 1
cinfo->comp_info[2].h_samp_factor = 1 for Cr
cinfo->comp_info[2].v_samp_factor = 1

and suppose that the nominal image dimensions (cinfo->image_width and
cinfo->image_height) are 101x101 pixels. Then jpeg_start_compress() will
compute downsampled_width = 101 and width_in_blocks = 13 for Y,
downscaled_width = 51 and width_in_blocks = 7 for Cb and Cr (and the same
for the height fields). You must pad the Y data to at least 13*8 = 104
columns and rows, the Cb/Cr data to at least 7*8 = 56 columns and rows. The
MCU height is max_v_samp_factor = 2 DCT rows so you must pass at least 16
scanlines on each call to jpeg_write_raw_data(), which is to say 16 actual
sample rows of Y and 8 each of Cb and Cr. A total of 7 MCU rows are needed,
so you must pass a total of 7*16 = 112 "scanlines". The last DCT block row
of Y data is dummy, so it doesn't matter what you pass for it in the data
arrays, but the scanlines count must total up to 112 so that all of the Cb
and Cr data gets passed.

Output suspension is supported with raw-data compression: if the data
destination module suspends, jpeg_write_raw_data() will return 0.
In this case the same data rows must be passed again on the next call.

Decompression with raw data output implies bypassing all postprocessing:
you cannot ask for color quantization, for instance. More seriously, you
must deal with the color space and sampling factors present in the incoming
file. If your application only handles, say, 2h1v YCbCr data, you must
check for and fail on other color spaces or other sampling factors.
The library will not convert to a different color space for you.

To obtain raw data output, set cinfo->raw_data_out = TRUE before
jpeg_start_decompress() (it is set FALSE by jpeg_read_header()). Be sure to
verify that the color space and sampling factors are ones you can handle.
Then call jpeg_read_raw_data() in place of jpeg_read_scanlines(). The
decompression process is otherwise the same as usual.

jpeg_read_raw_data() returns one MCU row per call, and thus you must pass a
buffer of at least max_v_samp_factor*min_DCT_v_scaled_size scanlines (scanline
counting is the same as for raw-data compression). The buffer you pass must be large enough to hold the actual data plus padding to DCT-block boundaries. As with compression, any entirely dummy DCT blocks are not processed so you need not allocate space for them, but the total scanline count includes them. The above example of computing buffer dimensions for raw-data compression is equally valid for decompression.

Input suspension is supported with raw-data decompression: if the data source module suspends, jpeg_read_raw_data() will return 0. You can also use buffered-image mode to read raw data in multiple passes.

Really raw data: DCT coefficients

It is possible to read or write the contents of a JPEG file as raw DCT coefficients. This facility is mainly intended for use in lossless transcoding between different JPEG file formats. Other possible applications include lossless cropping of a JPEG image, lossless reassembly of a multi-strip or multi-tile TIFF/JPEG file into a single JPEG datastream, etc.

To read the contents of a JPEG file as DCT coefficients, open the file and do jpeg_read_header() as usual. But instead of calling jpeg_start_decompress() and jpeg_read_scanlines(), call jpeg_read_coefficients(). This will read the entire image into a set of virtual coefficient-block arrays, one array per component. The return value is a pointer to an array of virtual-array descriptors. Each virtual array can be accessed directly using the JPEG memory manager's access_virt_barray method (see Memory management, below, and also read structure.txt's discussion of virtual array handling). Or, for simple transcoding to a different JPEG file format, the array list can just be handed directly to jpeg_write_coefficients().

Each block in the block arrays contains quantized coefficient values in normal array order (not JPEG zigzag order). The block arrays contain only DCT blocks containing real data; any entirely-dummy blocks added to fill out interleaved MCUs at the right or bottom edges of the image are discarded during reading and are not stored in the block arrays. (The size of each block array can be determined from the width_in_blocks and height_in_blocks fields of the component's comp_info entry.) This is also the data format expected by jpeg_write_coefficients().

When you are done using the virtual arrays, call jpeg_finish_decompress() to release the array storage and return the decompression object to an idle state; or just call jpeg_destroy() if you don't need to reuse the object.

If you use a suspending data source, jpeg_read_coefficients() will return NULL if it is forced to suspend; a non-NULL return value indicates successful completion. You need not test for a NULL return value when using a
non-suspending data source.

It is also possible to call jpeg_read_coefficients() to obtain access to the decoder's coefficient arrays during a normal decode cycle in buffered-image mode. This gimmick might be useful for progressively displaying an incoming image and then re-encoding it without loss. To do this, decode in buffered-image mode as discussed previously, then call jpeg_read_coefficients() after the last jpeg_finish_output() call. The arrays will be available for your use until you call jpeg_finish_decompress().

To write the contents of a JPEG file as DCT coefficients, you must provide the DCT coefficients stored in virtual block arrays. You can either pass block arrays read from an input JPEG file by jpeg_read_coefficients(), or allocate virtual arrays from the JPEG compression object and fill them yourself. In either case, jpeg_write_coefficients() is substituted for jpeg_start_compress() and jpeg_write_scanlines(). Thus the sequence is

* Create compression object
* Set all compression parameters as necessary
* Request virtual arrays if needed
* jpeg_write_coefficients()
* jpeg_finish_compress()
* Destroy or re-use compression object

jpeg_write_coefficients() is passed a pointer to an array of virtual block array descriptors; the number of arrays is equal to cinfo.num_components.

The virtual arrays need only have been requested, not realized, before jpeg_write_coefficients() is called. A side-effect of jpeg_write_coefficients() is to realize any virtual arrays that have been requested from the compression object's memory manager. Thus, when obtaining the virtual arrays from the compression object, you should fill the arrays after calling jpeg_write_coefficients(). The data is actually written out when you call jpeg_finish_compress(); jpeg_write_coefficients() only writes the file header.

When writing raw DCT coefficients, it is crucial that the JPEG quantization tables and sampling factors match the way the data was encoded, or the resulting file will be invalid. For transcoding from an existing JPEG file, we recommend using jpeg_copy_critical_parameters(). This routine initializes all the compression parameters to default values (like jpeg_set_defaults()), then copies the critical information from a source decompression object. The decompression object should have just been used to read the entire JPEG input file --- that is, it should be awaiting jpeg_finish_decompress().

jpeg_write_coefficients() marks all tables stored in the compression object as needing to be written to the output file (thus, it acts like jpeg_start_compress(cinfo, TRUE)). This is for safety’s sake, to avoid emitting abbreviated JPEG files by accident. If you really want to emit an
abbreviated JPEG file, call jpeg_suppress_tables(), or set the tables’
individual sent_table flags, between calling jpeg_write_coefficients() and
jpeg_finish_compress().

Progress monitoring
---------------------

Some applications may need to regain control from the JPEG library every so
often. The typical use of this feature is to produce a percent-done bar or
other progress display. (For a simple example, see cjpeg.c or djpeg.c.)
Although you do get control back frequently during the data-transferring pass
(the jpeg_read_scanlines or jpeg_write_scanlines loop), any additional passes
will occur inside jpeg_finish_compress or jpeg_start_decompress; those
routines may take a long time to execute, and you don’t get control back
until they are done.

You can define a progress-monitor routine which will be called periodically
by the library. No guarantees are made about how often this call will occur,
so we don’t recommend you use it for mouse tracking or anything like that.
At present, a call will occur once per MCU row, scanline, or sample row
group, whichever unit is convenient for the current processing mode; so the
wider the image, the longer the time between calls. During the data
transferring pass, only one call occurs per call of jpeg_read_scanlines or
jpeg_write_scanlines, so don’t pass a large number of scanlines at once if
you want fine resolution in the progress count. (If you really need to use
the callback mechanism for time-critical tasks like mouse tracking, you could
insert additional calls inside some of the library’s inner loops.)

To establish a progress-monitor callback, create a struct jpeg_progress_mgr,
fill in its progress_monitor field with a pointer to your callback routine,
and set cinfo->progress to point to the struct. The callback will be called
whenever cinfo->progress is non-NULL. (This pointer is set to NULL by
jpeg_create_compress or jpeg_create_decompress; the library will not change
it thereafter. So if you allocate dynamic storage for the progress struct,
made sure it will live as long as the JPEG object does. Allocating from the
JPEG memory manager with lifetime JPOOL_PERMANENT will work nicely.) You
can use the same callback routine for both compression and decompression.

The jpeg_progress_mgr struct contains four fields which are set by the library:
long pass_counter;/* work units completed in this pass */
long pass_limit;/* total number of work units in this pass */
int completed_passes;/* passes completed so far */
int total_passes;/* total number of passes expected */
During any one pass, pass_counter increases from 0 up to (not including)
pass_limit; the step size is usually but not necessarily 1. The pass_limit
value may change from one pass to another. The expected total number of
passes is in total_passes, and the number of passes already completed is in
completed_passes. Thus the fraction of work completed may be estimated as
completed_passes + (pass_counter/pass_limit)
--------------------------------------------
total_passes
ignoring the fact that the passes may not be equal amounts of work.

When decompressing, pass_limit can even change within a pass, because it
depends on the number of scans in the JPEG file, which isn't always known in
advance. The computed fraction-of-work-done may jump suddenly (if the library
discovers it has overestimated the number of scans) or even decrease (in the
opposite case). It is not wise to put great faith in the work estimate.

When using the decompressor's buffered-image mode, the progress monitor work
estimate is likely to be completely unhelpful, because the library has no way
to know how many output passes will be demanded of it. Currently, the library
sets total_passes based on the assumption that there will be one more output
pass if the input file end hasn't yet been read (jpeg_input_complete() isn't
TRUE), but no more output passes if the file end has been reached when the
output pass is started. This means that total_passes will rise as additional
output passes are requested. If you have a way of determining the input file
size, estimating progress based on the fraction of the file that's been read
will probably be more useful than using the library's value.

Memory management
-------------------

This section covers some key facts about the JPEG library's built-in memory
manager. For more info, please read structure.txt's section about the memory
manager, and consult the source code if necessary.

All memory and temporary file allocation within the library is done via the
memory manager. If necessary, you can replace the "back end" of the memory
manager to control allocation yourself (for example, if you don't want the
library to use malloc() and free() for some reason).

Some data is allocated "permanently" and will not be freed until the JPEG
object is destroyed. Most data is allocated "per image" and is freed by
jpeg_finish_compress, jpeg_finish_decompress, or jpeg_abort. You can call the
memory manager yourself to allocate structures that will automatically be
freed at these times. Typical code for this is

ptr = (*cinfo->mem->alloc_small) ((j_common_ptr) cinfo, JPOOL_IMAGE, size);
Use JPOOL_PERMANENT to get storage that lasts as long as the JPEG object.
Use alloc_large instead of alloc_small for anything bigger than a few Kbytes.
There are also alloc_sarray and alloc_barray routines that automatically
build 2-D sample or block arrays.

The library's minimum space requirements to process an image depend on the
image's width, but not on its height, because the library ordinarily works with "strip" buffers that are as wide as the image but just a few rows high. Some operating modes (e.g., two-pass color quantization) require full-image buffers. Such buffers are treated as "virtual arrays": only the current strip need be in memory, and the rest can be swapped out to a temporary file.

If you use the simplest memory manager back end (jmemnobs.c), then no temporary files are used; virtual arrays are simply malloc'd. Images bigger than memory can be processed only if your system supports virtual memory. The other memory manager back ends support temporary files of various flavors and thus work in machines without virtual memory. They may also be useful on Unix machines if you need to process images that exceed available swap space.

When using temporary files, the library will make the in-memory buffers for its virtual arrays just big enough to stay within a "maximum memory" setting. Your application can set this limit by setting cinfo->mem->max_memory_to_use after creating the JPEG object. (Of course, there is still a minimum size for the buffers, so the max-memory setting is effective only if it is bigger than the minimum space needed.) If you allocate any large structures yourself, you must allocate them before jpeg_start_compress() or jpeg_start_decompress() in order to have them counted against the max memory limit. Also keep in mind that space allocated with alloc_small() is ignored, on the assumption that it's too small to be worth worrying about; so a reasonable safety margin should be left when setting max_memory_to_use.

If you use the jmemname.c or jmemdos.c memory manager back end, it is important to clean up the JPEG object properly to ensure that the temporary files get deleted. (This is especially crucial with jmemdos.c, where the "temporary files" may be extended-memory segments; if they are not freed, DOS will require a reboot to recover the memory.) Thus, with these memory managers, it's a good idea to provide a signal handler that will trap any early exit from your program. The handler should call either jpeg_abort() or jpeg_destroy() for any active JPEG objects. A handler is not needed with jmemnobs.c, and shouldn't be necessary with jmemansi.c or jmemmac.c either, since the C library is supposed to take care of deleting files made with tmpfile().

Memory usage
-------------

Working memory requirements while performing compression or decompression depend on image dimensions, image characteristics (such as colorspace and JPEG process), and operating mode (application-selected options).

As of v6b, the decompressor requires:
1. About 24K in more-or-less-fixed-size data. This varies a bit depending on operating mode and image characteristics (particularly color vs.
grayscale), but it doesn't depend on image dimensions.

2. Strip buffers (of size proportional to the image width) for IDCT and upsampling results. The worst case for commonly used sampling factors is about 34 bytes * width in pixels for a color image. A grayscale image only needs about 8 bytes per pixel column.

3. A full-image DCT coefficient buffer is needed to decode a multi-scan JPEG file (including progressive JPEGs), or whenever you select buffered-image mode. This takes 2 bytes/coefficient. At typical 2x2 sampling, that's 3 bytes per pixel for a color image. Worst case (1x1 sampling) requires 6 bytes/pixel. For grayscale, figure 2 bytes/pixel.

4. To perform 2-pass color quantization, the decompressor also needs a 128K color lookup table and a full-image pixel buffer (3 bytes/pixel). This does not count any memory allocated by the application, such as a buffer to hold the final output image.

The above figures are valid for 8-bit JPEG data precision and a machine with 32-bit ints. For 9-bit to 12-bit JPEG data, double the size of the strip buffers and quantization pixel buffer. The “fixed-size” data will be somewhat smaller with 16-bit ints, larger with 64-bit ints. Also, CMYK or other unusual color spaces will require different amounts of space.

The full-image coefficient and pixel buffers, if needed at all, do not have to be fully RAM resident; you can have the library use temporary files instead when the total memory usage would exceed a limit you set. (But if your OS supports virtual memory, it's probably better to just use jmemnobs and let the OS do the swapping.)

The compressor's memory requirements are similar, except that it has no need for color quantization. Also, it needs a full-image DCT coefficient buffer if Huffman-table optimization is asked for, even if progressive mode is not requested.

If you need more detailed information about memory usage in a particular situation, you can enable the MEM_STATS code in jmemmgr.c.

Library compile-time options
-----------------------------

A number of compile-time options are available by modifying jmorecfg.h.

The IJG code currently supports 8-bit to 12-bit sample data precision by defining BITS_IN_JSAMPLE as 8, 9, 10, 11, or 12.

Note that a value larger than 8 causes JSAMPLE to be larger than a char, so it affects the surrounding application's image data.

The sample applications cjpeg and djpeg can support deeper than 8-bit data only for PPM and GIF file formats; you must disable the other file formats to compile a 9-bit to 12-bit cjpeg or djpeg. (install.txt has more
Run-time selection and conversion of data precision are currently not supported and may be added later.

Exception: The transcoding part (jpegtran) supports all settings in a single instance, since it operates on the level of DCT coefficients and not sample values.

(If you need to include an 8-bit library and a 9-bit to 12-bit library for compression or decompression in a single application, you could probably do it by defining NEED_SHORT_EXTERNAL_NAMES for just one of the copies. You'd have to access the 8-bit and the 9-bit to 12-bit copies from separate application source files. This is untested ... if you try it, we'd like to hear whether it works!)

Note that the standard Huffman tables are only valid for 8-bit data precision. If you selected more than 8-bit data precision, cjpeg uses arithmetic coding by default. The Huffman encoder normally uses entropy optimization to compute usable tables for higher precision. Otherwise, you'll have to supply different default Huffman tables. You may also want to supply your own DCT quantization tables; the existing quality-scaling code has been developed for 8-bit use, and probably doesn't generate especially good tables for 9-bit to 12-bit.

The maximum number of components (color channels) in the image is determined by MAX_COMPONENTS. The JPEG standard allows up to 255 components, but we expect that few applications will need more than four or so.

On machines with unusual data type sizes, you may be able to improve performance or reduce memory space by tweaking the various typedefs in jmorecfg.h. In particular, on some RISC CPUs, access to arrays of "short"s is quite slow; consider trading memory for speed by making JCOEF, INT16, and UINT16 be "int" or "unsigned int". UINT8 is also a candidate to become int.

You probably don't want to make JSAMPLE be int unless you have lots of memory to burn.

You can reduce the size of the library by compiling out various optional functions. To do this, undefine xxx_SUPPORTED symbols as necessary.

You can also save a few K by not having text error messages in the library; the standard error message table occupies about 5Kb. This is particularly reasonable for embedded applications where there's no good way to display a message anyway. To do this, remove the creation of the message table (jpeg_std_message_table[]) from jerror.c, and alter format_message to do something reasonable without it. You could output the numeric value of the message code number, for example. If you do this, you can also save a couple more K by modifying the TRACEMSn() macros in jerror.h to expand to nothing; you don't need trace capability anyway, right? 
Portability considerations

--------------------------

The JPEG library has been written to be extremely portable; the sample applications cjjpeg and djjpeg are slightly less so. This section summarizes the design goals in this area. (If you encounter any bugs that cause the library to be less portable than is claimed here, we'd appreciate hearing about them.)

The code works fine on ANSI C, C++, and pre-ANSI C compilers, using any of the popular system include file setups, and some not-so-popular ones too. See install.txt for configuration procedures.

The code is not dependent on the exact sizes of the C data types. As distributed, we make the assumptions that
char is at least 8 bits wide
short is at least 16 bits wide
int is at least 16 bits wide
long is at least 32 bits wide
(These are the minimum requirements of the ANSI C standard.) Wider types will work fine, although memory may be used inefficiently if char is much larger than 8 bits or short is much bigger than 16 bits. The code should work equally well with 16- or 32-bit ints.

In a system where these assumptions are not met, you may be able to make the code work by modifying the typedefs in jmorecfg.h. However, you will probably have difficulty if int is less than 16 bits wide, since references to plain int abound in the code.

char can be either signed or unsigned, although the code runs faster if an unsigned char type is available. If char is wider than 8 bits, you will need to redefine JOCTET and/or provide custom data source/destination managers so that JOCTET represents exactly 8 bits of data on external storage.

The JPEG library proper does not assume ASCII representation of characters. But some of the image file I/O modules in cjjpeg/djpeg do have ASCII dependencies in file-header manipulation; so does cjjpeg's select_file_type() routine.

The JPEG library does not rely heavily on the C library. In particular, C stdio is used only by the data source/destination modules and the error handler, all of which are application-replaceable. (cjjpeg/djpeg are more heavily dependent on stdio.) malloc and free are called only from the memory manager "back end" module, so you can use a different memory allocator by replacing that one file.

The code generally assumes that C names must be unique in the first 15 characters. However, global function names can be made unique in the
first 6 characters by defining NEED_SHORT_EXTERNAL_NAMES.

More info about porting the code may be gleaned by reading jconfig.txt, jmorecfg.h, and jinclude.h.

Notes for MS-DOS implementors
---------------------------------

The IJG code is designed to work efficiently in 80x86 "small" or "medium" memory models (i.e., data pointers are 16 bits unless explicitly declared "far"; code pointers can be either size). You may be able to use small model to compile cj Peg or dj peg by itself, but you will probably have to use medium model for any larger application. This won't make much difference in performance. You *will* take a noticeable performance hit if you use a large-data memory model (perhaps 10%-25%), and you should avoid "huge" model if at all possible.

The JPEG library typically needs 2Kb-3Kb of stack space. It will also malloc about 20K-30K of near heap space while executing (and lots of far heap, but that doesn't count in this calculation). This figure will vary depending on selected operating mode, and to a lesser extent on image size. There is also about 5Kb-6Kb of constant data which will be allocated in the near data segment (about 4Kb of this is the error message table). Thus you have perhaps 20K available for other modules' static data and near heap space before you need to go to a larger memory model. The C library's static data will account for several K of this, but that still leaves a good deal for your needs. (If you are tight on space, you could reduce the sizes of the I/O buffers allocated by jdatasrc.c and jdatadst.c, say from 4K to 1K. Another possibility is to move the error message table to far memory; this should be doable with only localized hacking on jerror.c.)

About 2K of the near heap space is "permanent" memory that will not be released until you destroy the JPEG object. This is only an issue if you save a JPEG object between compression or decompression operations.

Far data space may also be a tight resource when you are dealing with large images. The most memory-intensive case is decompression with two-pass color quantization, or single-pass quantization to an externally supplied color map. This requires a 128Kb color lookup table plus strip buffers amounting to about 40 bytes per column for typical sampling ratios (eg, about 25600 bytes for a 640-pixel-wide image). You may not be able to process wide images if you have large data structures of your own.

Of course, all of these concerns vanish if you use a 32-bit flat-memory-model compiler, such as DJGPP or Watcom C. We highly recommend flat model if you can use it; the JPEG library is significantly faster in flat model.
/*
 * rdtarga.c
 *
 * Copyright (C) 1991-1996, Thomas G. Lane.
 * This file contains routines to read input images in Targa format.
 * These routines may need modification for non-Unix environments or
 * specialized applications. As they stand, they assume input from
 * an ordinary stdio stream. They further assume that reading begins
 * at the start of the file; start_input may need work if the
 * user interface has already read some data (e.g., to determine that
 * the file is indeed Targa format).
 *
 * Based on code contributed by Lee Daniel Crocker.
 */

/*
 * jcdctmgr.c
 *
 * Copyright (C) 1994-1996, Thomas G. Lane.
 * This file contains the forward-DCT management logic.
 * This code selects a particular DCT implementation to be used,
 * and it performs related housekeeping chores including coefficient
 * quantization.
 */

/*
 * jcapimin.c
 */
* Copyright (C) 1994-1998, Thomas G. Lane.
* Modified 2003-2010 by Guido Vollbeding.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
* 
* This file contains application interface code for the compression half
* of the JPEG library. These are the "minimum" API routines that may be
* needed in either the normal full-compression case or the transcoding-only
* case.
* 
* Most of the routines intended to be called directly by an application
* are in this file or in jcapistd.c. But also see jcpampl.c for
* parameter-setup helper routines, jcomapi.c for routines shared by
* compression and decompression, and jctrans.c for the transcoding case.
* */

Found in path(s):
* /opt/cola/permits/1150898704_1642531261.48/0/jpegsr9e-zip/jpeg-9e/jcapimin.c
No license file was found, but licenses were detected in source scan.

/*
* jquant1.c
*
* Copyright (C) 1991-1996, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
* 
* This file contains 1-pass color quantization (color mapping) routines.
* These routines provide mapping to a fixed color map using equally spaced
* color values. Optional Floyd-Steinberg or ordered dithering is available.
* */

Found in path(s):
* /opt/cola/permits/1150898704_1642531261.48/jjpegsr9e-zip/jpeg-9e/jquant1.c
No license file was found, but licenses were detected in source scan.

/*
* jcmainct.c
*
* Copyright (C) 1994-1996, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
* 
* This file contains the main buffer controller for compression.
* The main buffer lies between the pre-processor and the JPEG
* compressor proper; it holds downsampled data in the JPEG colorspace.

*/

Found in path(s):
* /opt/cola/permits/1150898704_1642531261.48/0/jpegsr9e-zip/jpeg-9e/jcmainct.c

No license file was found, but licenses were detected in source scan.

/*
  * jidctint.c
  *
  * Copyright (C) 1991-1998, Thomas G. Lane.
  * Modification developed 2002-2018 by Guido Vollbeding.
  * This file is part of the Independent JPEG Group's software.
  * For conditions of distribution and use, see the accompanying README file.
  *
  * This file contains a slow-but-accurate integer implementation of the
  * inverse DCT (Discrete Cosine Transform). In the IJG code, this routine
  * must also perform dequantization of the input coefficients.
  *
  * A 2-D IDCT can be done by 1-D IDCT on each column followed by 1-D IDCT
  * on each row (or vice versa, but it's more convenient to emit a row at
  * a time). Direct algorithms are also available, but they are much more
  * complex and seem not to be any faster when reduced to code.
  *
  * This implementation is based on an algorithm described in
  * C. Loeffler, A. Ligtenberg and G. Moschytz, "Practical Fast 1-D DCT
  * Algorithms with 11 Multiplications", Proc. Int'l. Conf. on Acoustics,
  * The primary algorithm described there uses 11 multiplies and 29 adds.
  * We use their alternate method with 12 multiplies and 32 adds.
  * The advantage of this method is that no data path contains more than one
  * multiplication; this allows a very simple and accurate implementation in
  * scaled fixed-point arithmetic, with a minimal number of shifts.
  *
  * We also provide IDCT routines with various output sample block sizes for
  * direct resolution reduction or enlargement and for direct resolving the
  * common 2x1 and 1x2 subsampling cases without additional resampling: NxN
  * (N=1...16), 2NxN, and Nx2N (N=1...8) pixels for one 8x8 input DCT block.
  *
  * For N<8 we simply take the corresponding low-frequency coefficients of
  * the 8x8 input DCT block and apply an NxN point IDCT on the sub-block
  * to yield the downscaled outputs.
  * This can be seen as direct low-pass downsampling from the DCT domain
  * point of view rather than the usual spatial domain point of view,
  * yielding significant computational savings and results at least
  * as good as common bilinear (averaging) spatial downsampling.
  *
  * For N>8 we apply a partial NxN IDCT on the 8 input coefficients as
* lower frequencies and higher frequencies assumed to be zero.
* It turns out that the computational effort is similar to the 8x8 IDCT
* regarding the output size.
* Furthermore, the scaling and descaling is the same for all IDCT sizes.
*
* CAUTION: We rely on the FIX() macro except for the N=1,2,4,8 cases
* since there would be too many additional constants to pre-calculate.
*/

Found in path(s):
* /opt/cola/permits/1150898704_1642531261.48/0/jpegsr9e-zip/jpeg-9e/jidctint.c
No license file was found, but licenses were detected in source scan.

IJG JPEG LIBRARY: SYSTEM ARCHITECTURE

Copyright (C) 1991-2013, Thomas G. Lane, Guido Vollbeding.
This file is part of the Independent JPEG Group's software.
For conditions of distribution and use, see the accompanying README file.

This file provides an overview of the architecture of the IJG JPEG software;
that is, the functions of the various modules in the system and the interfaces
between modules. For more precise details about any data structure or calling
convention, see the include files and comments in the source code.

We assume that the reader is already somewhat familiar with the JPEG standard.
The README file includes references for learning about JPEG. The file
libjpeg.txt describes the library from the viewpoint of an application
programmer using the library; it's best to read that file before this one.
Also, the file coderules.txt describes the coding style conventions we use.

In this document, JPEG-specific terminology follows the JPEG standard:
A "component" means a color channel, e.g., Red or Luminance.
A "sample" is a single component value (i.e., one number in the image data).
A "coefficient" is a frequency coefficient (a DCT transform output number).
A "block" is an array of samples or coefficients.
An "MCU" (minimum coded unit) is an interleaved set of blocks of size
determined by the sampling factors, or a single block in a
noninterleaved scan.
We do not use the terms "pixel" and "sample" interchangeably. When we say
pixel, we mean an element of the full-size image, while a sample is an element
of the downsampled image. Thus the number of samples may vary across
components while the number of pixels does not. (This terminology is not used
rigorously throughout the code, but it is used in places where confusion would
otherwise result.)

*** System features ***
The IJG distribution contains two parts:
* A subroutine library for JPEG compression and decompression.
* cjpeg/djpeg, two sample applications that use the library to transform
  JFIF JPEG files to and from several other image formats.
cjpeg/djpeg are of no great intellectual complexity: they merely add a simple
command-line user interface and I/O routines for several uncompressed image
formats. This document concentrates on the library itself.

We desire the library to be capable of supporting all JPEG baseline, extended
sequential, and progressive DCT processes. The library does not support the
hierarchical or lossless processes defined in the standard.

Within these limits, any set of compression parameters allowed by the JPEG
spec should be readable for decompression. (We can be more restrictive about
what formats we can generate.) Although the system design allows for all
parameter values, some uncommon settings are not yet implemented and may
never be; nonintegral sampling ratios are the prime example. Furthermore,
we treat 8-bit vs. 12-bit data precision as a compile-time switch, not a
run-time option, because most machines can store 8-bit pixels much more
compactly than 12-bit.

By itself, the library handles only interchange JPEG datastreams --- in
particular the widely used JFIF file format. The library can be used by
surrounding code to process interchange or abbreviated JPEG datastreams that
are embedded in more complex file formats. (For example, libtiff uses this
library to implement JPEG compression within the TIFF file format.)

The library includes a substantial amount of code that is not covered by the
JPEG standard but is necessary for typical applications of JPEG. These
functions preprocess the image before JPEG compression or postprocess it after
decompression. They include colorspace conversion, downsampling/upsampling,
and color quantization. This code can be omitted if not needed.

A wide range of quality vs. speed tradeoffs are possible in JPEG processing,
and even more so in decompression postprocessing. The decompression library
provides multiple implementations that cover most of the useful tradeoffs,
ranging from very-high-quality down to fast-preview operation. On the
compression side we have generally not provided low-quality choices, since
compression is normally less time-critical. It should be understood that the
low-quality modes may not meet the JPEG standard's accuracy requirements;
nonetheless, they are useful for viewers.

*** Portability issues ***

Portability is an essential requirement for the library. The key portability
issues that show up at the level of system architecture are:
1. Memory usage. We want the code to be able to run on PC-class machines with limited memory. Images should therefore be processed sequentially (in strips), to avoid holding the whole image in memory at once. Where a full-image buffer is necessary, we should be able to use either virtual memory or temporary files.

2. Near/far pointer distinction. To run efficiently on 80x86 machines, the code should distinguish "small" objects (kept in near data space) from "large" ones (kept in far data space). This is an annoying restriction, but fortunately it does not impact code quality for less brain-damaged machines, and the source code clutter turns out to be minimal with sufficient use of pointer typedefs.

3. Data precision. We assume that "char" is at least 8 bits, "short" and "int" at least 16, "long" at least 32. The code will work fine with larger data sizes, although memory may be used inefficiently in some cases. However, the JPEG compressed datastream must ultimately appear on external storage as a sequence of 8-bit bytes if it is to conform to the standard. This may pose a problem on machines where char is wider than 8 bits. The library represents compressed data as an array of values of typedef JOCTET. If no data type exactly 8 bits wide is available, custom data source and data destination modules must be written to unpack and pack the chosen JOCTET datatype into 8-bit external representation.

*** System overview ***

The compressor and decompressor are each divided into two main sections: the JPEG compressor or decompressor proper, and the preprocessing or postprocessing functions. The interface between these two sections is the image data that the official JPEG spec regards as its input or output: this data is in the colorspace to be used for compression, and it is downsampled to the sampling factors to be used. The preprocessing and postprocessing steps are responsible for converting a normal image representation to or from this form. (Those few applications that want to deal with YCbCr downsampled data can skip the preprocessing or postprocessing step.)

Looking more closely, the compressor library contains the following main elements:

Preprocessing:
* Color space conversion (e.g., RGB to YCbCr).
* Edge expansion and downsampling. Optionally, this step can do simple smoothing --- this is often helpful for low-quality source data.

JPEG proper:
* MCU assembly, DCT, quantization.
* Entropy coding (sequential or progressive, Huffman or arithmetic).
In addition to these modules we need overall control, marker generation, and support code (memory management & error handling). There is also a module responsible for physically writing the output data --- typically this is just an interface to fwrite(), but some applications may need to do something else with the data.

The decompressor library contains the following main elements:

JPEG proper:
* Entropy decoding (sequential or progressive, Huffman or arithmetic).
* Dequantization, inverse DCT, MCU disassembly.

Postprocessing:
* Upsampling. Optionally, this step may be able to do more general rescaling of the image.
* Color space conversion (e.g., YCbCr to RGB). This step may also provide gamma adjustment [ currently it does not ].
* Optional color quantization (e.g., reduction to 256 colors).
* Optional color precision reduction (e.g., 24-bit to 15-bit color). [This feature is not currently implemented.]

We also need overall control, marker parsing, and a data source module. The support code (memory management & error handling) can be shared with the compression half of the library.

There may be several implementations of each of these elements, particularly in the decompressor, where a wide range of speed/quality tradeoffs is very useful. It must be understood that some of the best speedups involve merging adjacent steps in the pipeline. For example, upsampling, color space conversion, and color quantization might all be done at once when using a low-quality ordered-dither technique. The system architecture is designed to allow such merging where appropriate.

Note: it is convenient to regard edge expansion (padding to block boundaries) as a preprocessing/postprocessing function, even though the JPEG spec includes it in compression/decompression. We do this because downsampling/upsampling can be simplified a little if they work on padded data: it's not necessary to have special cases at the right and bottom edges. Therefore the interface buffer is always an integral number of blocks wide and high, and we expect compression preprocessing to pad the source data properly. Padding will occur only to the next block (block_size-sample) boundary. In an interleaved-scan situation, additional dummy blocks may be used to fill out MCUs, but the MCU assembly and disassembly logic will create or discard these blocks internally. (This is advantageous for speed reasons, since we avoid DCTing the dummy blocks. It also permits a small reduction in file size, because the compressor can choose dummy block contents so as to minimize their size in compressed form. Finally, it makes the interface buffer specification
independent of whether the file is actually interleaved or not.)  
Applications that wish to deal directly with the downsampled data must 
provide similar buffering and padding for odd-sized images.


*** Poor man's object-oriented programming ***

It should be clear by now that we have a lot of quasi-independent processing 
steps, many of which have several possible behaviors. To avoid cluttering the 
code with lots of switch statements, we use a simple form of object-style 
programming to separate out the different possibilities.

For example, two different color quantization algorithms could be implemented 
as two separate modules that present the same external interface; at runtime, 
the calling code will access the proper module indirectly through an "object".

We can get the limited features we need while staying within portable C. 
The basic tool is a function pointer. An "object" is just a struct 
containing one or more function pointer fields, each of which corresponds to 
a method name in real object-oriented languages. During initialization we 
fill in the function pointers with references to whichever module we have 
determined we need to use in this run. Then invocation of the module is done 
by indirection through a function pointer; on most machines this is no more 
expensive than a switch statement, which would be the only other way of 
making the required run-time choice. The really significant benefit, of 
course, is keeping the source code clean and well structured.

We can also arrange to have private storage that varies between different 
implementations of the same kind of object. We do this by making all the 
module-specific object structs be separately allocated entities, which will 
be accessed via pointers in the master compression or decompression struct. 
The "public" fields or methods for a given kind of object are specified by 
a commonly known struct. But a module's initialization code can allocate 
a larger struct that contains the common struct as its first member, plus 
additional private fields. With appropriate pointer casting, the module's 
internal functions can access these private fields. (For a simple example, 
see jdatadst.c, which implements the external interface specified by struct 
jpeg_destination_mgr, but adds extra fields.)

(Of course this would all be a lot easier if we were using C++, but we are 
not yet prepared to assume that everyone has a C++ compiler.)

An important benefit of this scheme is that it is easy to provide multiple 
versions of any method, each tuned to a particular case. While a lot of 
precalculation might be done to select an optimal implementation of a method, 
the cost per invocation is constant. For example, the upsampling step might 
have a "generic" method, plus one or more "hardwired" methods for the most 
popular sampling factors; the hardwired methods would be faster because they'd
use straight-line code instead of for-loops. The cost to determine which
method to use is paid only once, at startup, and the selection criteria are
hidden from the callers of the method.

This plan differs a little bit from usual object-oriented structures, in that
only one instance of each object class will exist during execution. The
reason for having the class structure is that on different runs we may create
different instances (choose to execute different modules). You can think of
the term "method" as denoting the common interface presented by a particular
set of interchangeable functions, and "object" as denoting a group of related
methods, or the total shared interface behavior of a group of modules.

*** Overall control structure ***

We previously mentioned the need for overall control logic in the compression
and decompression libraries. In IJG implementations prior to v5, overall
control was mostly provided by "pipeline control" modules, which proved to be
large, unwieldy, and hard to understand. To improve the situation, the
control logic has been subdivided into multiple modules. The control modules
consist of:

1. Master control for module selection and initialization. This has two
   responsibilities:

   1A. Startup initialization at the beginning of image processing.
       The individual processing modules to be used in this run are selected
       and given initialization calls.

   1B. Per-pass control. This determines how many passes will be performed
       and calls each active processing module to configure itself
       appropriately at the beginning of each pass. End-of-pass processing,
       where necessary, is also invoked from the master control module.

       Method selection is partially distributed, in that a particular processing
       module may contain several possible implementations of a particular method,
       which it will select among when given its initialization call. The master
       control code need only be concerned with decisions that affect more than
       one module.

2. Data buffering control. A separate control module exists for each
   inter-processing-step data buffer. This module is responsible for
   invoking the processing steps that write or read that data buffer.

   Each buffer controller sees the world as follows:

   input data => processing step A => buffer => processing step B => output data

       |       |       |
The controller knows the dataflow requirements of steps A and B: how much data they want to accept in one chunk and how much they output in one chunk. Its function is to manage its buffer and call A and B at the proper times.

A data buffer control module may itself be viewed as a processing step by a higher-level control module; thus the control modules form a binary tree with elementary processing steps at the leaves of the tree.

The control modules are objects. A considerable amount of flexibility can be had by replacing implementations of a control module. For example:
* Merging of adjacent steps in the pipeline is done by replacing a control module and its pair of processing-step modules with a single processing-step module. (Hence the possible merges are determined by the tree of control modules.)
* In some processing modes, a given interstep buffer need only be a "strip" buffer large enough to accommodate the desired data chunk sizes. In other modes, a full-image buffer is needed and several passes are required. The control module determines which kind of buffer is used and manipulates virtual array buffers as needed. One or both processing steps may be unaware of the multi-pass behavior.

In theory, we might be able to make all of the data buffer controllers interchangeable and provide just one set of implementations for all. In practice, each one contains considerable special-case processing for its particular job. The buffer controller concept should be regarded as an overall system structuring principle, not as a complete description of the task performed by any one controller.

*** Compression object structure ***

Here is a sketch of the logical structure of the JPEG compression library:

```
|-- Colorspace conversion
  |-- Preprocessing controller -->
     |-- Downsampling

Main controller -->
  |-- Forward DCT, quantize
     |-- Coefficient controller -->
        |-- Entropy encoding
```

This sketch also describes the flow of control (subroutine calls) during typical image data processing. Each of the components shown in the diagram is an "object" which may have several different implementations available. One or more source code files contain the actual implementation(s) of each object.
The objects shown above are:

* Main controller: buffer controller for the subsampled-data buffer, which holds the preprocessed input data. This controller invokes preprocessing to fill the subsampled-data buffer, and JPEG compression to empty it. There is usually no need for a full-image buffer here; a strip buffer is adequate.

* Preprocessing controller: buffer controller for the downsampling input data buffer, which lies between colorspace conversion and downsampling. Note that a unified conversion/downsampling module would probably replace this controller entirely.

* Colorspace conversion: converts application image data into the desired JPEG color space; also changes the data from pixel-interleaved layout to separate component planes. Processes one pixel row at a time.

* Downsampling: performs reduction of chroma components as required. Optionally may perform pixel-level smoothing as well. Processes a "row group" at a time, where a row group is defined as Vmax pixel rows of each component before downsampling, and Vk sample rows afterwards (remember Vk differs across components). Some downsampling or smoothing algorithms may require context rows above and below the current row group; the preprocessing controller is responsible for supplying these rows via proper buffering. The downsampler is responsible for edge expansion at the right edge (i.e., extending each sample row to a multiple of block_size samples); but the preprocessing controller is responsible for vertical edge expansion (i.e., duplicating the bottom sample row as needed to make a multiple of block_size rows).

* Coefficient controller: buffer controller for the DCT-coefficient data. This controller handles MCU assembly, including insertion of dummy DCT blocks when needed at the right or bottom edge. When performing Huffman-code optimization or emitting a multiscan JPEG file, this controller is responsible for buffering the full image. The equivalent of one fully interleaved MCU row of subsampled data is processed per call, even when the JPEG file is noninterleaved.

* Forward DCT and quantization: Perform DCT, quantize, and emit coefficients. Works on one or more DCT blocks at a time. (Note: the coefficients are now emitted in normal array order, which the entropy encoder is expected to convert to zigzag order as necessary. Prior versions of the IJG code did the conversion to zigzag order within the quantization step.)

* Entropy encoding: Perform Huffman or arithmetic entropy coding and emit the coded data to the data destination module. Works on one MCU per call. For progressive JPEG, the same DCT blocks are fed to the entropy coder during each pass, and the coder must emit the appropriate subset of coefficients.
In addition to the above objects, the compression library includes these objects:

* Master control: determines the number of passes required, controls overall and per-pass initialization of the other modules.

* Marker writing: generates JPEG markers (except for RSTn, which is emitted by the entropy encoder when needed).

* Data destination manager: writes the output JPEG datastream to its final destination (e.g., a file). The destination manager supplied with the library knows how to write to a stdio stream or to a memory buffer; for other behaviors, the surrounding application may provide its own destination manager.

* Memory manager: allocates and releases memory, controls virtual arrays (with backing store management, where required).

* Error handler: performs formatting and output of error and trace messages; determines handling of nonfatal errors. The surrounding application may override some or all of this object's methods to change error handling.

* Progress monitor: supports output of "percent-done" progress reports. This object represents an optional callback to the surrounding application: if wanted, it must be supplied by the application.

The error handler, destination manager, and progress monitor objects are defined as separate objects in order to simplify application-specific customization of the JPEG library. A surrounding application may override individual methods or supply its own all-new implementation of one of these objects. The object interfaces for these objects are therefore treated as part of the application interface of the library, whereas the other objects are internal to the library.

The error handler and memory manager are shared by JPEG compression and decompression; the progress monitor, if used, may be shared as well.

*** Decompression object structure ***

Here is a sketch of the logical structure of the JPEG decompression library:

```
    |-- Entropy decoding
    |   |-- Coefficient controller --|
    |       |   |-- Dequantize, Inverse DCT
    Main controller --|
    |       |   |-- Upsampling
```
As before, this diagram also represents typical control flow. The objects shown are:

* Main controller: buffer controller for the subsampled-data buffer, which holds the output of JPEG decompression proper. This controller's primary task is to feed the postprocessing procedure. Some upsampling algorithms may require context rows above and below the current row group; when this is true, the main controller is responsible for managing its buffer so as to make context rows available. In the current design, the main buffer is always a strip buffer; a full-image buffer is never required.

* Coefficient controller: buffer controller for the DCT-coefficient data. This controller handles MCU disassembly, including deletion of any dummy DCT blocks at the right or bottom edge. When reading a multiscan JPEG file, this controller is responsible for buffering the full image. (Buffering DCT coefficients, rather than samples, is necessary to support progressive JPEG.) The equivalent of one fully interleaved MCU row of subsampled data is processed per call, even when the source JPEG file is noninterleaved.

* Entropy decoding: Read coded data from the data source module and perform Huffman or arithmetic entropy decoding. Works on one MCU per call. For progressive JPEG decoding, the coefficient controller supplies the prior coefficients of each MCU (initially all zeroes), which the entropy decoder modifies in each scan.

* Dequantization and inverse DCT: like it says. Note that the coefficients buffered by the coefficient controller have NOT been dequantized; we merge dequantization and inverse DCT into a single step for speed reasons. When scaled-down output is asked for, simplified DCT algorithms may be used that need fewer coefficients and emit fewer samples per DCT block, not the full 8x8. Works on one DCT block at a time.

* Postprocessing controller: buffer controller for the color quantization input buffer, when quantization is in use. (Without quantization, this controller just calls the upsampler.) For two-pass quantization, this controller is responsible for buffering the full-image data.

* Upsampling: restores chroma components to full size. (May support more general output rescaling, too. Note that if undersized DCT outputs have been emitted by the DCT module, this module must adjust so that properly sized outputs are created.) Works on one row group at a time. This module also calls the color conversion module, so its top level is effectively a buffer controller for the upsampling->color conversion buffer. However, in
all but the highest-quality operating modes, upsampling and color conversion are likely to be merged into a single step.

* Colorspace conversion: convert from JPEG color space to output color space, and change data layout from separate component planes to pixel-interleaved. Works on one pixel row at a time.

* Color quantization: reduce the data to colormapped form, using either an externally specified colormap or an internally generated one. This module is not used for full-color output. Works on one pixel row at a time; may require two passes to generate a color map. Note that the output will always be a single component representing colormap indexes. In the current design, the output values are JSAMPLEs, so an 8-bit compilation cannot quantize to more than 256 colors. This is unlikely to be a problem in practice.

* Color reduction: this module handles color precision reduction, e.g., generating 15-bit color (5 bits/primary) from JPEG's 24-bit output. Not quite clear yet how this should be handled... should we merge it with colorspace conversion???

Note that some high-speed operating modes might condense the entire postprocessing sequence to a single module (upsample, color convert, and quantize in one step).

In addition to the above objects, the decompression library includes these objects:

* Master control: determines the number of passes required, controls overall and per-pass initialization of the other modules. This is subdivided into input and output control: jdinput.c controls only input-side processing, while jdmaster.c handles overall initialization and output-side control.

* Marker reading: decodes JPEG markers (except for RSTn).

* Data source manager: supplies the input JPEG datastream. The source manager supplied with the library knows how to read from a stdio stream or from a memory buffer; for other behaviors, the surrounding application may provide its own source manager.

* Memory manager: same as for compression library.

* Error handler: same as for compression library.

* Progress monitor: same as for compression library.

As with compression, the data source manager, error handler, and progress monitor are candidates for replacement by a surrounding application.
*** Decompression input and output separation ***

To support efficient incremental display of progressive JPEG files, the decompressor is divided into two sections that can run independently:

1. Data input includes marker parsing, entropy decoding, and input into the coefficient controller's DCT coefficient buffer. Note that this processing is relatively cheap and fast.

2. Data output reads from the DCT coefficient buffer and performs the IDCT and all postprocessing steps.

For a progressive JPEG file, the data input processing is allowed to get arbitrarily far ahead of the data output processing. (This occurs only if the application calls jpeg_consume_input(); otherwise input and output run in lockstep, since the input section is called only when the output section needs more data.) In this way the application can avoid making extra display passes when data is arriving faster than the display pass can run. Furthermore, it is possible to abort an output pass without losing anything, since the coefficient buffer is read-only as far as the output section is concerned. See libjpeg.txt for more detail.

A full-image coefficient array is only created if the JPEG file has multiple scans (or if the application specifies buffered-image mode anyway). When reading a single-scan file, the coefficient controller normally creates only a one-MCU buffer, so input and output processing must run in lockstep in this case. jpeg_consume_input() is effectively a no-op in this situation.

The main impact of dividing the decompressor in this fashion is that we must be very careful with shared variables in the cinfo data structure. Each variable that can change during the course of decompression must be classified as belonging to data input or data output, and each section must look only at its own variables. For example, the data output section may not depend on any of the variables that describe the current scan in the JPEG file, because these may change as the data input section advances into a new scan.

The progress monitor is (somewhat arbitrarily) defined to treat input of the file as one pass when buffered-image mode is not used, and to ignore data input work completely when buffered-image mode is used. Note that the library has no reliable way to predict the number of passes when dealing with a progressive JPEG file, nor can it predict the number of output passes in buffered-image mode. So the work estimate is inherently bogus anyway.

No comparable division is currently made in the compression library, because there isn't any real need for it.
*** Data formats ***

Arrays of pixel sample values use the following data structure:

```c
typedef something JSAMPLE; // a pixel component value, 0..MAXJSAMPLE
typedef JSAMPLE *JSAMPROW; // ptr to a row of samples
typedef JSAMPROW *JSAMPARRAY; // ptr to a list of rows
typedef JSAMPARRAY *JSAMPIMAGE; // ptr to a list of color-component arrays
```

The basic element type JSAMPLE will typically be one of unsigned char, (signed) char, or short. Short will be used if samples wider than 8 bits are to be supported (this is a compile-time option). Otherwise, unsigned char is used if possible. If the compiler only supports signed chars, then it is necessary to mask off the value when reading. Thus, all reads of JSAMPLE values must be coded as "GETJSAMPLE(value)", where the macro will be defined as "((value) & 0xFF)" on signed-char machines and "((int) (value))" elsewhere.

With these conventions, JSAMPLE values can be assumed to be >= 0. This helps simplify correct rounding during downsampling, etc. The JPEG standard's specification that sample values run from -128..127 is accommodated by subtracting 128 from the sample value in the DCT step. Similarly, during decompression the output of the IDCT step will be immediately shifted back to 0..255. (NB: different values are required when 12-bit samples are in use. The code is written in terms of MAXJSAMPLE and CENTERJSAMPLE, which will be defined as 255 and 128 respectively in an 8-bit implementation, and as 4095 and 2048 in a 12-bit implementation.)

We use a pointer per row, rather than a two-dimensional JSAMPLE array. This choice costs only a small amount of memory and has several benefits:
* Code using the data structure doesn't need to know the allocated width of the rows. This simplifies edge expansion/compression, since we can work in an array that's wider than the logical picture width.
* Indexing doesn't require multiplication; this is a performance win on many machines.
* Arrays with more than 64K total elements can be supported even on machines where malloc() cannot allocate chunks larger than 64K.
* The rows forming a component array may be allocated at different times without extra copying. This trick allows some speedups in smoothing steps that need access to the previous and next rows.

Note that each color component is stored in a separate array; we don't use the traditional layout in which the components of a pixel are stored together. This simplifies coding of modules that work on each component independently, because they don't need to know how many components there are. Furthermore, we can read or write each component to a temporary file independently, which is helpful when dealing with noninterleaved JPEG files.
In general, a specific sample value is accessed by code such as

\texttt{GETJSAMPLE(image[colorcomponent][row][col])}

where \texttt{col} is measured from the image left edge, but \texttt{row} is measured from the first sample row currently in memory. Either of the first two indexings can be precomputed by copying the relevant pointer.

Since most image-processing applications prefer to work on images in which the components of a pixel are stored together, the data passed to or from the surrounding application uses the traditional convention: a single pixel is represented by \texttt{N} consecutive \texttt{JSAMPLE} values, and an image row is an array of \texttt{(\# of color components) \times (image width)} \texttt{JSAMPLE}s. One or more rows of data can be represented by a pointer of type \texttt{JSAMPARRAY} in this scheme. This scheme is converted to component-wise storage inside the JPEG library. (Applications that want to skip JPEG preprocessing or postprocessing will have to contend with component-wise storage.)

Arrays of DCT-coefficient values use the following data structure:

\begin{verbatim}
typedef short JCOEF;  // a 16-bit signed integer
typedef JCOEF JBLOCK[DCTSIZE2];  // an 8x8 block of coefficients
typedef JBLOCK *JBLOCKROW;  // ptr to one horizontal row of 8x8 blocks
typedef JBLOCKROW *JBLOCKARRAY;  // ptr to a list of such rows
typedef JBLOCKARRAY *JBLOCKIMAGE;  // ptr to a list of color component arrays
\end{verbatim}

The underlying type is at least a 16-bit signed integer; while "short" is big enough on all machines of interest, on some machines it is preferable to use "int" for speed reasons, despite the storage cost. Coefficients are grouped into 8x8 blocks (but we always use \#defines \texttt{DCTSIZE} and \texttt{DCTSIZE2} rather than "8" and "64").

The contents of a coefficient block may be in either "natural" or zigzagged order, and may be true values or divided by the quantization coefficients, depending on where the block is in the processing pipeline. In the current library, coefficient blocks are kept in natural order everywhere; the entropy codecs zigzag or dezigzag the data as it is written or read. The blocks contain quantized coefficients everywhere outside the DCT/IDCT subsystems. (This latter decision may need to be revisited to support variable quantization a la JPEG Part 3.)

Notice that the allocation unit is now a row of 8x8 coefficient blocks, corresponding to \texttt{block.size} rows of samples. Otherwise the structure is much the same as for samples, and for the same reasons.

On machines where \texttt{malloc()} can't handle a request bigger than 64Kb, this data structure limits us to rows of less than 512 \texttt{JBLOCK}s, or a picture width of
On 80x86 machines, the bottom-level pointer types (JSAMPROW and JBLOCKROW) must be declared as "far" pointers, but the upper levels can be "near" (implying that the pointer lists are allocated in the DS segment). We use a #define symbol FAR, which expands to the "far" keyword when compiling on 80x86 machines and to nothing elsewhere.

*** Suspendable processing ***

In some applications it is desirable to use the JPEG library as an incremental, memory-to-memory filter. In this situation the data source or destination may be a limited-size buffer, and we can't rely on being able to empty or refill the buffer at arbitrary times. Instead the application would like to have control return from the library at buffer overflow/underrun, and then resume compression or decompression at a later time.

This scenario is supported for simple cases. (For anything more complex, we recommend that the application "bite the bullet" and develop real multitasking capability.) The libjpeg.txt file goes into more detail about the usage and limitations of this capability; here we address the implications for library structure.

The essence of the problem is that the entropy codec (coder or decoder) must be prepared to stop at arbitrary times. In turn, the controllers that call the entropy codec must be able to stop before having produced or consumed all the data that they normally would handle in one call. That part is reasonably straightforward: we make the controller call interfaces include "progress counters" which indicate the number of data chunks successfully processed, and we require callers to test the counter rather than just assume all of the data was processed.

Rather than trying to restart at an arbitrary point, the current Huffman codecs are designed to restart at the beginning of the current MCU after a suspension due to buffer overflow/underrun. At the start of each call, the codec's internal state is loaded from permanent storage (in the JPEG object structures) into local variables. On successful completion of the MCU, the permanent state is updated. (This copying is not very expensive, and may even lead to *improved* performance if the local variables can be registerized.) If a suspension occurs, the codec simply returns without updating the state, thus effectively reverting to the start of the MCU. Note that this implies leaving some data unprocessed in the source/destination buffer (ie, the compressed partial MCU). The data source/destination module interfaces are specified so as to make this possible. This also implies that the data buffer must be large enough to hold a worst-case compressed MCU; a couple thousand bytes should be enough.
In a successive-approximation AC refinement scan, the progressive Huffman decoder has to be able to undo assignments of newly nonzero coefficients if it suspends before the MCU is complete, since decoding requires distinguishing previously-zero and previously-nonzero coefficients. This is a bit tedious but probably won't have much effect on performance. Other variants of Huffman decoding need not worry about this, since they will just store the same values again if forced to repeat the MCU.

This approach would probably not work for an arithmetic codec, since its modifiable state is quite large and couldn't be copied cheaply. Instead it would have to suspend and resume exactly at the point of the buffer end.

The JPEG marker reader is designed to cope with suspension at an arbitrary point. It does so by backing up to the start of the marker parameter segment, so the data buffer must be big enough to hold the largest marker of interest. Again, a couple KB should be adequate. (A special "skip" convention is used to bypass COM and APPn markers, so these can be larger than the buffer size without causing problems; otherwise a 64K buffer would be needed in the worst case.)

The JPEG marker writer currently does *not* cope with suspension. We feel that this is not necessary; it is much easier simply to require the application to ensure there is enough buffer space before starting. (An empty 2K buffer is more than sufficient for the header markers; and ensuring there are a dozen or two bytes available before calling jpeg_finish_compress() will suffice for the trailer.) This would not work for writing multi-scan JPEG files, but we simply do not intend to support that capability with suspension.

*** Memory manager services ***

The JPEG library's memory manager controls allocation and deallocation of memory, and it manages large "virtual" data arrays on machines where the operating system does not provide virtual memory. Note that the same memory manager serves both compression and decompression operations.

In all cases, allocated objects are tied to a particular compression or decompression master record, and they will be released when that master record is destroyed.

The memory manager does not provide explicit deallocation of objects. Instead, objects are created in "pools" of free storage, and a whole pool can be freed at once. This approach helps prevent storage-leak bugs, and it speeds up operations whenever malloc/free are slow (as they often are). The pools can be regarded as lifetime identifiers for objects. Two pools/lifetimes are defined:
* JPOOL_PERMANENT lasts until master record is destroyed
* JPOOL_IMAGE lasts until done with image (JPEG datastream)

Permanent lifetime is used for parameters and tables that should be carried across from one datastream to another; this includes all application-visible parameters. Image lifetime is used for everything else. (A third lifetime, JPOOL_PASS = one processing pass, was originally planned. However it was dropped as not being worthwhile. The actual usage patterns are such that the peak memory usage would be about the same anyway; and having per-pass storage substantially complicates the virtual memory allocation rules --- see below.)

The memory manager deals with three kinds of object:
1. "Small" objects. Typically these require no more than 10K-20K total.
2. "Large" objects. These may require tens to hundreds of K depending on image size. Semantically they behave the same as small objects, but we distinguish them for two reasons:
   * On MS-DOS machines, large objects are referenced by FAR pointers, small objects by NEAR pointers.
   * Pool allocation heuristics may differ for large and small objects.

   Note that individual "large" objects cannot exceed the size allowed by type size_t, which may be 64K or less on some machines.
3. "Virtual" objects. These are large 2-D arrays of JSAMPLEs or JBLOCKs (typically large enough for the entire image being processed). The memory manager provides stripwise access to these arrays. On machines without virtual memory, the rest of the array may be swapped out to a temporary file.

(Note: JSAMPARRAY and JBLOCKARRAY data structures are a combination of large objects for the data proper and small objects for the row pointers. For convenience and speed, the memory manager provides single routines to create these structures. Similarly, virtual arrays include a small control block and a JSAMPARRAY or JBLOCKARRAY working buffer, all created with one call.)

In the present implementation, virtual arrays are only permitted to have image lifespan. (Permanent lifespan would not be reasonable, and pass lifespan is not very useful since a virtual array's raison d'être is to store data for multiple passes through the image.) We also expect that only "small" objects will be given permanent lifespan, though this restriction is not required by the memory manager.

In a non-virtual-memory machine, some performance benefit can be gained by making the in-memory buffers for virtual arrays be as large as possible. (For small images, the buffers might fit entirely in memory, so blind swapping would be very wasteful.) The memory manager will adjust the height of the buffers to fit within a prespecified maximum memory usage. In order to do this in a reasonably optimal fashion, the manager needs to allocate all of the virtual arrays at once. Therefore, there isn't a one-step allocation routine for virtual arrays; instead, there is a "request" routine that simply allocates the control block, and a "realize" routine (called just once) that
determines space allocation and creates all of the actual buffers. The realize routine must allow for space occupied by non-virtual large objects. (We don't bother to factor in the space needed for small objects, on the grounds that it isn't worth the trouble.)

To support all this, we establish the following protocol for doing business with the memory manager:

1. Modules must request virtual arrays (which may have only image lifespan) during the initial setup phase, i.e., in their jinit_xxx routines.
2. All "large" objects (including JSAMPARRAYs and JBLOCKARRAYs) must also be allocated during initial setup.
3. realize_virt_arrays will be called at the completion of initial setup.

The above conventions ensure that sufficient information is available for it to choose a good size for virtual array buffers. Small objects of any lifespan may be allocated at any time. We expect that the total space used for small objects will be small enough to be negligible in the realize_virt_arrays computation.

In a virtual-memory machine, we simply pretend that the available space is infinite, thus causing realize_virt_arrays to decide that it can allocate all the virtual arrays as full-size in-memory buffers. The overhead of the virtual-array access protocol is very small when no swapping occurs.

A virtual array can be specified to be "pre-zeroed"; when this flag is set, never-yet-written sections of the array are set to zero before being made available to the caller. If this flag is not set, never-written sections of the array contain garbage. (This feature exists primarily because the equivalent logic would otherwise be needed in jdcoefct.c for progressive JPEG mode; we may as well make it available for possible other uses.)

The first write pass on a virtual array is required to occur in top-to-bottom order; read passes, as well as any write passes after the first one, may access the array in any order. This restriction exists partly to simplify the virtual array control logic, and partly because some file systems may not support seeking beyond the current end-of-file in a temporary file. The main implication of this restriction is that rearrangement of rows (such as converting top-to-bottom data order to bottom-to-top) must be handled while reading data out of the virtual array, not while putting it in.

*** Memory manager internal structure ***

To isolate system dependencies as much as possible, we have broken the memory manager into two parts. There is a reasonably system-independent "front end" (jmemmgr.c) and a "back end" that contains only the code likely to change across systems. All of the memory management methods outlined above are implemented by the front end. The back end provides the following routines for use by the front end (none of these routines
are known to the rest of the JPEG code):

jpeg_mem_init, jpeg_mem_term(system-dependent initialization/shutdown)

jpeg_get_small, jpeg_free_small(interface to malloc and free library routines
(or their equivalents)

jpeg_get_large, jpeg_free_large(interface to FAR malloc/free in MSDOS machines;
else usually the same as
jpeg_get_small/jpeg_free_small

jpeg_mem_available(estimate available memory

jpeg_open_backing_store(create a backing-store object

read_backing_store, manipulate a backing-store object
write_backing_store,
close_backing_store

On some systems there will be more than one type of backing-store object
(specifically, in MS-DOS a backing store file might be an area of extended
memory as well as a disk file). jpeg_open_backing_store is responsible for
choosing how to implement a given object. The read/write/close routines
are method pointers in the structure that describes a given object; this
lets them be different for different object types.

It may be necessary to ensure that backing store objects are explicitly
released upon abnormal program termination. For example, MS-DOS won't free
extended memory by itself. To support this, we will expect the main program
or surrounding application to arrange to call self_destruct (typically via
jpeg_destroy) upon abnormal termination. This may require a SIGINT signal
handler or equivalent. We don't want to have the back end module install its
own signal handler, because that would pre-empt the surrounding application's
ability to control signal handling.

The IJG distribution includes several memory manager back end implementations.
Usually the same back end should be suitable for all applications on a given
system, but it is possible for an application to supply its own back end at
need.

*** Implications of DNL marker ***

Some JPEG files may use a DNL marker to postpone definition of the image
height (this would be useful for a fax-like scanner's output, for instance).
In these files the SOF marker claims the image height is 0, and you only
find out the true image height at the end of the first scan.
We could read these files as follows:
1. Upon seeing zero image height, replace it by 65535 (the maximum allowed).
2. When the DNL is found, update the image height in the global image descriptor.
This implies that control modules must avoid making copies of the image height, and must re-test for termination after each MCU row. This would be easy enough to do.

In cases where image-size data structures are allocated, this approach will result in very inefficient use of virtual memory or much-larger-than-necessary temporary files. This seems acceptable for something that probably won't be a mainstream usage. People might have to forgo use of memory-hogging options (such as two-pass color quantization or noninterleaved JPEG files) if they want efficient conversion of such files. (One could improve efficiency by demanding a user-supplied upper bound for the height, less than 65536; in most cases it could be much less.)

The standard also permits the SOF marker to overestimate the image height, with a DNL to give the true, smaller height at the end of the first scan. This would solve the space problems if the overestimate wasn't too great. However, it implies that you don't even know whether DNL will be used.

This leads to a couple of very serious objections:
1. Testing for a DNL marker must occur in the inner loop of the decompressor's Huffman decoder; this implies a speed penalty whether the feature is used or not.
2. There is no way to hide the last-minute change in image height from an application using the decoder. Thus *every* application using the IJG library would suffer a complexity penalty whether it cared about DNL or not.
We currently do not support DNL because of these problems.

A different approach is to insist that DNL-using files be preprocessed by a separate program that reads ahead to the DNL, then goes back and fixes the SOF marker. This is a much simpler solution and is probably far more efficient. Even if one wants piped input, buffering the first scan of the JPEG file needs a lot smaller temp file than is implied by the maximum-height method. For this approach we'd simply treat DNL as a no-op in the decompressor (at most, check that it matches the SOF image height).

We will not worry about making the compressor capable of outputting DNL. Something similar to the first scheme above could be applied if anyone ever wants to make that work.

Found in path(s):
* /opt/cola/permits/1150898704_1642531261.48/0/jpegsr9e-zip/jpeg-9e/structure.txt
No license file was found, but licenses were detected in source scan.
/*
 * ckconfig.c
 *
 * Copyright (C) 1991-1994, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 */

Found in path(s):
* /opt/cola/permits/1150898704_1642531261.48/0/jpegsr9e-zip/jpeg-9e/ckconfig.c
No license file was found, but licenses were detected in source scan.

/*
 * rdjpgcom.c
 *
 * Copyright (C) 1994-1997, Thomas G. Lane.
 * Modified 2009 by Bill Allombert, Guido Vollbeding.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains a very simple stand-alone application that displays
 * the text in COM (comment) markers in a JFIF file.
 * This may be useful as an example of the minimum logic needed to parse
 * JPEG markers.
 */

Found in path(s):
* /opt/cola/permits/1150898704_1642531261.48/0/jpegsr9e-zip/jpeg-9e/rdjpgcom.c
No license file was found, but licenses were detected in source scan.

/*
 * alternate cjpeg.c
 *
 * Copyright (C) 1991-1998, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains an alternate user interface for the JPEG compressor.
 * One or more input files are named on the command line, and output file
 * names are created by substituting ”.jpg” for the input file's extension.
 */

Found in path(s):
* /opt/cola/permits/1150898704_1642531261.48/0/jpegsr9e-zip/jpeg-9e/cjpegalt.c
No license file was found, but licenses were detected in source scan.
* jdmaster.c
* Copyright (C) 1991-1997, Thomas G. Lane.
* Modified 2002-2020 by Guido Vollbeding.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
* This file contains master control logic for the JPEG decompressor.
* These routines are concerned with selecting the modules to be executed
* and with determining the number of passes and the work to be done in each
* pass.
*/

Found in path(s):
* /opt/cola/permits/1150898704_1642531261.48/0/jpegsr9e-zip/jpeg-9e/jdmaster.c
No license file was found, but licenses were detected in source scan.

/*
* djpeg.c
* Copyright (C) 1991-1997, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
* This file contains a command-line user interface for the JPEG decompressor.
* It should work on any system with Unix- or MS-DOS-style command lines.
* Two different command line styles are permitted, depending on the
* compile-time switch TWO_FILE_COMMANDLINE:
djpeg [options] inputfile outputfile
djpeg [options] [inputfile]
* In the second style, output is always to standard output, which you'd
* normally redirect to a file or pipe to some other program. Input is
* either from a named file or from standard input (typically redirected).
* The second style is convenient on Unix but is unhelpful on systems that
* don't support pipes. Also, you MUST use the first style if your system
* doesn't do binary I/O to stdin/stdout.
* To simplify script writing, the "-outfile" switch is provided. The syntax
* djpeg [options] -outfile outputfile inputfile
* works regardless of which command line style is used.
*/

Found in path(s):
* /opt/cola/permits/1150898704_1642531261.48/0/jpegsr9e-zip/jpeg-9e/djpeg.c
No license file was found, but licenses were detected in source scan.
* rdgif.c
* 
* Copyright (C) 1991-1996, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
* 
* This file contains routines to read input images in GIF format.
* 
* These routines may need modification for non-Unix environments or
* specialized applications. As they stand, they assume input from
* an ordinary stdio stream. They further assume that reading begins
* at the start of the file; start_input may need work if the
* user interface has already read some data (e.g., to determine that
* the file is indeed GIF format).
* /
*/
/*
* This code is loosely based on giftoppm from the PBMPLUS distribution
* of Feb. 1991. That file contains the following copyright notice:
* +-------------------------------------------------------------------+
* | Copyright 1990, David Koblas.                                      |
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* | copies and that both that copyright notice and this permission    |
* | notice appear in supporting documentation. This software is       |
* | provided "as is" without express or implied warranty.             |
* +-------------------------------------------------------------------+
*/

Found in path(s):
* /opt/cola/permits/1150898704_1642531261.48/0/jpegsr9e-zip/jpeg-9e/rdgif.c
No license file was found, but licenses were detected in source scan.

/*
* jmemsys.h
*
* Copyright (C) 1992-1997, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
* 
* This include file defines the interface between the system-independent
* and system-dependent portions of the JPEG memory manager. No other
* modules need include it. (The system-independent portion is jmemmgr.c;
* there are several different versions of the system-dependent portion.)
* 
* This file works as-is for the system-dependent memory managers supplied
* in the IJG distribution. You may need to modify it if you write a
* custom memory manager. If system-dependent changes are needed in this file, the best method is to #ifdef them based on a configuration symbol supplied in jconfig.h, as we have done with USE_MSDOS_MEMMGR and USE_MAC_MEMMGR.
*/

Found in path(s):
* /opt/cola/permits/1150898704_1642531261.48/0/jpegsr9e-zip/jpeg-9e/jmemsys.h
No license file was found, but licenses were detected in source scan.

/*
 * jidctflt.c
 *
 * Copyright (C) 1994-1998, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains a floating-point implementation of the inverse DCT (Discrete Cosine Transform). In the IJG code, this routine must also perform dequantization of the input coefficients.
 *
 * This implementation should be more accurate than either of the integer IDCT implementations. However, it may not give the same results on all machines because of differences in roundoff behavior. Speed will depend on the hardware's floating point capacity.
 *
 * A 2-D IDCT can be done by 1-D IDCT on each column followed by 1-D IDCT on each row (or vice versa, but it's more convenient to emit a row at a time). Direct algorithms are also available, but they are much more complex and seem not to be any faster when reduced to code.
 *
 * This implementation is based on Arai, Agui, and Nakajima's algorithm for scaled DCT. Their original paper (Trans. IEICE E-71(11):1095) is in Japanese, but the algorithm is described in the Pennebaker & Mitchell JPEG textbook (see REFERENCES section in file README). The following code is based directly on figure 4-8 in P&M.
 *
 * While an 8-point DCT cannot be done in less than 11 multiplies, it is possible to arrange the computation so that many of the multiplies are simple scalings of the final outputs. These multiplies can then be folded into the multiplications or divisions by the JPEG quantization table entries. The AA&N method leaves only 5 multiplies and 29 adds to be done in the DCT itself.
 *
 * The primary disadvantage of this method is that with a fixed-point implementation, accuracy is lost due to imprecise representation of the scaled quantization values. However, that problem does not arise if we use floating point arithmetic.
 */
Found in path(s):
* /opt/cola/permits/1150898704_1642531261.48/0/jpegsr9e-zip/jpeg-9e/jidctflt.c
No license file was found, but licenses were detected in source scan.

/
* wrrle.c
 *
* Copyright (C) 1991-1996, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
 *
* This file contains routines to write output images in RLE format.
* The Utah Raster Toolkit library is required (version 3.1 or later).
 *
* These routines may need modification for non-Unix environments or
* specialized applications. As they stand, they assume output to
* an ordinary stdout stream.
 *
* Based on code contributed by Mike Lijewski,
* with updates from Robert Hutchinson.
 */

Found in path(s):
* /opt/cola/permits/1150898704_1642531261.48/0/jpegsr9e-zip/jpeg-9e/wrrle.c
No license file was found, but licenses were detected in source scan.

/
* jdmerge.c
 *
* Copyright (C) 1994-1996, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
 *
* This file contains code for merged upsampling/color conversion.
 *
* This file combines functions from jdsample.c and jdcolor.c;
* read those files first to understand what's going on.
 *
* When the chroma components are to be upsampled by simple replication
* (ie, box filtering), we can save some work in color conversion by
* calculating all the output pixels corresponding to a pair of chroma
* samples at one time. In the conversion equations
* R = Y + K1 * Cr
* G = Y + K2 * Cb + K3 * Cr
* B = Y + K4 * Cb
* only the Y term varies among the group of pixels corresponding to a pair
  * of chroma samples, so the rest of the terms can be calculated just once.
  * At typical sampling ratios, this eliminates half or three-quarters of the
  * multiplications needed for color conversion.

* This file currently provides implementations for the following cases:
  * YCC => RGB color conversion only (YCbCr or BG_YCC).
  * Sampling ratios of 2h1v or 2h2v.
  * No scaling needed at upsample time.
  * Corner-aligned (non-CCIR601) sampling alignment.
  * Other special cases could be added, but in most applications these are
  * the only common cases. (For uncommon cases we fall back on the more
  * general code in jdsample.c and jdcolor.c.)

*/

Found in path(s):
* /opt/cola/permits/1150898704_1642531261.48/0/jpegsr9e-zip/jpeg-9e/jdmerge.c

No license file was found, but licenses were detected in source scan.

/*
  * jmemmgr.c
  *
  * Copyright (C) 1991-1997, Thomas G. Lane.
  * This file is part of the Independent JPEG Group's software.
  * For conditions of distribution and use, see the accompanying README file.
  *
  * This file contains the JPEG system-independent memory management
  * routines. This code is usable across a wide variety of machines; most
  * of the system dependencies have been isolated in a separate file.
  * The major functions provided here are:
  *  * pool-based allocation and freeing of memory;
  *  * policy decisions about how to divide available memory among the
  *    virtual arrays;
  *  * control logic for swapping virtual arrays between main memory and
  *    backing storage.
  * The separate system-dependent file provides the actual backing-storage
  * access code, and it contains the policy decision about how much total
  * main memory to use.
  * This file is system-dependent in the sense that some of its functions
  * are unnecessary in some systems. For example, if there is enough virtual
  * memory so that backing storage will never be used, much of the virtual
  * array control logic could be removed. (Of course, if you have that much
  * memory then you shouldn't care about a little bit of unused code...)
  */

Found in path(s):
* /opt/cola/permits/1150898704_1642531261.48/0/jpegsr9e-zip/jpeg-9e/jmemmgr.c
No license file was found, but licenses were detected in source scan.

/*
 * jcmarker.c
 *
 * Copyright (C) 1991-1998, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains routines to write JPEG datastream markers.
 */

Found in path(s):
* /opt/cola/permits/1150898704_1642531261.48/0/jpegsr9e-zip/jpeg-9e/jcmarker.c
No license file was found, but licenses were detected in source scan.

/*
 * jdhuff.c
 *
 * Copyright (C) 1991-1997, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains Huffman entropy decoding routines.
 * Both sequential and progressive modes are supported in this single module.
 *
 * Much of the complexity here has to do with supporting input suspension.
 * If the data source module demands suspension, we want to be able to back
 * up to the start of the current MCU. To do this, we copy state variables
 * into local working storage, and update them back to the permanent
 * storage only upon successful completion of an MCU.
 */

Found in path(s):
* /opt/cola/permits/1150898704_1642531261.48/0/jpegsr9e-zip/jpeg-9e/jdhist.c
No license file was found, but licenses were detected in source scan.

/*
 * jdpostct.c
 *
 * Copyright (C) 1994-1996, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains the decompression postprocessing controller.
 * This controller manages the upsampling, color conversion, and color
quantization/reduction steps; specifically, it controls the buffering
between upsample/color conversion and color quantization/reduction.

If no color quantization/reduction is required, then this module has no
work to do, and it just hands off to the upsample/color conversion code.
An integrated upsample/convert/quantize process would replace this module
entirely.

Found in path(s):
* /opt/cola/permits/1150898704_1642531261.48/0/jpegsr9e-zip/jpeg-9e/jdpostct.c
No license file was found, but licenses were detected in source scan.

/*
 * jpegtran.c
 *
 * Copyright (C) 1995-2019, Thomas G. Lane, Guido Vollbeding.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains a command-line user interface for JPEG transcoding.
 * It is very similar to cjpeg.c, and partly to djpeg.c, but provides
 * lossless transcoding between different JPEG file formats. It also
 * provides some lossless and sort-of-lossless transformations of JPEG data.
 */

Found in path(s):
* /opt/cola/permits/1150898704_1642531261.48/0/jpegsr9e-zip/jpeg-9e/jpegtran.c
No license file was found, but licenses were detected in source scan.

/*
 * jcsample.c
 *
 * Copyright (C) 1991-1996, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains downsampling routines.
 *
 * Downsampling input data is counted in "row groups". A row group
 * is defined to be max_v_samp_factor pixel rows of each component,
 * from which the downsampler produces v_samp_factor sample rows.
 * A single row group is processed in each call to the downsampler module.
 *
 * The downsampler is responsible for edge-expansion of its output data
 * to fill an integral number of DCT blocks horizontally. The source buffer
 * may be modified if it is helpful for this purpose (the source buffer is
* allocated wide enough to correspond to the desired output width.
* The caller (the prep controller) is responsible for vertical padding.
*
* The downsampler may request "context rows" by setting need_context_rows
* during startup. In this case, the input arrays will contain at least
* one row group's worth of pixels above and below the passed-in data;
* the caller will create dummy rows at image top and bottom by replicating
* the first or last real pixel row.
*
* An excellent reference for image resampling is
*
* The downsampling algorithm used here is a simple average of the source
* pixels covered by the output pixel. The hi-falutin sampling literature
* refers to this as a "box filter". In general the characteristics of a box
* filter are not very good, but for the specific cases we normally use (1:1
* and 2:1 ratios) the box is equivalent to a 'triangle filter' which is not
* nearly so bad. If you intend to use other sampling ratios, you'd be well
* advised to improve this code.
*
* A simple input-smoothing capability is provided. This is mainly intended
* for cleaning up color-dithered GIF input files (if you find it inadequate,
* we suggest using an external filtering program such as pnmconvol). When
* enabled, each input pixel P is replaced by a weighted sum of itself and its
* eight neighbors. P's weight is 1-8*SF and each neighbor's weight is SF,
* where SF = (smoothing_factor / 1024).
* Currently, smoothing is only supported for 2h2v sampling factors.
*/

Found in path(s):
* /opt/cola/permits/1150898704_1642531261.48/0/jpegsr9e-zip/jpeg-9e/jcsample.c
No license file was found, but licenses were detected in source scan.

/*
* jchuff.c
*
* Copyright (C) 1991-1997, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains Huffman entropy encoding routines.
* Both sequential and progressive modes are supported in this single module.
*
* Much of the complexity here has to do with supporting output suspension.
* If the data destination module demands suspension, we want to be able to
* back up to the start of the current MCU. To do this, we copy state
* variables into local working storage, and update them back to the
* permanent JPEG objects only upon successful completion of an MCU.
*
* We do not support output suspension for the progressive JPEG mode, since
* the library currently does not allow multiple-scan files to be written
* with output suspension.
*/

Found in path(s):
* /opt/cola/permits/1150898704_1642531261.48/0/jpegsr9e-zip/jpeg-9e/jchuff.c

No license file was found, but licenses were detected in source scan.

/ *
* jccolor.c
*
* Copyright (C) 1991-1996, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
* 
* This file contains input colorspace conversion routines.
*/

Found in path(s):
* /opt/cola/permits/1150898704_1642531261.48/0/jpegsr9e-zip/jpeg-9e/jccolor.c

No license file was found, but licenses were detected in source scan.

/ *
* rdswitch.c
*
* Copyright (C) 1991-1996, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
* 
* This file contains routines to process some of cjpeg's more complicated
* command-line switches. Switches processed here are:
* -qtables file Read quantization tables from text file
* -scans file Read scan script from text file
* -quality N,[N,...] Set quality ratings
* -qslots N,[N,...] Set component quantization table selectors
* -sample HxV,[HxV,...] Set component sampling factors
*/

Found in path(s):
* /opt/cola/permits/1150898704_1642531261.48/0/jpegsr9e-zip/jpeg-9e/rdswitch.c

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/*
 * rdbmp.c
 *
 * Copyright (C) 1994-1996, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 * This file contains routines to read input images in Microsoft "BMP"
 * format (MS Windows 3.x, OS/2 1.x, and OS/2 2.x flavors).
 * Currently, only 8-, 24-, and 32-bit images are supported, not 1-bit or
 * 4-bit (feeding such low-depth images into JPEG would be silly anyway).
 * Also, we don't support RLE-compressed files.
 *
 * These routines may need modification for non-Unix environments or
 * specialized applications. As they stand, they assume input from
 * an ordinary st dio stream. They further assume that reading begins
 * at the start of the file; start_input may need work if the
 * user interface has already read some data (e.g., to determine that
 * the file is indeed BMP format).
 *
 * This code contributed by James Arthur Boucher.
 */

Found in path(s):
/ /opt/cola/permissions/1150898704_16442531261.48/jpegsr9e-zip/jpeg-9e/rdbmp.c
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/*
 * jmemname.c
 *
 * Copyright (C) 1992-1997, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file provides a generic implementation of the system-dependent
 * portion of the JPEG memory manager. This implementation assumes that
 * you must explicitly construct a name for each temp file.
 * Also, the problem of determining the amount of memory available
 * is shoved onto the user.
 */

Found in path(s):
/ /opt/cola/permissions/1150898704_1642531261.48/jpegsr9e-zip/jpeg-9e/jmemname.c
No license file was found, but licenses were detected in source scan.

/*
 * jerror.c
 */
* Copyright (C) 1991-1998, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
* 
* This file contains simple error-reporting and trace-message routines.
* These are suitable for Unix-like systems and others where writing to
* stderr is the right thing to do. Many applications will want to replace
* some or all of these routines.
* 
* If you define USE_WINDOWS_MESSAGEBOX in jconfig.h or in the makefile,
* you get a Windows-specific hack to display error messages in a dialog box.
* It ain't much, but it beats dropping error messages into the bit bucket,
* which is what happens to output to stderr under most Windows C compilers.
* 
* These routines are used by both the compression and decompression code.
*/

Found in path(s):
* /opt/cola/permits/1150898704_1642531261.48/0/jpegsr9e-zip/jpeg-9e/jerror.c

1.51 libunistring 0.9.6+really0.9.3-0.1
1.51.1 Available under license :

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Defining a subclass of a class defined by the Library is deemed a mode
of using an interface provided by the Library.

A "Combined Work" is a work produced by combining or linking an
Application with the Library. The particular version of the Library
with which the Combined Work was made is also called the "Linked
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The "Minimal Corresponding Source" for a Combined Work means the
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based on the Application, and not on the Linked Version.

The "Corresponding Application Code" for a Combined Work means the
object code and/or source code for the Application, including any data
and utility programs needed for reproducing the Combined Work from the
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layouts and accessors, or small macros, inline functions and templates
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HISTORY -

Early versions of this collector were developed as a part of research projects supported in part by the National Science Foundation and the Defense Advance Research Projects Agency.

The garbage collector originated as part of the run-time system for the Russell programming language implementation. The first version of the garbage collector was written primarily by Al Demers. It was then refined and mostly rewritten, primarily by Hans-J. Boehm, at Cornell U., the University of Washington, Rice University (where it was first used for C and assembly code), Xerox PARC, SGI, and HP Labs. However, significant contributions have also been made by many others.

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More recent contributors are mentioned in the modification history in README.changes. My apologies for any omissions.

The SPARC specific code was originally contributed by Mark Weiser. The Encore Multimax modifications were supplied by Kevin Kenny (kenny@m.cs.uiuc.edu). The adaptation to the IBM PC/RT is largely due to Vernon Lee, on machines made available to Rice by IBM. Much of the HP specific code and a number of good suggestions for improving the generic code are due to Walter Underwood. Robert Brazile (brazile@diamond.bbn.com) originally supplied the ULTRIX code. Al Dosser (dosser@src.dec.com) and Regis Cridlig (Regis.Cridlig@cl.cam.ac.uk) subsequently provided updates and information on variation between ULTRIX systems. Parag Patel (parag@netcom.com) supplied the A/UX code. Jesper Peterson (jep@mtiame.mtia.oz.au), Michel Schinz, and Martin Tauchmann (martintauchmann@bigfoot.com) supplied the Amiga port. Thomas Funke (thf@zelator.in-berlin.de(?)) and Brian D. Carlstrom (bdc@clark.lcs.mit.edu) supplied the NeXT ports. Douglas Steel (doug@wg.icl.co.uk) provided ICL DRS6000 code. Bill Janssen (janssen@parc.xerox.com) supplied the SunOS dynamic loader specific code. Manuel Serrano (serrano@cornas.inria.fr) supplied linux and Sony News specific code. Al Dosser provided Alpha/OSF/1 code. He and Dave Detlefs (detlefs@src.dec.com) also provided several generic bug fixes. Alistair G. Crooks (agc@uts.amdahl.com) supplied the NetBSD and 386BSD ports. Jeffrey Hsu (hsu@soda.berkeley.edu) provided the FreeBSD port. Brent Benson (brent@jade.ssd.csd.harris.com) ported the collector to a Motorola 88K processor running CX/UX (Harris NightHawk). Ari Huttunen (Ari.Huttunen@hut.fi) generalized the OS/2 port to
nonIBM development environments (a nontrivial task).
Patrick Beard (beard@cs.ucdavis.edu) provided the initial MacOS port.
David Chase, then at Olivetti Research, suggested several improvements.
Scott Schwartz (schwartz@groucho.cse.psu.edu) supplied some of the
code to save and print call stacks for leak detection on a SPARC.
Jesse Hull and John Ellis supplied the C++ interface code.
Zhong Shao performed much of the experimentation that led to the
current typed allocation facility. (His dynamic type inference code hasn't
made it into the released version of the collector, yet.)

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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

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If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it
contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

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If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

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a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application
to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

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Appendix: How to Apply These Terms to Your New Programs

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We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

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In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

Although the Lesser General Public License is Less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

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compilation
and installation of the library.

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In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see https://www.cnri.reston.va.us/) in Reston, Virginia where he released several versions of the software.
In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope Corporation; see http://www.zope.com/). In 2001, the Python Software Foundation (PSF, see https://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of the PSF.

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Mersenne Twister
--------------

The :mod:`random` module includes code based on a download from
http://www.math.sci.hiroshima-u.ac.jp/~m-mat/MT/MT2002/emt19937ar.html. The following are
the verbatim comments from the original code::

    A C-program for MT19937, with initialization improved 2002/1/26.
    Coded by Takuji Nishimura and Makoto Matsumoto.

    Before using, initialize the state by using init_genrand(seed)
    or init_by_array(init_key, key_length).

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The \module{socket} module uses the functions, \function{getaddrinfo}, and \function{getnameinfo}, which are coded in separate source files from the WIDE Project, \url{http://www.wide.ad.jp/}.

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UUencode and UUdecode functions

-----------------------------

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Modified by Jack Jansen, CWI, July 1995:
- Use binascii module to do the actual line-by-line conversion
  between ascii and binary. This results in a 1000-fold speedup. The C
  version is still 5 times faster, though.
- Arguments more compliant with Python standard

XML Remote Procedure Calls
--------------------------

The :mod:`xmlrpc.client` module contains the following notice::

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test_epoll
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Select kqueue
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--------

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Original location:
    https://github.com/majek/csiphash/

Solution inspired by code from:
    Samuel Neves (supercop/crypto_auth/siphash24/little)
    djb (supercop/crypto_auth/siphash24/little2)
    Jean-Philippe Aumasson (https://131002.net/siphash/siphash24.c)

strtod and dtoa
-------------

The file :file:`Python/dtoa.c`, which supplies C functions dtoa and strtod for conversion of C doubles to and from strings, is derived from the file of the same name by David M. Gay, currently available.
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-------

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A. HISTORY OF THE SOFTWARE

Python was created in the early 1990s by Guido van Rossum at Stichting
Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands
as a successor of a language called ABC. Guido remains Python's
principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for
National Research Initiatives (CNRI, see http://www.cnri.reston.va.us)
in Reston, Virginia where he released several versions of the
software.

In May 2000, Guido and the Python core development team moved to
BeOpen.com to form the BeOpen PythonLabs team. In October of the same
year, the PythonLabs team moved to Digital Creations, which became
Zope Corporation. In 2001, the Python Software Foundation (PSF, see
https://www.python.org/psf/) was formed, a non-profit organization
created specifically to own Python-related Intellectual Property.
Zope Corporation was a sponsoring member of the PSF.

All Python releases are Open Source (see http://www.opensource.org for
the Open Source Definition). Historically, most, but not all, Python
releases have also been GPL-compatible; the table below summarizes
the various releases.
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Thanks to the many outside volunteers who have worked under Guido's direction to make these releases possible.

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1.58 asm 4.2

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/**
 * Creates a new {@link GeneratorAdapter}. <i>Subclasses must not use this
 * constructor</i>. Instead, they must use the
 * {@link #GeneratorAdapter(int, MethodVisitor, int, String, String)}
 * version.
 *
 * @param mv
 *            the method visitor to which this adapter delegates calls.
 * @param access
 *            the method's access flags (see {@link Opcodes}).
 * @param name
 *            the method's name.
 * @param desc
 *            the method's descriptor (see {@link Type Type}).
 */

Found in path(s):
* /opt/cola/permits/1136703576_1613864943.01/0/asm-4-2-sources-1-
dar/jar/org/objectweb/asm/commons/GeneratorAdapter.java
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*/
/**
 * Constructs a new [@link Textifier]. <i>Subclasses must not use this
 * constructor</i>. Instead, they must use the [@link Textifier(int)]
 * version.
 */

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/***
 * Creates a new JSRInliner. <i>Subclasses must not use this
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 * [ @link #JSRInlinerAdapter(int, MethodVisitor, int, String, String, String, String[])](/opt/cola/permits/1136703576_1613864943.01/0/asm-4-2-sources-1-jar/org/objectweb/asm/commons/JSRInlinerAdapter.java)
 * version.
 *
 * @param mv
 *    the <code>MethodVisitor</code> to send the resulting inlined
 *    method code to (use <code>null</code> for none).
 * @param access
 *    the method's access flags (see [ @link Opcodes]). This
 *    parameter also indicates if the method is synthetic and/or
 *    deprecated.
 * @param name
 *    the method's name.
 * @param desc
 *    the method's descriptor (see [ @link Type]).
 * @param signature
 *    the method's signature. May be <tt>null</tt>.
 * @param exceptions
 *    the internal names of the method's exception classes (see
 *    [ @link Type#getName()](/opt/cola/permits/1136703576_1613864943.01/0/asm-4-2-sources-1-jar/org/objectweb/asm/commons/JSRInlinerAdapter.java)
 *    May be <tt>null</tt>.
 */

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* Creates a new [@link AnalyzerAdapter]. <i>Subclasses must not use this constructor</i>. Instead, they must use the [@link #AnalyzerAdapter(int, String, int, String, String, MethodVisitor)]
* version.

* @param owner
  * the owner's class name.
* @param access
  * the method's access flags (see [@link Opcodes]).
* @param name
  * the method's name.
* @param desc
  * the method's descriptor (see [@link Type Type]).
* @param mv
  * the method visitor to which this adapter delegates calls. May be <tt>null</tt>.

Found in path(s):
* /opt/cola/permits/1136703576_1613864943.01/0/asm-4-2-sources-1-jar/org/objectweb/asm/commons/AnalyzerAdapter.java

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***
* ASM: a very small and fast Java bytecode manipulation framework
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jar/org/objectweb/asm/commons/AdviceAdapter.java
* /opt/cola/permits/1136703576_1613864943.01/0/asm-4-2-sources-1-
  jar/org/objectweb/asm/util/CheckSignatureAdapter.java
* /opt/cola/permits/1136703576_1613864943.01/0/asm-4-2-sources-1-
  jar/org/objectweb/asm/tree/MultiANewArrayInsnNode.java
* /opt/cola/permits/1136703576_1613864943.01/0/asm-4-2-sources-1-
  jar/org/objectweb/asm/MethodWriter.java
* /opt/cola/permits/1136703576_1613864943.01/0/asm-4-2-sources-1-
  jar/org/objectweb/asm/commons/SimpleRemapper.java
* /opt/cola/permits/1136703576_1613864943.01/0/asm-4-2-sources-1-
  jar/org/objectweb/asm/commons/RemappingMethodAdapter.java
* /opt/cola/permits/1136703576_1613864943.01/0/asm-4-2-sources-1-
  jar/org/objectweb/asm/analysis/SourceValue.java
* /opt/cola/permits/1136703576_1613864943.01/0/asm-4-2-sources-1-
  jar/org/objectweb/asm/util/CheckClassAdapter.java
* /opt/cola/permits/1136703576_1613864943.01/0/asm-4-2-sources-1-
  jar/org/objectweb/asm/tree/TableSwitchInsnNode.java
* /opt/cola/permits/1136703576_1613864943.01/0/asm-4-2-sources-1-
  jar/org/objectweb/asm/util/Printer.java
* /opt/cola/permits/1136703576_1613864943.01/0/asm-4-2-sources-1-
  jar/org/objectweb/asm/tree/analysis/Frame.java
* /opt/cola/permits/1136703576_1613864943.01/0/asm-4-2-sources-1-
  jar/org/objectweb/asm/tree/FieldNode.java
* /opt/cola/permits/1136703576_1613864943.01/0/asm-4-2-sources-1-
  jar/org/objectweb/asm/tree/analysis/Subroutine.java
* /opt/cola/permits/1136703576_1613864943.01/0/asm-4-2-sources-1-
  jar/org/objectweb/asm/Type.java
* /opt/cola/permits/1136703576_1613864943.01/0/asm-4-2-sources-1-
  jar/org/objectweb/asm/optimizer/ClassConstantsCollector.java
* /opt/cola/permits/1136703576_1613864943.01/0/asm-4-2-sources-1-
  jar/org/objectweb/asm/commons/RemappingSignatureAdapter.java
* /opt/cola/permits/1136703576_1613864943.01/0/asm-4-2-sources-1-
  jar/org/objectweb/asm/ClassReader.java
* /opt/cola/permits/1136703576_1613864943.01/0/asm-4-2-sources-1-
  jar/org/objectweb/asm/ClassWriter.java
* /opt/cola/permits/1136703576_1613864943.01/0/asm-4-2-sources-1-
  jar/org/objectweb/asm/tree/TypeInsnNode.java
* /opt/cola/permits/1136703576_1613864943.01/0/asm-4-2-sources-1-
  jar/org/objectweb/asm/util/TraceClassVisitor.java
* /opt/cola/permits/1136703576_1613864943.01/0/asm-4-2-sources-1-
  jar/org/objectweb/asm/AnnotationWriter.java
* /opt/cola/permits/1136703576_1613864943.01/0/asm-4-2-sources-1-
  jar/org/objectweb/asm/optimizer/AnnotationConstantsCollector.java
* /opt/cola/permits/1136703576_1613864943.01/0/asm-4-2-sources-1-
  jar/org/objectweb/asm/Label.java
* /opt/cola/permits/1136703576_1613864943.01/0/asm-4-2-sources-1-
  jar/org/objectweb/asm/tree/FieldInsnNode.java
* /opt/cola/permits/1136703576_1613864943.01/0/asm-4-2-sources-1-
  jar/org/objectweb/asm/tree/analysis/SimpleVerifier.java
* /opt/cola/permits/1136703576_1613864943.01/0/asm-4-2-sources-1-
  jar/org/objectweb/asm/tree/InsnNode.java
* /opt/cola/permits/1136703576_1613864943.01/0/asm-4-2-sources-1-
  jar/org/objectweb/asm/commons/Method.java
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* /opt/cola/permits/1136703576_1613864943.01/0/asm-4-2-sources-1-jar/org/objectweb/asm/signature/package.html
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# Contributions to the urllib3 project

## Creator & Maintainer

* Andrey Petrov <andrey.petrov@shazow.net>

## Contributors

In chronological order:

* victor.vde <http://code.google.com/u/victor.vde/>
* HTTPS patch (which inspired HTTPSConectionPool)

* erikcederstrand <http://code.google.com/u/erikcederstrand/>
* NTLM-authenticated HTTPSConectionPool
* Basic-authenticated HTTPSConectionPool (merged into make_headers)

* niphlod <niphlod@gmail.com>
* Client-verified SSL certificates for HTTPSConectionPool
* Response gzip and deflate encoding support
* Better unicode support for filepost using StringIO buffers

* btoconnor <brian@btoconnor.net>
* Non-multipart encoding for POST requests

* p.dobrogost <http://code.google.com/u/@WBRSRIBZDhBFXQB6/>
* Code review, PEP8 compliance, benchmark fix

* kennethreitz <me@kennethreitz.com>
* Bugfixes, suggestions, Requests integration

* georgemarshall <http://github.com/georgemarshall>
* Bugfixes, Improvements and Test coverage

* Thomas Kluyver <thomas@kluyver.me.uk>
* Python 3 support

* brandon-rhodes <http://rhodesmill.org/brandon>
* Design review, bugfixes, test coverage.

* studer <theo.studer@gmail.com>
* IPv6 url support and test coverage

* Shivaram Lingamneni <slingmn@cs.stanford.edu>
* Support for explicitly closing pooled connections
* hartator <hartator@gmail.com>
  * Corrected multipart behavior for params

* Thomas Weischuh <thomas@t-8ch.de>
  * Support for TLS SNI
  * API unification of ssl_version/cert_reqs
  * SSL fingerprint and alternative hostname verification
  * Bugfixes in testsuite

* Sune Kirkeby <mig@ibofobi.dk>
  * Optional SNI-support for Python 2 via PyOpenSSL.

* Marc Schlaich <marc.schlaich@gmail.com>
  * Various bugfixes and test improvements.

* Bryce Boe <bbzbryce@gmail.com>
  * Correct six.moves conflict
  * Fixed pickle support of some exceptions

* Boris Figovsky <boris.figovsky@ravellosystems.com>
  * Allowed to skip SSL hostname verification

* Cory Benfield <http://lukasa.co.uk/about/>
  * Stream method for Response objects.
  * Return native strings in header values.
  * Generate 'Host' header when using proxies.

* Jason Robinson <jaywink@basshero.org>
  * Add missing WrappedSocket.fileno method in PyOpenSSL

* Audrius Butkevicius <audrius.butkevicius@elastichosts.com>
  * Fixed a race condition

* Stanislav Vitkovskiy <stas.vitkovsky@gmail.com>
  * Added HTTPS (CONNECT) proxy support

* Stephen Holsapple <sholsapp@gmail.com>
  * Added abstraction for granular control of request fields

* Martin von Gagern <Martin.vGagern@gmx.net>
  * Support for non-ASCII header parameters

* Kevin Burke <kev@inburke.com> and Pavel Kirichenko <juanych@yandex-team.ru>
  * Support for separate connect and request timeouts

* Peter Waller <p@pwaller.net>
  * HTTPResponse.tell() for determining amount received over the wire
* Nipunn Koorapati <nipunn1313@gmail.com>
  * Ignore default ports when comparing hosts for equality

* Danilo @dbrgn <http://dbrgn.ch/>
  * Disabled TLS compression by default on Python 3.2+
  * Disabled TLS compression in pyopenssl contrib module
  * Configurable cipher suites in pyopenssl contrib module

* Roman Bogorodskiy <roman.bogorodskiy@ericsson.com>
  * Account retries on proxy errors

* Nicolas Delaby <nicolas.delaby@ezeep.com>
  * Use the platform-specific CA certificate locations

* Josh Schneier <https://github.com/jschneier>
  * HTTPHeaderDict and associated tests and docs
  * Bugfixes, docs, test coverage

* Tahia Khan <http://tahia.tk/>
  * Added Timeout examples in docs

* Arthur Grunseid <http://grunseid.com>
  * source_address support and tests (with https://github.com/bui)

* Ian Cordasco <graffatcolmingov@gmail.com>
  * PEP8 Compliance and Linting
  * Add ability to pass socket options to an HTTP Connection

* Erik Tollerud <erik.tollerud@gmail.com>
  * Support for standard library io module.

* Krishna Prasad <kprasad.iitd@gmail.com>
  * Google App Engine documentation

* Aaron Meurer <asmeurer@gmail.com>
  * Added Url.url, which unparses a Url

* Evgeny Kapun <abacabadabacaba@gmail.com>
  * Bugfixes

* Benjamen Meyer <bm_witness@yahoo.com>
  * Security Warning Documentation update for proper capture

* Shivan Sornarajah <github@sornars.com>
  * Support for using ConnectionPool and PoolManager as context managers.

* Alex Gaynor <alex.gaynor@gmail.com>
  * Updates to the default SSL configuration
* Tomas Tomecek <ttomecek@redhat.com>
  * Implemented generator for getting chunks from chunked responses.

* tlynn <https://github.com/tlynn>
  * Respect the warning preferences at import.

* David D. Riddle <ddriddle@illinois.edu>
  * IPv6 bugfixes in testsuite

* Jon Wayne Parrott <jonwayne@google.com>
  * App Engine environment tests.

* John Krauss <https://github.com/talos>
  * Clues to debugging problems with `cryptography` dependency in docs

* Disassem <https://github.com/Disassem>
  * Fix pool-default headers not applying for url-encoded requests like GET.

* James Atherfold <jlatherfold@hotmail.com>
  * Bugfixes relating to cleanup of connections during errors.

* Christian Pedersen <https://github.com/chripede>
  * IPv6 HTTPS proxy bugfix

* Jordan Moldow <https://github.com/jmoldow>
  * Fix low-level exceptions leaking from `HTTPResponse.stream()`.
  * Bugfix for `ConnectionPool.urlopen(release_conn=False)`.
  * Creation of `HTTPConnectionPool.ResponseCls`.

* Predrag Gruevski <https://github.com/obi1kenobi>
  * Made cert digest comparison use a constant-time algorithm.

* Adam Talsma <https://github.com/a-tal>
  * Bugfix to ca_cert file paths.

* Evan Meagher <https://evanmeagher.net>
  * Bugfix related to `memoryview` usage in PyOpenSSL adapter

* John Vandenberg <jayvdb@gmail.com>
  * Python 2.6 fixes; pyflakes and pep8 compliance

* Andy Caldwell <andy.m.caldwell@googlemail.com>
  * Bugfix related to reusing connections in indeterminate states.

* Ville Skytt <ville.skytta@iki.fi>
  * Logging efficiency improvements, spelling fixes, Travis config.
* Shige Takeda <smtakeda@gmail.com>
  * Started Recipes documentation and added a recipe about handling concatenated gzip data in HTTP response

* Jesse Shapiro <jesse@jesseshapiro.net>
  * Various character-encoding fixes/tweaks
  * Disabling IPv6 DNS when IPv6 connections not supported

* David Foster <http://dafoster.net/>
  * Ensure order of request and response headers are preserved.

* Jeremy Cline <jeremy@jcline.org>
  * Added connection pool keys by scheme

* Aviv Palivoda <palaviv@gmail.com>
  * History list to Retry object.
  * HTTPResponse contains the last Retry object.

* Nate Prewitt <nate.prewitt@gmail.com>
  * Ensure timeouts are not booleans and greater than zero.
  * Fixed infinite loop in `stream` when amt=None.
  * Added length_remaining to determine remaining data to be read.
  * Added enforce_content_length to raise exception when incorrect content-length received.

* Seth Michael Larson <sethmichaellarson@protonmail.com>
  * Created selectors backport that supports PEP 475.

* Alexandre Dias <alex.dias@smarkets.com>
  * Don't retry on timeout if method not in whitelist

* Moinuddin Quadri <moin18@gmail.com>
  * Lazily load idna package

* Tom White <s6yg1ez3@mail2tor.com>
  * Made SOCKS handler differentiate socks5h from socks5 and socks4a from socks4.

* Tim Burke <tim.burke@gmail.com>
  * Stop buffering entire deflate-encoded responses.

* Tuukka Mustonen <tuukka.mustonen@gmail.com>
  * Add counter for status_forcelist retries.

* Erik Rose <erik@mozilla.com>
  * Bugfix to pyopenssl vendoring

* [Your name or handle] <[email or website]>
  * [Brief summary of your changes]

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Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.
The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, while the latter only works together with the library.

Note that it is possible for a library to be covered by the ordinary General Public License rather than by this special one.

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A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification").

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

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You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) The modified work must itself be a software library.

b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest
your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License.
Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also compile or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)
b) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

c) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

d) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above,

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<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

That's all there is to it!

1.64 rsync 2.5.0

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Some devices are designed to deny users access to install or run modified versions of the software inside them, although the manufacturer can do so. This is fundamentally incompatible with the aim of protecting users' freedom to change the software. The systematic pattern of such abuse occurs in the area of products for individuals to use, which is precisely where it is most unacceptable. Therefore, we have designed this version of the GPL to prohibit the practice for those products. If such problems arise substantially in other domains, we stand ready to extend this provision to those domains in future versions of the GPL, as needed to protect the freedom of users.

Finally, every program is threatened constantly by software patents. States should not allow patents to restrict development and use of software on general-purpose computers, but in those that do, we wish to avoid the special danger that patents applied to a free program could make it effectively proprietary. To prevent this, the GPL assures that patents cannot be used to render the program non-free.

The precise terms and conditions for copying, distribution and modification follow.

TERMS AND CONDITIONS

0. Definitions.

"This License" refers to version 3 of the GNU General Public License.

"Copyright" also means copyright-like laws that apply to other kinds of works, such as semiconductor masks.

"The Program" refers to any copyrightable work licensed under this License. Each licensee is addressed as "you". "Licensees" and "recipients" may be individuals or organizations.

To "modify" a work means to copy from or adapt all or part of the work in a fashion requiring copyright permission, other than the making of an
exact copy. The resulting work is called a "modified version" of the earlier work or a work "based on" the earlier work.

A "covered work" means either the unmodified Program or a work based on the Program.

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The "source code" for a work means the preferred form of the work for making modifications to it. "Object code" means any non-source form of a work.

A "Standard Interface" means an interface that either is an official standard defined by a recognized standards body, or, in the case of interfaces specified for a particular programming language, one that is widely used among developers working in that language.

The "System Libraries" of an executable work include anything, other than the work as a whole, that (a) is included in the normal form of packaging a Major Component, but which is not part of that Major Component, and (b) serves only to enable use of the work with that Major Component, or to implement a Standard Interface for which an implementation is available to the public in source code form. A "Major Component", in this context, means a major essential component (kernel, window system, and so on) of the specific operating system (if any) on which the executable work runs, or a compiler used to produce the work, or an object code interpreter used to run it.
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A compilation of a covered work with other separate and independent works, which are not by their nature extensions of the covered work, and which are not combined with it such as to form a larger program, in or on a volume of a storage or distribution medium, is called an "aggregate" if the compilation and its resulting copyright are not used to limit the access or legal rights of the compilation's users beyond what the individual works permit. Inclusion of a covered work in an aggregate does not cause this License to apply to the other parts of the aggregate.

6. Conveying Non-Source Forms.

You may convey a covered work in object code form under the terms of sections 4 and 5, provided that you also convey the machine-readable Corresponding Source under the terms of this License, in one of these ways:

a) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by the Corresponding Source fixed on a durable physical medium customarily used for software interchange.

b) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by a written offer, valid for at least three years and valid for as long as you offer spare parts or customer support for that product model, to give anyone who possesses the object code either (1) a copy of the Corresponding Source for all the software in the product that is covered by this License, on a durable physical medium customarily used for software interchange, for a price no more than your reasonable cost of physically performing this conveying of source, or (2) access to copy the Corresponding Source from a network server at no charge.

c) Convey individual copies of the object code with a copy of the written offer to provide the Corresponding Source. This alternative is allowed only occasionally and noncommercially, and only if you received the object code with such an offer, in accord with subsection 6b.

d) Convey the object code by offering access from a designated place (gratis or for a charge), and offer equivalent access to the Corresponding Source in the same way through the same place at no
further charge. You need not require recipients to copy the Corresponding Source along with the object code. If the place to copy the object code is a network server, the Corresponding Source may be on a different server (operated by you or a third party) that supports equivalent copying facilities, provided you maintain clear directions next to the object code saying where to find the Corresponding Source. Regardless of what server hosts the Corresponding Source, you remain obligated to ensure that it is available for as long as needed to satisfy these requirements.

e) Convey the object code using peer-to-peer transmission, provided you inform other peers where the object code and Corresponding Source of the work are being offered to the general public at no charge under subsection 6d.

A separable portion of the object code, whose source code is excluded from the Corresponding Source as a System Library, need not be included in conveying the object code work.

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"Installation Information" for a User Product means any methods, procedures, authorization keys, or other information required to install and execute modified versions of a covered work in that User Product from a modified version of its Corresponding Source. The information must suffice to ensure that the continued functioning of the modified object code is in no case prevented or interfered with solely because modification has been made.

If you convey an object code work under this section in, or with, or specifically for use in, a User Product, and the conveying occurs as part of a transaction in which the right of possession and use of the User Product is transferred to the recipient in perpetuity or for a fixed term (regardless of how the transaction is characterized), the Corresponding Source conveyed under this section must be accompanied by the Installation Information. But this requirement does not apply if neither you nor any third party retains the ability to install
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1.67 python 3.8.5
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In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see http://www.cnri.reston.va.us) in Reston, Virginia where he released several versions of the software.
In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations, which became Zope Corporation. In 2001, the Python Software Foundation (PSF, see https://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation was a sponsoring member of the PSF.

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1.83 jackson-dataformat-cbor 2.9.6
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1.86 gdbm 1.14.1

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1.89 python-certifi 2018.1.18-2

1.89.1 Available under license :
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ca-bundle.crt -- Bundle of CA Root Certificates

Certificate data from Mozilla as of: Thu Nov  3 19:04:19 2011#
This is a bundle of X.509 certificates of public Certificate Authorities (CA). These were automatically extracted from Mozilla's root certificates file (certdata.txt). This file can be found in the mozilla source tree: http://mxr.mozilla.org/mozilla/source/security/nss/lib/ckfw/builtins/certdata.txt?raw=1#
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@(#) $RCSfile: certdata.txt,v $ $Revision: 1.80 $ $Date: 2011/11/03 15:11:58 $

1.90 perl-text-parsewords 3.29-4.amzn2
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Precedence: normal
Subject: [rt.cpan.org #90483] missing license file
From: "Alexandr Ciornii via RT" <bug-Text-ParseWords@rt.cpan.org>
Reply-To: bug-Text-ParseWords@rt.cpan.org
In-Reply-To: <rt-4.0.18-4704-1384789048-1647.90483-6-0@rt.cpan.org>
References: <RT-Ticket-90483@rt.cpan.org>
<rt-4.0.18-4704-1384789048-1647.90483-6-0@rt.cpan.org>
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--
Alexandr Ciornii, http://chorny.net

1.91 zlib 1.2.11

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1.92 procps 3.3.12-3ubuntu1.2

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1.93 elfutils 0.168-1
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1.94 masterminds-semver 1.5.0

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1.95 ansi-regex 3.0.0

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1.96 p11-kit 0.23.16.1-1

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=encoding utf8

=head1 NAME

parent - Establish an ISA relationship with base classes at compile time

=head1 SYNOPSIS

package Baz;
use parent qw(Foo Bar);

=head1 DESCRIPTION

 Allows you to both load one or more modules, while setting up inheritance from those modules at the same time. Mostly similar in effect to

 package Baz;
 BEGIN {
   require Foo;
   require Bar;
   push @ISA, qw(Foo Bar);
 }

 By default, every base class needs to live in a file of its own.
 If you want to have a subclass and its parent class in the same file, you can tell C<parent> not to load any modules by using the C<-norequire> switch:

 package Foo;
 sub exclaim { "I CAN HAS PERL" }  

 package DoesNotLoadFooBar;
 use parent -norequire, 'Foo', 'Bar';
 # will not go looking for Foo.pm or Bar.pm

 This is equivalent to the following code:

 package Foo;
 sub exclaim { "I CAN HAS PERL" }  

 package DoesNotLoadFooBar;
 push @DoesNotLoadFooBar::ISA, 'Foo', 'Bar';

 This is also helpful for the case where a package lives within a differently named file:
package MyHash;
use Tie::Hash;
use parent -norequire, 'Tie::StdHash';

This is equivalent to the following code:

package MyHash;
require Tie::Hash;
push @ISA, 'Tie::StdHash';

If you want to load a subclass from a file that C<require> would
not consider an eligible filename (that is, it does not end in
either C.<.pm> or C.<.pmc>), use the following code:

package MySecondPlugin;
require './plugins/custom.plugin'; # contains Plugin::Custom
use parent -norequire, 'Plugin::Custom';

=head1 DIAGNOSTICS

=over 4

=item Class 'Foo' tried to inherit from itself

Attempting to inherit from yourself generates a warning.

package Foo;
use parent 'Foo';

=back

=head1 HISTORY

This module was forked from L<base> to remove the cruft
that had accumulated in it.

=head1 CAVEATS

=head1 SEE ALSO

L<base>

=head1 AUTHORS AND CONTRIBUTORS

Rafaël Garcia-Suarez, Bart Lateur, Max Maischein, Anno Siegel, Michael Schwern

=head1 MAINTAINER
Max Maischein C< corion@cpan.org >

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Based on the idea of C<base.pm>, which was introduced with Perl 5.004_04.

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=cut

Found in path(s):
* /opt/cola/permits/1150898244_1639177148.91/0/perl-parent-0.225-244.amzn2.0.1.src.rpm-cosi-expand-archive-
  iAegj5Jh/parent-0.225.tar.gz-cosi-expand-archive-TRlJrQ3b/parent-0.225/lib/parent.pm

1.98 nano 2.9.8-2.amzn2.0.1

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1.101 python-pyasn1-modules 0.2.1-0.2

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1.102 is-symbol 1.0.3

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1.103 pango 1.40.5-1

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Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.

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"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

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1.110 cdebconf 0.213ubuntu1

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1.112 source-map 0.8.0-beta.0

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1.113 net-tools 1.60+git20161116.90da8a0

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1.129 libtextwrapinperl 0.06-7.1

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1.130 popt 1.13-16.amzn2.0.2

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1.131 bsdmainutils 11.1.2ubuntu1

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together by Ian Murdock <imurdock@gnu.ai.mit.edu>. Please report any
problems or suggested additions or changes to Austin Donnelly.

Then the package has been maintained by Charles Briscoe-Smith
<cpbs@debian.org>. I gathered data for the 1999-2001 calendar files
from various sources on the Internet, and I'd also like to thank Oliver
Elphick, Julian Gilbey, Daniel Martin and Jaldhar H. Vyas for providing
much useful data on the various religious calendars. I have edited the
files they provided to fit calendar's requirements, so any errors should
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After cpbs@debian.org, Marco d'Itri <md@linux.it> maintained it for
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1.132 statuses 1.5.0
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1.133 querystring-es3 0.2.1
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1.134 openssl 1.1.1c
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The End
1.135 libgpg-error 1.36

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1.147 zap 1.14.1

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1.154 mlocate 0.26

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The End

#!perl

=head1 NAME

copyright.t

=head1 DESCRIPTION

Tests that the latest copyright years in the top-level README file and the C<perl -v> output match each other.

If the test fails, update at least one of README and perl.c so that they match reality.

Optionally you can pass the C<--now> option to check they are at the current year. This isn't checked by default, so that it doesn't fail for people working on older releases. It should be run before making a new release.

=cut

use strict;
use Config;
BEGIN { require './test.pl' }

if ( $Config{usecrosscompile} ) { skip_all( "Not all files are available during cross-compilation" ); }

=cut
my ($opt) = @ARGV;

my $readme_year = readme_year();
my $v_year = v_year();

# Check that both copyright dates are up-to-date, but only if requested, so
# that tests still pass for people intentionally working on older versions:
if ($opt eq 'now')
{
  my $current_year = (gmtime)[5] + 1900;
  is $v_year, $current_year, 'perl -v copyright includes current year';
  is $readme_year, $current_year, 'README copyright includes current year';
}

# Otherwise simply check that the two copyright dates match each other:
else
{
  is $readme_year, $v_year, 'README and perl -v copyright dates match';
}

done_testing;

sub readme_year
# returns the latest copyright year from the top-level README file
{
  open my $readme, '<', '../README' or die "Opening README failed: $!";

  # The copyright message is the first paragraph:
  local $/ = "";
  my $copyright_msg = <$readme>;

  my ($year) = $copyright_msg =~ /.*(\d{4,})/s
    or die "Year not found in README copyright message '$copyright_msg'";

  $year;
}

sub v_year
# returns the latest copyright year shown in perl -v
{
  my $output = runperl switches => ['-v'];
  my ($year) = $output =~ /copyright 1987.*(\d{4,})/s
    or die "Copyright statement not found in perl -v output '$output'";

  $year;
}
1.161 path-browserify 1.0.1

1.161.1 Available under license :

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1.162 symbol-observable 1.2.0

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1.163 lz4 1.7.5-2.amzn2.0.1

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Version 3, 29 June 2007

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Julian Seward, jseward@bzip.org
bzip2/libbzip2 version 1.0.6 of 6 September 2010

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DRuntime: Runtime Library for the D Programming Language

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cmd/krb5/slave/kpropd_rpc.c
lib/gss_mechs/mech_krb5/et/kdb5_err.c
lib/gss_mechs/mech_spnego/mech/gssapiP_spnego.h
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lib/gssapi/mechglue/g_acquire_cred.c
lib/gssapi/mechglue/g_canon_name.c
lib/gssapi/mechglue/g_compare_name.c
lib/gssapi/mechglue/g_context_time.c
lib/gssapi/mechglue/g_delete_sec_context.c
lib/gssapi/mechglue/g_dsp_name.c
lib/gssapi/mechglue/g_dsp_status.c
lib/gssapi/mechglue/g_dup_name.c
lib/gssapi/mechglue/g_exp_sec_context.c
lib/gssapi/mechglue/g_export_name.c
lib/gssapi/mechglue/g glue.c
lib/gssapi/mechglue/g_imp_name.c
lib/gssapi/mechglue/g_imp_sec_context.c
lib/gssapi/mechglue/g_init_sec_context.c
lib/gssapi/mechglue/g_initialize.c
lib/gssapi/mechglue/g_inquire_context.c
lib/gssapi/mechglue/g_inquire_cred.c
lib/gssapi/mechglue/g_inquire_names.c
lib/gssapi/mechglue/g_process_context.c
lib/gssapi/mechglue/g_rel_buffer.c
lib/gssapi/mechglue/g_rel_cred.c
lib/gssapi/mechglue/g_rel_name.c
lib/gssapi/mechglue/g_rel_oid_set.c
lib/gssapi/mechglue/g_seal.c
lib/gssapi/mechglue/g_sign.c
lib/gssapi/mechglue/g_store_cred.c
lib/gssapi/mechglue/g_unseal.c
lib/gssapi/mechglue/g_userok.c
lib/gssapi/mechglue/g utils.c
lib/gssapi/mechglue/g_verify.c
lib/gssapi/mechglue/gssd_pname_to_uid.c
lib/gssapi/mechglue/mglueP.h
lib/gssapi/mechglue/oid_ops.c
and the initial implementation of incremental propagation, including
the following new or changed files:

include/iprop_hdr.h
kadmin/server/ipropd_svc.c
lib/kdb/iprop.x
lib/kdb/kdb_convert.c
lib/kdb/kdb_log.c
lib/kdb/kdb_log.h
lib/krb5/error_tables/kdb5_err.et
kprop/kpropd_rpc.c
kprop/kproplog.c

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tools/travis-ci/knownfailures-Ubuntu12.04-clang3.9.0-x86_64-Debug-3rdP.txt
tools/travis-ci/knownfailures-Ubuntu12.04-clang3.9.0-x86_64-Release-3rdP.txt
tools/travis-ci/knownfailures-Ubuntu12.04-gcc4.6.3-i386-Release-3rdP.txt
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tools/travis-ci/knownfailures-all.txt
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1.193 masterminds-semver 1.5.0

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If such an object file uses only numerical parameters, data
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functions (ten lines or less in length), then the use of the object
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Otherwise, if the work is a derivative of the Library, you may
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1.210 ast-types 0.13.2

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1.211 lz4 0.0~r131 2ubuntu3

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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

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If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

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hostname -- set the host name or show the host/domain name

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. The file `src/libs/snprintf/snprintf.c', written by Mark Martinec <mark.martinec@ijs.si>.

Please look into snprintf.c for the copyright message.
The complete snprintf package together with documentation is available from

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The original package can be found at

src/preproc/grn/gprint.h
src/preproc/grn/hdb.cpp
src/preproc/grn/hgraph.cpp
src/preproc/grn/hpoint.cpp
src/preproc/grn/main.cpp

The `gxditview' output device. It is based on X11's `xditview' program and thus has the X license.

src/devices/xditview/DESC.in
src/devices/xditview/Dvi.c
src/devices/xditview/Dvi.h
src/devices/xditview/DviP.h
src/devices/xditview/FontMap
src/devices/xditview/GXditview.ad
src/devices/xditview/Menu.h
src/devices/xditview/ad2c
src/devices/xditview/device.c
src/devices/xditview/device.h
src/devices/xditview/draw.c
src/devices/xditview/font.c
src/devices/xditview/gray1.bm
src/devices/xditview/gray2.bm
src/devices/xditview/gray3.bm
src/devices/xditview/gray4.bm
src/devices/xditview/gray5.bm
src/devices/xditview/gray6.bm
src/devices/xditview/gray7.bm
src/devices/xditview/gray8.bm
src/devices/xditview/gxditview.man
src/devices/xditview/lex.c
src/devices/xditview/page.c
src/devices/xditview/parse.c
src/devices/xditview/xdit.bm
Macro Packages
--------------

. The -mdoc macro set, using the BSD license.

tmac/doc.tmac
tmac/doc-old.tmac
tmac/doc-common
tmac/doc-ditroff
tmac/doc-nroff
tmac/doc-syms
tmac/groff_mdoc.man

. The -me macro set, using the BSD license.

tmac/e.tmac
tmac/groff_me.man
doc/meintro.me
doc/meintro_fr.me
doc/meref.me

Hyphenation Patterns
---------------------

. The file `tmac/hyphen.us' is identical to the file `hyphen.tex', part of
the TeX system written by Donald E. Knuth; the master file can be found
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ftp://labrea.stanford.edu/pub/tex/dist/lib/hyphen.tex

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under the filenames `hyphen.<language>', e.g. `hyphen.de' or
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. The file `tmac/hyphen.fr' contains the same patterns as the file
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1.246 lodash.isplainobject 4.0.6

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<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice
That's all there is to it!

**1.248 python-defaults 2.7.15~rc1-1**

**1.248.1 Available under license:**

The Debian packaging is 2010, Piotr Oarowski <piotr@debian.org> and is licensed under the MIT License.

This is the Debian GNU/Linux prepackaged version of the Python programming language. Python was written by Guido van Rossum <guido@cwi.nl> and others.

This package was put together by Klee Dienes <klee@debian.org> from sources from ftp.python.org:/pub/python, based on the Debianization by the previous maintainers Bernd S. Brentrup <bsb@uni-muenster.de> and Bruce Perens.

Current maintainer is Matthias Klose <doko@debian.org> until the final 2.3 version is released.

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A. HISTORY OF THE SOFTWARE
=========================

Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see http://www.cnri.reston.va.us) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope Corporation, see http://www.zope.com). In 2001, the Python Software Foundation (PSF, see http://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of the PSF.

All Python releases are Open Source (see http://www.opensource.org for the Open Source Definition). Historically, most, but not all, Python
releases have also been GPL-compatible; the table below summarizes the various releases.

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1.249 argon2 0~20161029 1.1
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Argon2 reference source code package - reference C implementations

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[This is the first released version of the library GPL. It is numbered 2 because it goes with version 2 of the ordinary GPL.]

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public Licenses are intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users.

This license, the Library General Public License, applies to some specially designated Free Software Foundation software, and to any
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When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the library, or if you modify it.

For example, if you distribute copies of the library, whether gratis or for a fee, you must give the recipients all the rights that we gave you. You must make sure that they, too, receive or can get the source code. If you link a program with the library, you must provide complete object files to the recipients so that they can relink them with the library, after making changes to the library and recompiling it. And you must show them these terms so they know their rights.

Our method of protecting your rights has two steps: (1) copyright the library, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the library.

Also, for each distributor's protection, we want to make certain that everyone understands that there is no warranty for this free library. If the library is modified by someone else and passed on, we want its recipients to know that what they have is not the original version, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that companies distributing free software will individually obtain patent licenses, thus in effect transforming the program into proprietary software. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License, which was designed for utility programs. This license, the GNU Library General Public License, applies to certain designated libraries. This license is quite different from the ordinary one; be sure to read it in full, and don't assume that anything in it is the same as in the ordinary license.
The reason we have a separate public license for some libraries is that they blur the distinction we usually make between modifying or adding to a program and simply using it. Linking a program with a library, without changing the library, is in some sense simply using the library, and is analogous to running a utility program or application program. However, in a textual and legal sense, the linked executable is a combined work, a derivative of the original library, and the ordinary General Public License treats it as such.

Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, while the latter only works together with the library.

Note that it is possible for a library to be covered by the ordinary General Public License rather than by this special one.

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0. This License Agreement applies to any software library which contains a notice placed by the copyright holder or other authorized party saying it may be distributed under the terms of this Library General Public License (also called "this License"). Each licensee is addressed as "you".

A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the
Library" means either the Library or any derivative work under
copyright law: that is to say, a work containing the Library or a
portion of it, either verbatim or with modifications and/or translated
straightforwardly into another language. (Hereinafter, translation is
included without limitation in the term "modification".)

"Source code" for a work means the preferred form of the work for
making modifications to it. For a library, complete source code means
all the source code for all modules it contains, plus any associated
interface definition files, plus the scripts used to control compilation
and installation of the library.

Activities other than copying, distribution and modification are not
covered by this License; they are outside its scope. The act of
running a program using the Library is not restricted, and output from
such a program is covered only if its contents constitute a work based
on the Library (independent of the use of the Library in a tool for
writing it). Whether that is true depends on what the Library does
and what the program that uses the Library does.

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2. You may modify your copy or copies of the Library or any portion
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above, provided that you also meet all of these conditions:

a) The modified work must itself be a software library.

b) You must cause the files modified to carry prominent notices
stating that you changed the files and the date of any change.

c) You must cause the whole of the work to be licensed at no
charge to all third parties under the terms of this License.

d) If a facility in the modified Library refers to a function or a
table of data to be supplied by an application program that uses
the facility, other than as an argument passed when the facility
is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of the Library into a program that is not a library.
4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also compile or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work
under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

c) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

d) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot
use both them and the Library together in an executable that you distribute.

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1.258 lvm2 2.02.173

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Preamble
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Finally, software patents pose a constant threat to the existence of any free program. We wish to make sure that a company cannot effectively restrict the users of a free program by obtaining a restrictive license from a patent holder. Therefore, we insist that
any patent license obtained for a version of the library must be consistent with the full freedom of use specified in this license.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License. This license, the GNU Lesser General Public License, applies to certain designated libraries, and is quite different from the ordinary General Public License. We use this license for certain libraries in order to permit linking those libraries into non-free programs.

When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

Although the Lesser General Public License is Less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a
"work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

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   b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

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   d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

      (For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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4. You may copy and distribute the Library (or a portion or
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under the terms of Sections 1 and 2 above provided that you accompany
it with the complete corresponding machine-readable source code, which
must be distributed under the terms of Sections 1 and 2 above on a
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If distribution of object code is made by offering access to copy
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b) Use a suitable shared library mechanism for linking with the
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copy of the library already present on the user's computer system,
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Gocheck - A rich testing framework for Go

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* configure.ac, Makefile.am: The original versions were derived from the ones in the XML Catalog Manager project, version 2.2.

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* atf-c/cui.c: The format_paragraph and format_text functions were derived from the ones in the Monotone project, revision 3a0982da308228d796df35f98d787c5cf2bb5b6.

  Author: Julio Merino <jmmv@NetBSD.org>

* atf-c++/detail/io.hpp, atf-c++/detail/io.cpp, atf-c++/detail/io_test.cpp: These files were derived from the file_handle, systembuf, pipe and pistream classes and tests found in the Boost.Process library.

  Author: Julio Merino <jmmv84@gmail.com>

* admin/check-style.sh, admin/check-style-common.awk, admin/check-style-cpp.awk, admin/check-style-shell.awk: These files, except the first one, were first implemented in the Buildtool project. They were later adapted to be part of Boost.Process and, during that process, the shell script was created.
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1.276 d3-drag 1.2.5
1.276.1 Available under license :

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1.277 zlib 1.2.5
1.277.1 Available under license :
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   version 1.2.5, April 19th, 2010

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   jloup@gzip.org          madler@alumni.caltech.edu

   The data format used by the zlib library is described by RFCs (Request for
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1.278 node.js 12.16.3
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// Original can be found at:
// https://bitbucket.org/lindenlab/lsl
// Modifications by Joshua Bell inexorabletash@gmail.com
// https://github.com/inexorabletash/polyfill

// ES3/ES5 implementation of the Khronos Typed Array Specification
// Ref: http://www.khronos.org/registry/typedarray/specs/latest/
// Date: 2011-02-01
//
// Variations:
// * Allows typed_array.get/set() as alias for subscripts (typed_array[])
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Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands as a successor of a language called ABC. Guido remains Python’s principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see http://www.cnri.reston.va.us) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations, which became Zope Corporation. In 2001, the Python Software Foundation (PSF, see https://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation was a sponsoring member of the PSF.

All Python releases are Open Source (see http://www.opensource.org for the Open Source Definition). Historically, most, but not all, Python releases have also been GPL-compatible; the table below summarizes the various releases.

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<th>Owner</th>
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(2) According to Richard Stallman, 1.6.1 is not GPL-compatible, because its license has a choice of law clause. According to CNRI, however, Stallman's lawyer has told CNRI's lawyer that 1.6.1 is "not incompatible" with the GPL.

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wcwidth.js: JavaScript Portng of Markus Kuhn's wcwidth() Implementation
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This package is a JavaScript porting of `wcwidth()` implementation
[by Markus Kuhn](http://www.cl.cam.ac.uk/~mgk25/ucs/wcwidth.c).

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# spdx-license-ids
A list of [SPDX license](https://spdx.org/licenses/) identifiers

## Installation

[Download JSON directly](https://raw.githubusercontent.com/shinnn/spdx-license-ids/master/index.json), or [use](https://docs.npmjs.com/cli/install) [npm](https://docs.npmjs.com/getting-started/what-is-npm):

```bash
npm install spdx-license-ids
```

## [Node.js](https://nodejs.org/) API

### require('spdx-license-ids')

Type: `<Array<string>>`

All license IDs except for the currently deprecated ones.

```javascript
const ids = require('spdx-license-ids');
//=> ['0BSD', 'AAL', 'Abstyles', 'Adobe-2006', 'Adobe-Glyph', 'ADSL', 'AFL-1.1', 'AFL-1.2', ...

ids.includes('BSD-3-Clause'); //=> true
ids.includes('CC-BY-1.0'); //=> true

ids.includes('GPL-3.0'); //=> false
```

### require('spdx-license-ids/deprecated')

Type: `<Array<string>>`

Deprecated license IDs.

```javascript
const deprecatedIds = require('spdx-license-ids/deprecated');
//=> ['AGPL-1.0', 'AGPL-3.0', 'eCos-2.0', 'GFDL-1.1', 'GFDL-1.2', 'GFDL-1.3', 'GPL-1.0', ...

deprecatedIds.includes('BSD-3-Clause'); //=> false
deprecatedIds.includes('CC-BY-1.0'); //=> false

deprecatedIds.includes('GPL-3.0'); //=> true
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- PCRE test suite, located in test/mjsunit/third_party/regexp-pcre/regexp-pcre.js. This is based on the test suite from PCRE-7.3, which is copyrighted by the University of Cambridge and Google, Inc. The copyright notice and license are embedded in regexp-pcre.js.

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- Valgrind client API header, located at src/third_party/valgrind/valgrind.h This is released under the BSD license.

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openssl/crypto/threads_pthread.c,
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  './config/archs/BSD-x86/asm_avx2/crypto/bf/bf-586.s',
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  './config/archs/BSD-x86/asm_avx2/crypto/whirlpool/wp-mmx.s',
  './config/archs/BSD-x86/asm_avx2/crypto/x86cpuid.s',
  './config/archs/BSD-x86/asm_avx2/engines/e_padlock-x86.s',
],

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'OPENSSL_IA32_SSE2',
'OPENSSL_BN_ASM_MONT',
'OPENSSL_BN_ASM_GF2m',
'SHA1_ASM',
'SHA256_ASM',
'SHA512_ASM',
'RC4_ASM',
'MD5_ASM',
'RMD160_ASM',
'AESNI_ASM',
'VPAES_ASM',
'WHIRLPOOL_ASM',
'GHASH_ASM',
'ECP_NISTZ256_ASM',
}
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Version 2, June 1991

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<one line to give the program's name and a brief idea of what it does.>
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Also add information on how to contact you by electronic and paper mail.

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Gnomovision version 69, Copyright (C) 19yy name of author
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Ty Coon, President of Vice
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    'OPENSSL_BN_ASM_MONT',
    'OPENSSL_BN_ASM_GF2m',
    'SHA1_ASM',
    'SHA256_ASM',
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    'RC4_ASM',
    'MD5_ASM',
    'RMD160_ASM',
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   'openssl/apps/crl2p7.c',
   'openssl/apps/dgst.c',
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   'openssl/apps/dsaparam.c',
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'openssl/ssl/packet.c',
'openssl/ssl/pqueue.c',
'openssl/ssl/record/dtls1_bitmap.c',
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'openssl/ssl/record/rec_layer_s3.c',
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openssl/crypto/evp/evp_err.c,
openssl/crypto/evp/evp_key.c,
openssl/crypto/evp/evp_lib.c,
openssl/crypto/evp/evp_pbe.c,
openssl/crypto/evp/evp_pkey.c,
openssl/crypto/evp/m_md2.c,
openssl/crypto/evp/m_md4.c,
openssl/crypto/evp/m_md5.c,
openssl/crypto/evp/m_md5_sha1.c,
openssl/crypto/evp/m_mdc2.c,
openssl/crypto/pkcs12/p12_kiss.c,
openssl/crypto/pkcs12/p12_mutl.c,
openssl/crypto/pkcs12/p12_npas.c,
openssl/crypto/pkcs12/p12_p8d.c,
openssl/crypto/pkcs12/p12_p8e.c,
openssl/crypto/pkcs12/p12_sbag.c,
openssl/crypto/pkcs12/p12_utl.c,
openssl/crypto/pkcs12/pk12err.c,
openssl/crypto/pk7/bio_pk7.c,
openssl/crypto/pk7/pk7_asn1.c,
openssl/crypto/pk7/pk7_attr.c,
openssl/crypto/pk7/pk7_doit.c,
openssl/crypto/pk7/pk7_lib.c,
openssl/crypto/pk7/pk7_mime.c,
openssl/crypto/pk7/pk7_smime.c,
openssl/crypto/pkcs7err.c,
openssl/crypto/poly1305/poly1305.c,
openssl/crypto/poly1305/poly1305_ameth.c,
openssl/crypto/poly1305/poly1305_pmeth.c,
openssl/crypto/rand/drbg_ctr.c,
openssl/crypto/rand/drbg_lib.c,
openssl/crypto/rand/rand_egd.c,
openssl/crypto/rand/rand_err.c,
openssl/crypto/rand/rand_lib.c,
openssl/crypto/rand/rand_unix.c,
openssl/crypto/rand/rand_vms.c,
openssl/crypto/rand/rand_win.c,
openssl/crypto/rand/randfile.c,
openssl/crypto/rc2/rc2_cbc.c,
openssl/crypto/rc2/rc2_ecb.c,
openssl/crypto/rc2/rc2_skey.c,
openssl/crypto/rc2/rc2ofb64.c,
openssl/crypto/rc2/rc2ofb64ameth.c,
openssl/crypto/ripemd/rmd_dgst.c,
openssl/crypto/ripemd/rmd_one.c,
openssl/crypto/rsa/rsa_ameth.c,
openssl/crypto/rsa/rsa_asn1.c,
openssl/crypto/rsa/rsa_chk.c,
openssl/crypto/rsa/rsa_crpt.c,
openssl/crypto/rsa/rsa_depr.c,
openssl/crypto/rsa/rsa_err.c,
openssl/crypto/rsa/rsa_gen.c,
openssl/crypto/rsa/rsa_lib.c,
openssl/crypto/rsa/rsa_meth.c,
openssl/crypto/rsa/rsa_mp.c,
openssl/crypto/rsa/rsa_none.c,
openssl/crypto/rsa/rsa_oaep.c,
openssl/crypto/rsa/rsa_ossl.c,
openssl/crypto/ts/ts_rsp_utils.c,
openssl/crypto/ts/ts_rsp_verify.c,
openssl/crypto/ts/ts_verify_ctx.c,
openssl/crypto/txt_db/txt_db.c,
openssl/crypto/ui/ui_err.c,
openssl/crypto/ui/ui_lib.c,
openssl/crypto/ui/ui_null.c,
openssl/crypto/ui/ui_openssl.c,
openssl/crypto/ui/ui_util.c,
openssl/crypto/uiid.c,
openssl/crypto/whirlpool/wp_dgst.c,
openssl/crypto/x509/by_dir.c,
openssl/crypto/x509/by_file.c,
openssl/crypto/x509/t_crl.c,
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openssl/crypto/x509/x509_v3.c,
openssl/crypto/x509/x509_vfy.c,
openssl/crypto/x509/x509_vpm.c,
openssl/crypto/x509/x509cset.c,
openssl/crypto/x509/x509name.c,
openssl/crypto/x509/x509rset.c,
openssl/crypto/x509/x509spki.c,
openssl/crypto/x509/x509type.c,
openssl/crypto/x509/x_all.c,
openssl/crypto/x509/x_attrib.c,
openssl/crypto/x509/x_crl.c,
openssl/crypto/x509/x_exten.c,
openssl/crypto/x509/x_name.c,
openssl/crypto/x509/x_pubkey.c,
openssl/crypto/x509/x_req.c,
openssl/crypto/x509/x_x509.c,
openssl/crypto/x509/x_x509a.c,
openssl/crypto/x509v3/pcy_cache.c,
'openssl/crypto/x509v3/pcy_data.c',
'openssl/crypto/x509v3/pcy_lib.c',
'openssl/crypto/x509v3/pcy_map.c',
'openssl/crypto/x509v3/pcy_node.c',
'openssl/crypto/x509v3/pcy_tree.c',
'openssl/crypto/x509v3/v3_addr.c',
'openssl/crypto/x509v3/v3_admis.c',
'openssl/crypto/x509v3/v3_akey.c',
'openssl/crypto/x509v3/v3_akeya.c',
'openssl/crypto/x509v3/v3_alt.c',
'openssl/crypto/x509v3/v3_asid.c',
'openssl/crypto/x509v3/v3_bcons.c',
'openssl/crypto/x509v3/v3_bitst.c',
'openssl/crypto/x509v3/v3_conf.c',
'openssl/crypto/x509v3/v3_cpols.c',
'openssl/crypto/x509v3/v3_crld.c',
'openssl/crypto/x509v3/v3_enum.c',
'openssl/crypto/x509v3/v3_extku.c',
'openssl/crypto/x509v3/v3_genn.c',
'openssl/crypto/x509v3/v3_ia5.c',
'openssl/crypto/x509v3/v3_info.c',
'openssl/crypto/x509v3/v3_int.c',
'openssl/crypto/x509v3/v3_lib.c',
'openssl/crypto/x509v3/v3_ncons.c',
'openssl/crypto/x509v3/v3_pci.c',
'openssl/crypto/x509v3/v3_pci.a',
'openssl/crypto/x509v3/v3_pcons.c',
'openssl/crypto/x509v3/v3_pku.c',
'openssl/crypto/x509v3/v3_pmaps.c',
'openssl/crypto/x509v3/v3_prn.c',
'openssl/crypto/x509v3/v3_prup.c',
'openssl/crypto/x509v3/v3_skey.c',
'openssl/crypto/x509v3/v3_sxnet.c',
'openssl/crypto/x509v3/v3_tlsf.c',
'openssl/crypto/x509v3/v3_utl.c',
'openssl/crypto/x509v3/v3_err.c',
'openssl/engines/e_capl.c',
'openssl/engines/e_padlock.c',
'},
'openssl_sources_BSD-x86_64': [
'./config/archs/BSD-x86_64/asm/crypto/aes/aesni-mb-x86_64.s',
'./config/archs/BSD-x86_64/asm/crypto/aes/aesni-sa1-x86_64.s',
'./config/archs/BSD-x86_64/asm/crypto/aes/aesni-sha256-x86_64.s',
'./config/archs/BSD-x86_64/asm/crypto/aes/aesni-x86_64.s',
'./config/archs/BSD-x86_64/asm/crypto/vpaes-x86_64.s',
'./config/archs/BSD-x86_64/asm/crypto/bn/rsa-sa256-x86_64.s',
'./config/archs/BSD-x86_64/asm/crypto/bn/rsa-x86_64.s',
'./config/archs/BSD-x86_64/asm/crypto/bn/x86_64-gf2m.s',
]


`,./config/archs/BSD-x86_64/asm/crypto/bn/x86_64-mont.s`

`,./config/archs/BSD-x86_64/asm/crypto/camellia/cmll-x86_64.s`

`,./config/archs/BSD-x86_64/asm/crypto/chacha/chacha-x86_64.s`

`,./config/archs/BSD-x86_64/asm/crypto/ec/ecp_nistz256-x86_64.s`

`,./config/archs/BSD-x86_64/asm/crypto/ec/x25519-x86_64.s`

`,./config/archs/BSD-x86_64/asm/crypto/md5/md5-x86_64.s`

`,./config/archs/BSD-x86_64/asm/crypto/modes/aesni-gcm-x86_64.s`

`,./config/archs/BSD-x86_64/asm/crypto/modes/ghash-x86_64.s`

`,./config/archs/BSD-x86_64/asm/crypto/poly1305/poly1305-x86_64.s`

`,./config/archs/BSD-x86_64/asm/crypto/rc4/rc4-md5-x86_64.s`

`,./config/archs/BSD-x86_64/asm/crypto/rc4/rc4-x86_64.s`

`,./config/archs/BSD-x86_64/asm/crypto/sha/keccak1600-x86_64.s`

`,./config/archs/BSD-x86_64/asm/crypto/sha/sha1-md-x86_64.s`

`,./config/archs/BSD-x86_64/asm/crypto/sha/sha256-md-x86_64.s`

`,./config/archs/BSD-x86_64/asm/crypto/sha/sha512-x86_64.s`

`,./config/archs/BSD-x86_64/asm/crypto/whirlpool/wp-x86_64.s`

`,./config/archs/BSD-x86_64/asm/crypto/x86_64cpuid.s`

`,./config/archs/BSD-x86_64/asm/engines/e_padlock-x86_64.s`

`

`openssl_defines_BSD-x86_64`: ['NDEBUG',
'L_ENDIAN',
'OPENSSL_PIcep',
'OPENSSL_CPUID_OBJ',
'OPENSSL_IA32_SSE2',
'OPENSSL_BN_ASM_MONT',
'OPENSSL_BN_ASM_MONT5s',
'OPENSSL_BN_ASM_GF2m',
'SHA1_ASM',
'SHA256_ASM',
'SHA512_ASM',
'KECCAK1600_ASM',
'RC4_ASM',
'MD5_ASM',
'AESNI_ASM',
'VPAES_ASM',
'GHASH_ASM',
'ECP_NISTZ256_ASM',
'X25519_ASM',
'POLY1305_ASM',
]

`openssl_cflags_BSD-x86_64`: ['-Wa,--noexecstack',
'-Wall -O3',
'-pthread',
]


`-Wall -O3`
]

`openssl_ex_libs_BSD-x86_64`: [ 
`-pthread`
]
]

`include_dirs`: [ 
`..`
`./include`
`./crypto`
`./crypto/include/internal`
]

`defines`: ['<@(openssl_defines_BSD-x86_64)'],
`cflags` : ['<@(openssl_cflags_BSD-x86_64)'],
`libraries`: ['<@(openssl_ex_libs_BSD-x86_64)'],
`sources`: ['<@(openssl_sources)', '<@(openssl_sources_BSD-x86_64)'],
}

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validate-npm-package-license

Give me a string and I'll tell you if it's a valid npm package license string.

```javascript
var valid = require('validate-npm-package-license');
```

SPDX license identifiers are valid license strings:
open source used in cisco cloud mailbox defense -cmd (project raptor) april 2021

```javascript
var assert = require('assert');
var validSPDXExpression = {
    validForNewPackages: true,
    validForOldPackages: true,
    spdx: true
};

assert.deepEqual(valid('MIT'), validSPDXExpression);
assert.deepEqual(valid('BSD-2-Clause'), validSPDXExpression);
assert.deepEqual(valid('Apache-2.0'), validSPDXExpression);
assert.deepEqual(valid('ISC'), validSPDXExpression);
```  

The function will return a warning and suggestion for nearly-correct license identifiers:

```javascript
assert.deepEqual(
    valid('Apache 2.0'),
    {
        validForOldPackages: false,
        validForNewPackages: false,
        warnings: [
            'license should be ' +
            'a valid SPDX license expression (without "LicenseRef"), ' +
            '"UNLICENSED", or ' +
            '"SEE LICENSE IN <filename>"',
            'license is similar to the valid expression "Apache-2.0"'
        ]
    }
);```

SPDX expressions are valid, too ...

```javascript
// Simple SPDX license expression for dual licensing
assert.deepEqual(
    valid('(GPL-3.0-only OR BSD-2-Clause)'),
    validSPDXExpression
);```

... except if they contain `LicenseRef`:

```javascript
var warningAboutLicenseRef = {
```
validForOldPackages: false,
validForNewPackages: false,
spdx: true,
warnings: [
  'license should be ' +
  'a valid SPDX license expression (without "LicenseRef"), ' +
  '"UNLICENSED", or ' +
  '"SEE LICENSE IN <filename>"',
]
];

assert.deepEqual(
  valid('LicenseRef-Made-Up'),
  warningAboutLicenseRef
);

assert.deepEqual(
  valid('(MIT OR LicenseRef-Made-Up)'),
  warningAboutLicenseRef
);
```
```

If you can't describe your licensing terms with standardized SPDX identifiers, put the terms in a file in the package
and point users there:
```
```

```javascript
assert.deepEqual(
  valid('SEE LICENSE IN LICENSE.txt'),
  {
    validForNewPackages: true,
    validForOldPackages: true,
    inFile: 'LICENSE.txt'
  }
);
```

assert.deepEqual(
  valid('SEE LICENSE IN license.md'),
  {
    validForNewPackages: true,
    validForOldPackages: true,
    inFile: 'license.md'
  }
);
```
```

If there aren't any licensing terms, use `UNLICENSED`:
```
```

```javascript
```
var unlicensed = {
    validForNewPackages: true,
    validForOldPackages: true,
    unlicensed: true
};
assert.deepEqual(valid('UNLICENSED'), unlicensed);
assert.deepEqual(valid('UNLICENCED'), unlicensed);

1.279 python-ply 3.4-11.amzn2
1.279.1 Available under license:

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PLY (Python Lex-Yacc) Version 3.4

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Introduction
============
PLY is a 100% Python implementation of the common parsing tools lex and yacc. Here are a few highlights:

- PLY is very closely modeled after traditional lex/yacc. If you know how to use these tools in C, you will find PLY to be similar.

- PLY provides *very* extensive error reporting and diagnostic information to assist in parser construction. The original implementation was developed for instructional purposes. As a result, the system tries to identify the most common types of errors made by novice users.

- PLY provides full support for empty productions, error recovery, precedence specifiers, and moderately ambiguous grammars.

- Parsing is based on LR-parsing which is fast, memory efficient, better suited to large grammars, and which has a number of nice properties when dealing with syntax errors and other parsing problems. Currently, PLY builds its parsing tables using the LALR(1) algorithm used in yacc.

- PLY uses Python introspection features to build lexers and parsers. This greatly simplifies the task of parser construction since it reduces the number of files and eliminates the need to run a separate lex/yacc tool before running your program.

- PLY can be used to build parsers for "real" programming languages. Although it is not ultra-fast due to its Python implementation, PLY can be used to parse grammars consisting of several hundred rules (as might be found for a language like C). The lexer and LR parser are also reasonably efficient when parsing typically sized programs. People have used PLY to build parsers for C, C++, ADA, and other real programming languages.

How to Use

PLY consists of two files : lex.py and yacc.py. These are contained within the 'ply' directory which may also be used as a Python package. To use PLY, simply copy the 'ply' directory to your project and import lex and yacc from the associated 'ply' package. For example:

```python
import ply.lex as lex
import ply.yacc as yacc
```

Alternatively, you can copy just the files lex.py and yacc.py
individually and use them as modules. For example:

import lex
import yacc

The file setup.py can be used to install ply using distutils.

The file doc/ply.html contains complete documentation on how to use the system.

The example directory contains several different examples including a PLY specification for ANSI C as given in K&R 2nd Ed.

A simple example is found at the end of this document

Requirements
==============
PLY requires the use of Python 2.2 or greater. However, you should use the latest Python release if possible. It should work on just about any platform. PLY has been tested with both CPython and Jython. It also seems to work with IronPython.

Resources
==========
More information about PLY can be obtained on the PLY webpage at:

http://www.dabeaz.com/ply

For a detailed overview of parsing theory, consult the excellent book "Compilers : Principles, Techniques, and Tools" by Aho, Sethi, and Ullman. The topics found in "Lex & Yacc" by Levine, Mason, and Brown may also be useful.

A Google group for PLY can be found at

http://groups.google.com/group/ply-hack

Acknowledgments
=================
A special thanks is in order for all of the students in CS326 who suffered through about 25 different versions of these tools :-).

The CHANGES file acknowledges those who have contributed patches.

Elias Ioup did the first implementation of LALR(1) parsing in PLY-1.x. Andrew Waters and Markus Schoepflin were instrumental in reporting bugs and testing a revised LALR(1) implementation for PLY-2.0.
Special Note for PLY-3.0

PLY-3.0 the first PLY release to support Python 3. However, backwards compatibility with Python 2.2 is still preserved. PLY provides dual Python 2/3 compatibility by restricting its implementation to a common subset of basic language features. You should not convert PLY using 2to3—it is not necessary and may in fact break the implementation.

Example

Here is a simple example showing a PLY implementation of a calculator with variables.

```python
# calc.py
#
# A simple calculator with variables.
#

tokens = ('NAME', 'NUMBER', 'PLUS', 'MINUS', 'TIMES', 'DIVIDE', 'EQUALS', 'LPAREN', 'RPAREN',)

t_PLUS = r'+'
t_MINUS = r'-'
t_TIMES = r'\*'
t_DIVIDE = r'/'
t_EQUALS = r'='
t_LPAREN = r'('
t_RPAREN = r')'
t_NAME = r'[a-zA-Z_]\[a-zA-Z0-9_]*'  

def t_NUMBER(t):
    r'\d+'
    t.value = int(t.value)
    return t

t_ignore = " \t"

def t_newline(t):
    r'\n+'
    t.lexer.lineno += t.value.count("\n")
```
def t_error(t):
    print("Illegal character %s" % t.value[0])
t.lexer.skip(1)

# Build the lexer
import ply.lex as lex
lex.lex()

# Precedence rules for the arithmetic operators
precedence = (
    ('left','PLUS','MINUS'),
    ('left','TIMES','DIVIDE'),
    ('right','UMINUS'),
)

# dictionary of names (for storing variables)
names = { }

def p_statement_assign(p):
    'statement : NAME EQUALS expression'
    names[p[1]] = p[3]

def p_statement_expr(p):
    'statement : expression'
    print(p[1])

def p_expression_binop(p):
    "expression : expression PLUS expression
    | expression MINUS expression
    | expression TIMES expression
    | expression DIVIDE expression"

def p_expression_uminus(p):
    'expression : MINUS expression %prec UMINUS'
    p[0] = -p[2]

def p_expression_group(p):
    'expression : LPAREN expression RPAREN'
    p[0] = p[2]

def p_expression_number(p):
    'expression : NUMBER'
    p[0] = p[1]
def p_expression_name(p):
    'expression : NAME'
    try:
        p[0] = names[p[1]]
    except LookupError:
        print("Undefined name '%s'" % p[1])
        p[0] = 0

def p_error(p):
    print("Syntax error at '%s'" % p.value)

import ply.yacc as yacc
yacc.yacc()

while 1:
    try:
        s = raw_input('calc > ')   # use input() on Python 3
    except EOFError:
        break
    yacc.parse(s)

Bug Reports and Patches
=======================
My goal with PLY is to simply have a decent lex/yacc implementation for Python. As a general rule, I don't spend huge amounts of time working on it unless I receive very specific bug reports and/or patches to fix problems. I also try to incorporate submitted feature requests and enhancements into each new version. To contact me about bugs and/or new features, please send email to dave@dabeaz.com.

In addition there is a Google group for discussing PLY related issues at

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-- Dave

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Name: ply
Version: 3.4
Summary: Python Lex & Yacc
Home-page: http://www.dabeaz.com/ply/
Author: David Beazley
Author-email: dave@dabeaz.com
License: BSD
Description:

PLY is yet another implementation of lex and yacc for Python. Some notable
features include the fact that it implemented entirely in Python and it
uses LALR(1) parsing which is efficient and well suited for larger grammars.

PLY provides most of the standard lex/yacc features including support for empty
productions, precedence rules, error recovery, and support for ambiguous grammars.

PLY is extremely easy to use and provides very extensive error checking.
It is compatible with both Python 2 and Python 3.

Platform: UNKNOWN
Classifier: Programming Language :: Python :: 3
Classifier: Programming Language :: Python :: 2

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```
Gnomovision version 69, Copyright (C) 19yy name of author
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<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

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1.287 ocpsoft-pretty-time 1.0.7
1.287.1 Available under license:

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1.288 glib 2.56.4-0ubuntu0.18.04.8
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End

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Gnomovision version 69, Copyright (C) year name of author
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This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate
parts of the General Public License. Of course, the commands you use may
be called something other than `show w' and `show c'; they could even be
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`Gnomovision' (which makes passes at compilers) written by James Hacker.

<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

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1.296 d3-fetch 1.1.2
1.296.1 Available under license:
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1.297 mpdecimal 2.4.2-1
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1.298 perl-threads-shared 1.43-6.amzn2.0.2

1.298.1 Available under license :

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---
abstract: 'Perl extension for sharing data structures between threads'
author:
- 'Artur Bergman, Jerry D. Hedden <jdhedden AT cpan DOT org>'
build_requires:
  ExtUtils::MakeMaker: 0
configure_requires:
  ExtUtils::MakeMaker: 0
dynamic_config: 1
generated_by: 'ExtUtils::MakeMaker version 6.64, CPAN::Meta::Converter version 2.120921'
license: perl
meta-spec:
  url: http://module-build.sourceforge.net/META-spec-v1.4.html
  version: 1.4
name: threads-shared
no_index:
directory:
  - t
  - inc
requires:
  Carp: 0
  Config: 0
  ExtUtils::testlib: 0
  Scalar::Util: 0
  Test: 0
  Test::More: 0
  XSLoader: 0
  strict: 0
  threads: 1.73
  warnings: 0
  version: 1.43

Found in path(s):
  */opt/cola/permits/1150898438_1634082378.42/0/perl-threads-shared-1.43-6.amzn2.0.2.src.rpm-cosi-expand-archive-xa0Ph3z/threads-shared-1.43.tar.gz-cosi-expand-archive-D1jKI0Un/threads-shared-1.43/META.yml
No license file was found, but licenses were detected in source scan.

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This program is free software; you can redistribute it and/or modify it under
the same terms as Perl itself.

Found in path(s):
  * /opt/cola/permits/1150898438_1634082378.42/0/perl-threads-shared-1.43-6.amzn2.0.2.src.rpm-cosi-expand-archive-xa0PhQ3z/threads-shared-1.43.tar.gz-cosi-expand-archive-D1jKl0Un/threads-shared-1.43/examples/class.pl

No license file was found, but licenses were detected in source scan.

Name: perl-threads-shared
Version: 1.43
Release: 6% (?dist).0.2
Summary: Perl extension for sharing data structures between threads
License: GPL+ or Artistic
Group: Development/Libraries
URL: http://search.cpan.org/dist/threads-shared/
Source0: http://www.cpan.org/authors/id/J/JD/JDHEDDEN/threads-shared-%{version}.tar.gz
BuildRequires: perl
BuildRequires: perl(Carp)
BuildRequires: perl(Config)
BuildRequires: perl(ExtUtils::MakeMaker)
BuildRequires: perl(ExtUtils::testlib)
BuildRequires: perl(File::Path)
BuildRequires: perl(File::Spec)
BuildRequires: perl(POSIX)
BuildRequires: perl(Scalar::Util)
BuildRequires: perl(strict)
BuildRequires: perl(Test::More)
BuildRequires: perl(threads) >= 1.73
BuildRequires: perl(warnings)
BuildRequires: perl(XSLoader)
Requires: perl(:MODULE_COMPAT_%(eval "perl -V:version"; echo $version))
Requires: perl(Carp)
Requires: perl(threads) >= 1.73
Requires: perl(XSLoader)

%{?perl_default_filter}

%description
By default, variables are private to each thread, and each newly created
thread gets a private copy of each existing variable. This module allows
you to share variables across different threads (and pseudo-forks on
Win32). It is used together with the threads module.

%prep
%setup -q -n threads-shared-%{version}
* Mon Sep 10 2012 Petr Pisar <ppisar@redhat.com> - 1.41-1
  - 1.41 bump

* Mon Aug 13 2012 Marcela Malov <mmaslano@redhat.com> - 1.40-240
  - bump release to override sub-package from perl.spec

* Fri Jul 20 2012 Fedora Release Engineering <rel-eng@lists.fedoraproject.org> - 1.40-4
  - Rebuilt for https://fedoraproject.org/wiki/Fedora_18_Mass_Rebuild

* Wed Jun 06 2012 Petr Pisar <ppisar@redhat.com> - 1.40-3
  - Perl 5.16 rebuild

* Sat Jan 14 2012 Fedora Release Engineering <rel-eng@lists.fedoraproject.org> - 1.40-2
  - Rebuilt for https://fedoraproject.org/wiki/Fedora_17_Mass_Rebuild

* Mon Sep 12 2011 Petr Pisar <ppisar@redhat.com> - 1.40-1
  - 1.40 bump

* Tue Sep 06 2011 Petr Pisar <ppisar@redhat.com> - 1.39-1
  - 1.39 bump

* Wed Aug 17 2011 Marcela Malov <mmaslano@redhat.com> - 1.37-3
  - change path on vendor, so our debuginfo are not conflicting with perl core debuginfos

* Mon Jun 20 2011 Marcela Malov <mmaslano@redhat.com> - 1.37-2
  - Perl mass rebuild

* Tue Apr 26 2011 Petr Pisar <ppisar@redhat.com> - 1.37-1
  - 1.37 bump

* Wed Feb 09 2011 Fedora Release Engineering <rel-eng@lists.fedoraproject.org> - 1.36-2
  - Rebuilt for https://fedoraproject.org/wiki/Fedora_15_Mass_Rebuild

* Mon Jan 03 2011 Petr Pisar <ppisar@redhat.com> - 1.36-1
  - 1.36 bump

* Mon Oct 11 2010 Petr Pisar <ppisar@redhat.com> - 1.34-1
  - 1.34 bump

* Thu Sep 23 2010 Petr Pisar <ppisar@redhat.com> 1.33-1
  - Specfile autogenerated by cpanspec 1.78.
  - Fix dependencies
  - Requires perl(Scalar::Util) is autodetected
  - Do not provide private library
  - Remove pre-F12 BuildRoot stuff

Found in path(s):
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/*
................................................................................................................

ppport.h -- Perl/Pollution/Portability Version 3.19

Automatically created by Devel::PPPort running under perl 5.010000.

Do NOT edit this file directly! -- Edit PPPort_pm.PL and the
includes in parts/inc/ instead.

Use 'perldoc ppport.h' to view the documentation below.

................................................................................................................

SKIP

=pod

=head1 NAME

ppport.h - Perl/Pollution/Portability version 3.19

=head1 SYNOPSIS

perl ppport.h [options] [source files]

Searches current directory for files if no [source files] are given

--help show short help
--version show version
--patch=file write one patch file with changes
--copy=suffix write changed copies with suffix
--diff=program use diff program and options
--compat-version=version provide compatibility with Perl version
--cplusplus accept C++ comments
--quiet don't output anything except fatal errors
--nodiag don't show diagnostics
--nohints don't show hints
--nochanges don't suggest changes
--nofilter don't filter input files
--strip strip all script and doc functionality from ppport.h

--list-provided list provided API
--list-unsupported list unsupported API
--api-info=name show Perl API portability information

=head1 COMPATIBILITY

This version of F<ppport.h> is designed to support operation with Perl installations back to 5.003, and has been tested up to 5.10.0.

=head1 OPTIONS

=head2 --help

Display a brief usage summary.

=head2 --version

Display the version of F<ppport.h>.

=head2 --patch=I<file>

If this option is given, a single patch file will be created if any changes are suggested. This requires a working diff program to be installed on your system.

=head2 --copy=I<suffix>

If this option is given, a copy of each file will be saved with the given suffix that contains the suggested changes. This does not require any external programs. Note that this does not automagically add a dot between the original filename and the suffix. If you want the dot, you have to include it in the option argument.

If neither C<--patch> or C<--copy> are given, the default is to simply print the diffs for each file. This requires either C<Text::Diff> or a C<diff> program to be installed.

=head2 --diff=I<program>

Manually set the diff program and options to use. The default is to use C<Text::Diff>, when installed, and output unified context diffs.
Tell F<ppport.h> to check for compatibility with the given Perl version. The default is to check for compatibility with Perl version 5.003. You can use this option to reduce the output of F<ppport.h> if you intend to be backward compatible only down to a certain Perl version.

Usually, F<ppport.h> will detect C++ style comments and replace them with C style comments for portability reasons. Using this option instructs F<ppport.h> to leave C++ comments untouched.

Be quiet. Don't print anything except fatal errors.

Don't output any diagnostic messages. Only portability alerts will be printed.

Don't output any hints. Hints often contain useful portability notes. Warnings will still be displayed.

Don't suggest any changes. Only give diagnostic output and hints unless these are also deactivated.

Don't filter the list of input files. By default, files not looking like source code (i.e. not *.xs, *.c, *.cc, *.cpp or *.h) are skipped.

Strip all script and documentation functionality from F<ppport.h>. This reduces the size of F<ppport.h> dramatically and may be useful if you want to include F<ppport.h> in smaller modules without increasing their distribution size too much.

The stripped F<ppport.h> will have a C<--unstrip> option that allows you to undo the stripping, but only if an appropriate C<Devel::PPPort>
module is installed.

=head2 --list-provided

Lists the API elements for which compatibility is provided by F<ppport.h>. Also lists if it must be explicitly requested, if it has dependencies, and if there are hints or warnings for it.

=head2 --list-unsupported

Lists the API elements that are known not to be supported by F<ppport.h> and below which version of Perl they probably won't be available or work.

=head2 --api-info=I<name>

Show portability information for API elements matching I<name>. If I<name> is surrounded by slashes, it is interpreted as a regular expression.

=head1 DESCRIPTION

In order for a Perl extension (XS) module to be as portable as possible across differing versions of Perl itself, certain steps need to be taken.

=item *

Including this header is the first major one. This alone will give you access to a large part of the Perl API that hasn't been available in earlier Perl releases. Use

perl ppport.h --list-provided

to see which API elements are provided by ppport.h.

=item *

You should avoid using deprecated parts of the API. For example, using global Perl variables without the C<PL_> prefix is deprecated. Also, some API functions used to have a C<perl_> prefix. Using this form is also deprecated. You can safely use the supported API, as F<ppport.h> will provide wrappers for older Perl versions.

=item *

If you use one of a few functions or variables that were not present in
earlier versions of Perl, and that can't be provided using a macro, you have
to explicitly request support for these functions by adding one or
more C<#define>s in your source code before the inclusion of F<ppport.h>.

These functions or variables will be marked C<explicit> in the list shown
by C<--list-provided>.

Depending on whether you module has a single or multiple files that
use such functions or variables, you want either C<static> or global
variants.

For a C<static> function or variable (used only in a single source
file), use:

    #define NEED_function
    #define NEED_variable

For a global function or variable (used in multiple source files),
use:

    #define NEED_function_GLOBAL
    #define NEED_variable_GLOBAL

Note that you mustn't have more than one global request for the
same function or variable in your project.

<table>
<thead>
<tr>
<th>Function / Variable</th>
<th>Static Request</th>
<th>Global Request</th>
</tr>
</thead>
<tbody>
<tr>
<td>PL_parser</td>
<td>NEED_PL_parser</td>
<td>NEED_PL_parser_GLOBAL</td>
</tr>
<tr>
<td>PL_signals</td>
<td>NEED_PL_signals</td>
<td>NEED_PL_signals_GLOBAL</td>
</tr>
<tr>
<td>eval_pv()</td>
<td>NEED_eval_pv</td>
<td>NEED_eval_pv_GLOBAL</td>
</tr>
<tr>
<td>grok_bin()</td>
<td>NEED_grok_bin</td>
<td>NEED_grok_bin_GLOBAL</td>
</tr>
<tr>
<td>grok_hex()</td>
<td>NEED_grok_hex</td>
<td>NEED_grok_hex_GLOBAL</td>
</tr>
<tr>
<td>grok_number()</td>
<td>NEED_grok_number</td>
<td>NEED_grok_number_GLOBAL</td>
</tr>
<tr>
<td>grok_numeric_radix()</td>
<td>NEED_grok_numeric_radix</td>
<td>NEED_grok_numeric_radix_GLOBAL</td>
</tr>
<tr>
<td>grok_oct()</td>
<td>NEED_grok_oct</td>
<td>NEED_grok_oct_GLOBAL</td>
</tr>
<tr>
<td>load_module()</td>
<td>NEED_load_module</td>
<td>NEED_load_module_GLOBAL</td>
</tr>
<tr>
<td>my_snprintf()</td>
<td>NEED_my_snprintf</td>
<td>NEED_my_snprintf_GLOBAL</td>
</tr>
<tr>
<td>my_sprintf()</td>
<td>NEED_my_sprintf</td>
<td>NEED_my_sprintf_GLOBAL</td>
</tr>
<tr>
<td>my_strlcat()</td>
<td>NEED_my_strlcat</td>
<td>NEED_my_strlcat_GLOBAL</td>
</tr>
<tr>
<td>my_strlcpy()</td>
<td>NEED_my_strlcpy</td>
<td>NEED_my_strlcpy_GLOBAL</td>
</tr>
<tr>
<td>newCONSTSUB()</td>
<td>NEED_newCONSTSUB</td>
<td>NEED_newCONSTSUB_GLOBAL</td>
</tr>
<tr>
<td>newRV_noinc()</td>
<td>NEED_newRV_noinc</td>
<td>NEED_newRV_noinc_GLOBAL</td>
</tr>
<tr>
<td>newSV_type()</td>
<td>NEED_newSV_type</td>
<td>NEED_newSV_type_GLOBAL</td>
</tr>
<tr>
<td>newSVpvn_flags()</td>
<td>NEED_newSVpvn_flags</td>
<td>NEED_newSVpvn_flags_GLOBAL</td>
</tr>
<tr>
<td>newSVpvn_share()</td>
<td>NEED_newSVpvn_share</td>
<td>NEED_newSVpvn_share_GLOBAL</td>
</tr>
<tr>
<td>pv_display()</td>
<td>NEED_pv_display</td>
<td>NEED_pv_display_GLOBAL</td>
</tr>
<tr>
<td>pv_escape()</td>
<td>NEED_pv_escape</td>
<td>NEED_pv_escape_GLOBAL</td>
</tr>
</tbody>
</table>
To avoid namespace conflicts, you can change the namespace of the explicitly exported functions / variables using the C< DPPP_NAMESPACE > macro. Just C< #define > the macro before including C< ppport.h >:

```
#define DPPP_NAMESPACE MyOwnNamespace_
#include "ppport.h"
```

The default namespace is C< DPPP_>.

=back

The good thing is that most of the above can be checked by running F<ppport.h> on your source code. See the next section for details.

=head1 EXAMPLES

To verify whether F< ppport.h > is needed for your module, whether you should make any changes to your code, and whether any special defines should be used, F< ppport.h > can be run as a Perl script to check your source code. Simply say:

```
perl ppport.h
```

The result will usually be a list of patches suggesting changes that should at least be acceptable, if not necessarily the most efficient solution, or a fix for all possible problems.

If you know that your XS module uses features only available in newer Perl releases, if you're aware that it uses C++ comments, and if you want all suggestions as a single patch file, you could use something like this:

```
perl ppport.h --compat-version=5.6.0 --cplusplus --patch=test.diff
```

If you only want your code to be scanned without any suggestions
for changes, use:

    perl ppport.h --nochanges

You can specify a different C<diff> program or options, using the C<--diff> option:

    perl ppport.h --diff='diff -C 10'

This would output context diffs with 10 lines of context.

If you want to create patched copies of your files instead, use:

    perl ppport.h --copy=.new

To display portability information for the C<newSVpvn> function, use:

    perl ppport.h --api-info=newSVpvn

Since the argument to C<--api-info> can be a regular expression, you can use

    perl ppport.h --api-info=/_nomg$/

to display portability information for all C<_nomg> functions or

    perl ppport.h --api-info=/

to display information for all known API elements.

=head1 BUGS

If this version of F<ppport.h> is causing failure during the compilation of this module, please check if newer versions of either this module or C<Devel::PPPort> are available on CPAN before sending a bug report.

If F<ppport.h> was generated using the latest version of C<Devel::PPPort> and is causing failure of this module, please file a bug report using the CPAN Request Tracker at L<http://rt.cpan.org/>.

Please include the following information:

=over 4

=item 1.
The complete output from running "perl -V"

=item 2.

This file.

=item 3.

The name and version of the module you were trying to build.

=item 4.

A full log of the build that failed.

=item 5.

Any other information that you think could be relevant.

=back

For the latest version of this code, please get the C<Devel::PPPort> module from CPAN.

=head1 COPYRIGHT

Version 3.x, Copyright (c) 2004-2009, Marcus Holland-Moritz.

Version 2.x, Copyright (C) 2001, Paul Marquess.

Version 1.x, Copyright (C) 1999, Kenneth Albanowski.

This program is free software; you can redistribute it and/or modify it under the same terms as Perl itself.

=head1 SEE ALSO

See L<Devel::PPPort>.

=cut

use strict;

# Disable broken TRIE-optimization
BEGIN { eval '^{RE_TRIE_MAXBUF} = -1' if $] >= 5.009004 && $] <= 5.009005 }

my $VERSION = 3.19;

my %opt = (
quiet => 0,
diag  => 1,
hints => 1,
changes => 1,
cplusplus => 0,
filter  => 1,
strip   => 0,
version => 0,
);

my($ppport) = $0 =~ /([\w.]+)$/;
my $LF = '(?:\r\n|\[\r
\])';     # line feed
my $HS = "[ \t\]";                 # horizontal whitespace

# Never use C comments in this file!
my $ccs = '\?'.'*';
my $cce = '*\?';
my $rccs = quotemeta $ccs;
my $rcce = quotemeta $cce;

eval {
  require Getopt::Long;
  Getopt::Long::GetOptions(%opt, qw(
    help quiet diag! filter! hints! changes! cplusplus strip version
    patch=s copy=s diff=s compat-version=s
    list-provided list-unsupported api-info=s
  )) or usage();
};

if ($@ and grep /^-/, @ARGV) {
  usage() if "$ARGV" =~ /^--?h(?:elp)?$/;
  die "Getopt::Long not found. Please don't use any options.\n";
}

if ($opt{version}) {
  print "This is $0 $VERSION.\n";
  exit 0;
}

usage() if $opt{help};
strip() if $opt{strip};

if (exists $opt{'compat-version'}) {
  my($r,$v,$s) = eval { parse_version($opt{'compat-version'}) };
  if (@@) {
    die "Invalid version number format: "$opt{'compat-version'}\n";
  }
  die "Only Perl 5 is supported\n" if $r != 5;
die "Invalid version number: $opt{'compat-version'}\n" if $v >= 1000 || $s >= 1000;
$opt{'compat-version'} = sprintf "%.3d%.3d%.3d", $r, $v, $s;
}
else {
$opt{'compat-version'} = 5;
}

my %API = map { /^\w+/\|\(\[^|\]*\)\|\(\[^|\]*\)\|\(\[^|\]*\)\|\(\[^|\]*\)\|\(\[^|\]*\)\|\(\[^|\]*\)/
    ? ( $1 => {
        ( $2 ? ( base => $2 ) : () ),
        ( $3 ? ( todo => $3 ) : () ),
        ( index($4, 'v') >= 0 ? ( varargs => 1 ) : () ),
        ( index($4, 'p') >= 0 ? ( provided => 1 ) : () ),
        ( index($4, 'n') >= 0 ? ( nothxarg => 1 ) : () ),
    } )
    : die "invalid spec: $_" } qw(AvFILLp5.004050)p
AvFILL||n
CPERLscope5.005000||p
CX_CURPAD SAVE||
CX_CURPAD SV||p
CopFILEAV5.006000||p
CopFILEGV_set5.006000||p
CopFILEGV5.006000||p
CopFILESV5.006000||p
CopFILE_set5.006000||p
CopFILE5.006000||p
CopSTASHPV_set5.006000||p
CopSTASHPV5.006000||p
CopSTASH eq5.006000||p
CopSTASH_set5.006000||p
CopSTASH5.006000||p
CopyD5.009002||p
Copy||n
CvPADLIST||
CvSTASH||
CvWEAKOUTSIDE||
DEFSV_set5.011000||p
DEFSV5.004050||p
END_EXTERN_C5.005000||p
ENTER||
ERRSV5.004050||p
EXTEND||
EXTERN_C5.005000||p
F0convert||n
FREETMPS||
GIMME V5.004000n
Move
NOOP
NUM2PTR
NVTYPE
NVef
NVRf
NVgf
Newxc
Newxz
Newx
Nullav
Nullch
Nullcv
Nullhv
Nullsv
ORIGMARK
PAD_BASE_SV
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if (exists $opt{'list-unsupported'}) {
    my $f;
    for $f (sort { lc $a cmp lc $b } keys %API) {
        next unless $API{$f}{todo};
        print "$f ",
    }
    exit 0;
}

# Scan for possible replacement candidates
my(%replace, %need, %hints, %warnings, %depends);
my $replace = 0;
my($hint, $define, $function);
sub find_api
{
my $code = shift;
$code =~ s{
/ (?: \*[^*]*\*+(?:[^$ccs][^*]*\*+)* / | /[^\r\n]*)
| "[^"\\]*(?:\\.[^"\\]*)*"
| '[^'\\]*(?:\\.[^'\\]*)*' }{}egsx;
grep { exists $API{$_} } $code =~ /(\w+)/mg;
}
while (<DATA>) {
if ($hint) {
my $h = $hint->[0] eq 'Hint' ? \%hints : \%warnings;
if (m{^\s*\*\s(.*?)\s*$}) {
for (@{$hint->[1]}) {
$h->{$_} ||= ''; # suppress warning with older perls
$h->{$_} .= "$1\n";
}
}
else { undef $hint }
}
$hint = [$1, [split /,?\s+/, $2]]
if m{^\s*$rccs\s+(Hint|Warning):\s+(\w+(?:,?\s+\w+)*)\s*$};
if ($define) {
if ($define->[1] =~ /\\$/) {
$define->[1] .= $_;
}
else {
if (exists $API{$define->[0]} && $define->[1] !~ /^DPPP_\(/) {
my @n = find_api($define->[1]);
push @{$depends{$define->[0]}}, @n if @n
}
undef $define;
}
}
$define = [$1, $2] if m{^\s*#\s*define\s+(\w+)(?:\([^)]*\))?\s+(.*)};
if ($function) {
if (/^}/) {
if (exists $API{$function->[0]}) {
my @n = find_api($function->[1]);
push @{$depends{$function->[0]}}, @n if @n
}
undef $function;
}
else {

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$function->[1] = $_; 
} 
} 

$function = [S1, ] if m{^DPPP_\(my\(_\(<w+>\))\)};

$replace = S1 if m{^\(\w+\)s*$rcce\(\w+\)s+(\d+)s+\$rcce\(\w+\)$};
$replace(S2) = S1 if $replace and m{^\(\w+\)s*$\(\w+\)?(\d+)s+\$rcce\(\w+\)$};
$replace(S2) = S1 if m{^\(\w+\)s*$rcce\(\w+\)s+(\d+)s+\$rcce\(\w+\)$};
$replace(S1) = S2 if m{^\(\w+\)s*$rcce\(\w+\)s+(\w+)+\$rcce\(\w+\)$};

if (m{^\(\w+\)s*$rcce\(\w+\)s+(\w+)+\$rcce\(\w+\)$}) { 
  my @deps = map { s/\w+/g; S_ } split /, S3;
  my $d;
  for $d (map { s/\w+/g; S_ } split /, S1) {
    push @{$depends{$d}}, @deps;
  }
}

$need{S1} = 1 if m{^#if\(\w+\)s+\defined\(\w+\)$};
}

for (values %depends) {
  my %s;
  $_ = [sort grep !$s{$_}++, @$_]
}

if (exists $opt{'api-info'}) {
  my $f;
  my $count = 0;
  my $match = $opt{'api-info'} =~ m!^/(.*)/$! ? $1 : "$opt{'api-info'}";
  for $f (sort { lc $a cmp lc $b } keys %API) {
    next unless $f =~ /$match/;
    print "\n=== $f ===\n\n";
    my $info = 0;
    if ($API{$f}{base} || $API{$f}{todo}) {
      my $base = format_version($API{$f}{base} || $API{$f}{todo});
      print "Supported at least starting from perl-$base.\n";
      $info++;
    }
    if ($API{$f}{provided}) {
      my $todo = $API{$f}{todo} ? format_version($API{$f}{todo}) : "5.003";
      print "Support by $ppport provided back to perl-$todo.\n";
      print "Support needs to be explicitly requested by NEED_$f\n" if exists $need{$f};
      print "Depends on: \"; join\(\', \', @{$depends{$f}}\); \".\n" if exists $depends{$f};
      print "\nShwings\{$f\}" if exists $hints{$f};
      print \nwarnings\{$f\}" if exists $warnings{$f};
      $info++;
    }
  }
}
print "No portability information available.
" unless $info;
$count++;
}
$count or print "Found no API matching '$opt{'api-info'}'."
print "\n"
exit 0;
}

if (exists $opt{'list-provided'}) {
  my $f;
  for $f (sort { lc $a cmp lc $b } keys %API) {
    next unless $API{$f}{provided};
    my @flags;
    push @flags, 'explicit' if exists $need{$f};
    push @flags, 'depend'   if exists $depends{$f};
    push @flags, 'hint'     if exists $hints{$f};
    push @flags, 'warning'  if exists $warnings{$f};
    my $flags = @flags ? ['join(', ', @flags).'] : "",
    print "$f$flags\n";
  }
  exit 0;
}

my @files;
my @srcext = qw(.xs .c .h .cc .cpp -c.inc -xs.inc);
my $srcext = join '|', map { quotemeta $_ } @srcext;

if (@ARGV) {
  my %seen;
  for (@ARGV) {
    if (-e) {
      if (-f) {
        push @files, $_ unless $seen{$_}++;
      }
      else { warn "'$_' is not a file.\n" }
    }
    else {
      my @new = grep { -f } glob $_
      or warn "'$_' does not exist.\n";
      push @files, grep { !$seen{$_}++ } @new;
    }
  }
}
else {
  eval {
    require File::Find;
    File::Find::find(sub {

```
$File::Find::name =~ /($srcext)$/i
and push @files, $File::Find::name;
}, '.');
};
if ($@) {
@files = map { glob "*$_" } @srcext;
}
}
if (!@ARGV || $opt{filter}) {
my(@in, @out);
my %xsc = map { /(.*)\.xs$/ ? ("$1.c" => 1, "$1.cc" => 1) : () } @files;
for (@files) {
my $out = exists $xsc{$_} || /\b\Q$ppport\E$/i || !/($srcext)$/i;
push @{ $out ? \@out : \@in }, $_;
}
if (@ARGV && @out) {
warning("Skipping the following files (use --nofilter to avoid this):\n| ", join "\n| ", @out);
}
@files = @in;
}
die "No input files given!\n" unless @files;
my(%files, %global, %revreplace);
%revreplace = reverse %replace;
my $filename;
my $patch_opened = 0;
for $filename (@files) {
unless (open IN, "<$filename") {
warn "Unable to read from $filename: $!\n";
next;
}
info("Scanning $filename ...");
my $c = do { local $/; <IN> };
close IN;
my %file = (orig => $c, changes => 0);
# Temporarily remove C/XS comments and strings from the code
my @ccom;
$c =~ s{
( ^$HS*\#$HS*include\b[^\r\n]+\b(?:\Q$ppport\E|XSUB\.h)\b[^\r\n]*
| ^$HS*\#$HS*(?:define|elif|if(?:def)?)\b[^\r\n]* )

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my $func;

for $func (keys %API) {
    my $match = $func;
    $match .= "|$revreplace{$func}" if exists $revreplace{$func};
    if ($c =~ /(?:Perl_)?($match)/) {
        $file{uses_replace}{$1}++ if exists $revreplace{$func} && $1 eq $revreplace{$func};
        $file{uses_Perl}{$func}++ if $c =~ /AbPerl_$func\b/;
        if (exists $API{$func}{provided}) {
            $file{uses_provided}{$func}++;
            if (!exists $API{$func}{base} || $API{$func}{base} > $opt{'compat-version'}) {
                $file{uses}{$_} = 0 unless exists $file{uses}{$_};
            }
        }
    }
}

for ($func, @deps) {
    $file{needs}{$_} = 'static' if exists $need{$_};
}

if (exists $API{$func}{todo} && $API{$func}{todo} > $opt{'compat-version'}) {
    if ($c =~ /$func\b/) {
        $file{uses_todo}{$func}++;
    }
}
}

while ($c =~ /\#define(NEED_(\w+?)(_GLOBAL)?)\b/mg) {
    if (exists $need{$3}) {
        $file{defined $3 ? 'needed_global' : 'needed_static'}{$2}++;
    } else {
        warning("Possibly wrong #define $1 in $filename")
    }
}
}
for (qw(uses needs uses_todo needed_global needed_static)) {
for $func (keys %{$file{$_}}) {
push @{$global{$_}{$func}}, $filename;
}
}
$files{$filename} = \%file;
}
# Globally resolve NEED_'s
my $need;
for $need (keys %{$global{needs}}) {
if (@{$global{needs}{$need}} > 1) {
my @targets = @{$global{needs}{$need}};
my @t = grep $files{$_}{needed_global}{$need}, @targets;
@targets = @t if @t;
@t = grep /\.xs$/i, @targets;
@targets = @t if @t;
my $target = shift @targets;
$files{$target}{needs}{$need} = 'global';
for (@{$global{needs}{$need}}) {
$files{$_}{needs}{$need} = 'extern' if $_ ne $target;
}
}
}
for $filename (@files) {
exists $files{$filename} or next;
info("=== Analyzing $filename ===");
my %file = %{$files{$filename}};
my $func;
my $c = $file{code};
my $warnings = 0;
for $func (sort keys %{$file{uses_Perl}}) {
if ($API{$func}{varargs}) {
unless ($API{$func}{nothxarg}) {
my $changes = ($c =~ s{\b(Perl_$func\s*\(\s*)(?!aTHX_?)(\)|[^\s)]*\))}
{ $1 . ($2 eq ')' ? 'aTHX' : 'aTHX_ ') . $2 }ge);
if ($changes) {
warning("Doesn't pass interpreter argument aTHX to Perl_$func");
$file{changes} += $changes;
}
}

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except {
    warning("Uses Perl_$func instead of $func");
    $file{changes} += ($c =~ s{\bPerl_$func\($\)*\((?s*aTHX_?)?\$\)*}{ $func$1() }g);
}

for $func (sort keys %{$file{uses_replace}}) {
    warning("Uses $func instead of $replace{$func}");
    $file{changes} += ($c =~ s/$func/$replace{$func}/g);
}

for $func (sort keys %{$file{uses_provided}}) {
    if ($file{uses}{$func}) {
        if (exists $file{uses_deps}{$func}) {
            diag("Uses $func, which depends on ", join(', ', @{$file{uses_deps}{$func}}));
        } else {
            diag("Uses $func");
        }
    }
    $warnings += hint($func);
}

unless ($opt{quiet}) {
    for $func (sort keys %{$file{uses_todo}}) {
        print "*** WARNING: Uses $func, which may not be portable below perl ",
            format_version($API{$func}{todo}), ", even with 
rióport'un";
        $warnings++;
    }
}

for $func (sort keys %{$file{needed_static}}) {
    my $message = ";
    if (not exists $file{uses}{$func}) {
        $message = "No need to define NEED_$func if $func is never used";
    } elsif (exists $file{needs}{$func} & $file{needs}{$func} ne 'static') {
        $message = "No need to define NEED_$func when already needed globally";
    } if ($message) {
        diag($message);
        $file{changes} += ($c =~ s/^$HS*$HS*$define$HS*$NEED_$func\b.*$LF//mg);
    }
}

for $func (sort keys %{$file{needed_global}}) {
my $message = ";
if (not exists $global{uses}[$func]) {
    $message = "No need to define NEED_$func_GLOBAL if $func is never used";
}
elsif (exists $file{needs}[$func]) {
    if ($file{needs}[$func] eq 'extern') {
        $message = "No need to define NEED_$func_GLOBAL when already needed globally";
    }
    elsif ($file{needs}[$func] eq 'static') {
        $message = "No need to define NEED_$func_GLOBAL when only used in this file";
    }
}
if ($message) {
    diag($message);
    $file{changes} += ($c =~ s/^$HS*#$HS*define$HS+NEED_$func_GLOBAL\b.*$LF//mg);
}

$file{needs_inc_ppport} = keys %{$file{uses}};

if ($file{needs_inc_ppport}) {
    my $pp = ";

    for $func (sort keys %{$file{needs}}) {
        my $type = $file{needs}[$func];
        next if $type eq 'extern';
        my $suffix = $type eq 'global' ? '_GLOBAL' : "
        unless (exists $file{"needed_$type"}[$func]) {
            if ($type eq 'global') {
                diag("Files @ {$global{needs}[$func]} need $func, adding global request");
            }
            else {
                diag("File needs $func, adding static request");
            }
            $pp .= 
        }
    }
    if ($pp && ($c =~ s/^(?=$HS*#$HS*define$HS+NEED_.*/$pp/m)) {
        $pp = ";
        $file{changes}++;
    }
    unless ($file{has_inc_ppport}) {
        diag("Needs to include '$ppport'");
        $pp = qq(include "$ppport"
        )
    }

if ($pp) {
    $file{changes} += ($c =~ s/^($HS*#$HS*define$HS+NEED_\w+.*?)/$1$pp/ms)
    || ($c =~ s/^($HS*?$HS*include.*Q$ppport\E)/$pp/m)
    || ($c =~ s/^($HS*#$HS*include.*XSUB.\w+.*?)/$1$pp/m)
    || ($c =~ s/^/$pp/);
} else {
    if ($file{has_inc_ppport}) {
        diag("No need to include "$ppport";");
        $file{changes} += ($c =~ s/^$HS*#include.*\Q$ppport\E.*?$LF//m);
    } else {
        if ($file{has_inc_ppport}) {
            diag("No need to include "$ppport";");
            $file{changes} += ($c =~ s/^$HS*#include.*\Q$ppport\E.*?$LF//m);
        }
    }
}

# put back in our C comments
my $ix;
my $cppc = 0;
my @ccom = @{$file{ccom}};
for $ix (0 .. $#ccom) {
    if (!$opt{cplusplus} && $ccom[$ix] =~ s!^//!!) {
        $cppc++;
        $file{changes} += $c =~ s/$rccs$ix$rcce/$ccom[$ix] $cce/;
    } else {
        $c =~ s/$rccs$ix$rcce/$ccom[$ix]/;
    }
}
if ($cppc) {
    my $s = $cppc != 1 ? 's' : '';
    warning("Uses $cppc C++ style comment$s, which is not portable");
}
my $s = $warnings != 1 ? 's' : '';
my $warn = $warnings ? " ($warnings warning$s)" : "
info("Analysis completed$warn");

if ($file{changes}) {
    if (exists $opt{copy}) {
        my $newfile = "$filename$opt{copy}";
        if (-e $newfile) {
            error("'$newfile' already exists, refusing to write copy of '$filename'";
        } else {
            local *F;
            if (open F, ">$newfile") {
                info("Writing copy of '$filename' with changes to '$newfile'";
                print F $c;
            }
        }
    } else {
        local *F;
        if (open F, ">$newfile") {
            info("Writing copy of '$filename' with changes to '$newfile'"
            print F $c;
        }
    }
}
close F;
}
else {
    error("Cannot open '$newfile' for writing: $!");
}
}
}
elsif (exists $opt{patch} || $opt{changes}) {
    if (exists $opt{patch}) {
        unless ($patch_opened) {
            if (open PATCH, ">$opt{patch}") {
                $patch_opened = 1;
            }
            else {
                error("Cannot open '$opt{patch}' for writing: $!");
                delete $opt{patch};
                $opt{changes} = 1;
                goto fallback;
            }
        }
        mydiff(*PATCH, $filename, $c);
    }
    else {
        fallback:
        info("Suggested changes:");
        mydiff(*STDOUT, $filename, $c);
    }
    else {
        my $s = $file{changes} == 1 ? '' : 's';
        info("$file{changes} potentially required change$s detected");
    }
}
else {
    info("Looks good");
}
}
}

close PATCH if $patch_opened;

exit 0;

sub try_use { eval "use @_;": return $@ eq "" }

sub mydiff {
    local *F = shift;

my($file, $str) = @_;  
my $diff;
if (exists $opt{diff}) {  
    $diff = run_diff($opt{diff}, $file, $str);
}

if ('!defined $diff and try_use('Text::Diff')) {  
    $diff = Text::Diff::diff($file, $str, { STYLE => 'Unified' });
    $diff = <<HEADER . $diff;
      --- $file
     +++ $file.patched
    HEADER
}

if ('!defined $diff) {  
   $diff = run_diff('diff -u', $file, $str);
}

if ('!defined $diff) {  
   $diff = run_diff('diff', $file, $str);
}

if ('!defined $diff) {  
   error("Cannot generate a diff. Please install Text::Diff or use --copy.");
   return;
}

print F $diff;

sub run_diff  
{
    my($prog, $file, $str) = @_;  
    my $tmp = 'dppptemp';
    my $suf = 'aaa';
    my $diff = '';
    local *F;

    while (-e "$tmp.$suf") { $suf++ }
    $tmp = "$tmp.$suf">

    if (open F, "$tmp") {
      print F $str;
      close F;

      if (open F, "$prog $file $tmp |") {
        while (<F>) {


s/Q$tmpl/E/file.patched/;
$diff .= $_.
}
close F;
unlink $tmp;
return $diff;
}

unlink $tmp;
}
else {
  error("Cannot open 'tmp' for writing: $!");
}
return undef;
}

sub rec_depend
{
  my($func, $seen) = @_; return () unless exists $depends{$func};
  $seen = {%{$seen||{}}}; return () if $seen->{$func}++;
  my %s;
grep !$s{$_}++, map { ($_, rec_depend($_, $seen)) } @{$depends{$func}}; @{$depends{$func}};
}

sub parse_version
{
  my $ver = shift;

  if ($ver =~ /\d+\.\d+\.\d+$/) {
    return ($1, $2, $3);
  }
  elsif ($ver !~ /^(?<!\d)\d+$/) { die "cannot parse version '$ver\n";
  }
  $ver =~ s/_//g;
  $ver =~ s/$/000000/;

  my($r,$v,$s) = $ver =~ /\d+\.\d+\.\d+$/;

  $v = int $v;
  $s = int $s;

  if ($r < 5 || ($r == 5 && $v < 6)) {
    if ($s % 10) {

die "cannot parse version \$ver\n";
}
}

return ($r, $v, $s);
}

sub format_version
{
my $ver = shift;

$ver =~ s/$/000000/;
my($r,$v,$s) = $ver =~ /\d+(?\d{3})(\d{3})/;

$v = int $v;
$s = int $s;

if ($r < 5 || ($r == 5 && $v < 6)) {
  if ($s % 10) {
    die "invalid version \$ver\n";
  }
  $s /= 10;

  $ver = sprintf "%d.%03d", $r, $v;
  $s > 0 and $ver .= sprintf "_%02d", $s;

  return $ver;
}

return sprintf "%d.%d.%d", $r, $v, $s;
}

sub info
{
$opt{quiet} and return;
print @_, \n;
}

sub diag
{
$opt{quiet} and return;
$opt{diag} and print @_, \n;
}

sub warning
{
$opt{quiet} and return;
print "*** ", @_, \n;
}
}
sub error
{
print "*** ERROR: ", @_, "\n";
}
my %given_hints;
my %given_warnings;
sub hint
{
$opt{quiet} and return;
my $func = shift;
my $rv = 0;
if (exists $warnings{$func} && !$given_warnings{$func}++) {
my $warn = $warnings{$func};
$warn =~ s!^!*** !mg;
print "*** WARNING: $func\n", $warn;
$rv++;
}
if ($opt{hints} && exists $hints{$func} && !$given_hints{$func}++) {
my $hint = $hints{$func};
$hint =~ s/^/ /mg;
print " --- hint for $func ---\n", $hint;
}
$rv;
}
sub usage
{
my($usage) = do { local(@ARGV,$/)=($0); <> } =~ /^=head\d$HS+SYNOPSIS\s*^(.*?)\s*^=/ms;
my %M = ( 'I' => '*' );
$usage =~ s/^\s*perl\s+\S+/$^X $0/;
$usage =~ s/([A-Z])<([^>]+)>/$M{$1}$2$M{$1}/g;
print <<ENDUSAGE;
Usage: $usage
See perldoc $0 for details.
ENDUSAGE
exit 2;
}
sub strip
{

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=head1 NAME

threads::shared - Perl extension for sharing data structures between threads

=head1 VERSION

This document describes threads::shared version 1.43

=head1 SYNOPSIS

use threads;
use threads::shared;

my $var :shared;
my %hsh :shared;
my @ary :shared;

my ($scalar, @array, %hash);
share($scalar);
share(@array);
share(%hash);

$var = $scalar_value;
$var = $shared_ref_value;
$var = shared_clone($non_shared_ref_value);
$var = shared_clone(
    {'foo' => [qw/foo bar baz/]});

$hsh{'foo'} = $scalar_value;
$hsh{'bar'} = $shared_ref_value;
$hsh{'baz'} = shared_clone($non_shared_ref_value);
$hsh{'quz'} = shared_clone([1..3]);

$ary[0] = $scalar_value;
$ary[1] = $shared_ref_value;
$ary[2] = shared_clone($non_shared_ref_value);
$ary[3] = shared_clone([ {}, [] ]);
my $lockvar :shared;
# condition var != lock var
cond_wait($var, $lockvar);
cond_timedwait($var, time()+30, $lockvar);

=head1 DESCRIPTION

By default, variables are private to each thread, and each newly created thread gets a private copy of each existing variable. This module allows you to share variables across different threads (and pseudo-forks on Win32). It is used together with the L<threads> module.

This module supports the sharing of the following data types only: scalars and scalar refs, arrays and array refs, and hashes and hash refs.

=head1 EXPORT

The following functions are exported by this module: C<share>, C<shared_clone>, C<is_shared>, C<cond_wait>, C<cond_timedwait>, C<cond_signal> and C<cond_broadcast>

Note that if this module is imported when L<threads> has not yet been loaded, then these functions all become no-ops. This makes it possible to write modules that will work in both threaded and non-threaded environments.

=head1 FUNCTIONS

=over 4

=item share VARIABLE

C<share> takes a variable and marks it as shared:

my ($scalar, @array, %hash);
share($scalar);
share(@array);
share(%hash);

C<share> will return the shared rvalue, but always as a reference.

Variables can also be marked as shared at compile time by using the C<shared> attribute:

my ($var, %hash, @array) :shared;

Shared variables can only store scalars, refs of shared variables, or refs of shared data (discussed in next section):
my ($var, %hash, @array) :shared;
my $bork;

# Storing scalars
$var = 1;
$hash{'foo'} = 'bar';
$array[0] = 1.5;

# Storing shared refs
$var = \%hash;
$hash{'ary'} = \@array;
$array[1] = \$var;

# The following are errors:
#   $var = \$bork;                    # ref of non-shared variable
#   $hash{'bork'} = [];               # non-shared array ref
#   push(@array, { 'x' => 1 });       # non-shared hash ref

=item shared_clone REF

C<shared_clone> takes a reference, and returns a shared version of its argument, performing a deep copy on any non-shared elements. Any shared elements in the argument are used as is (i.e., they are not cloned).

my $cpy = shared_clone({'foo' => [qw/foo bar baz/]})

Object status (i.e., the class an object is blessed into) is also cloned.

my $obj = {'foo' => [qw/foo bar baz/]};
bless($obj, 'Foo');
my $cpy = shared_clone($obj);
prient(ref($cpy), "<undef>");  # Outputs 'Foo'

For cloning empty array or hash refs, the following may also be used:

$var = &share([],);  # Same as $var = shared_clone([]);
$var = &share( );   # Same as $var = shared_clone( );

Not all Perl data types can be cloned (e.g., globs, code refs). By default, C<shared_clone> will L<croak|Carp> if it encounters such items. To change this behaviour to a warning, then set the following:

$threads::shared::clone_warn = 1;

In this case, C<undef> will be substituted for the item to be cloned. If set to zero:

$threads::shared::clone_warn = 0;
then the C<undef> substitution will be performed silently.

=item is_shared VARIABLE

C<is_shared> checks if the specified variable is shared or not. If shared, returns the variable's internal ID (similar to L<refaddr()>). Otherwise, returns C<undef>.

if (is_shared($var)) {
    print("$var is shared\n");
} else {
    print("$var is not shared\n");
}

When used on an element of an array or hash, C<is_shared> checks if the specified element belongs to a shared array or hash. (It does not check the contents of that element.)

my %hash :shared;
if (is_shared(%hash)) {
    print("%hash is shared\n");
}

$hash{'elem'} = 1;
if (is_shared($hash{'elem'})) {
    print("$hash{'elem'} is in a shared hash\n");
}

=item lock VARIABLE

C<lock> places a B<advisory> lock on a variable until the lock goes out of scope. If the variable is locked by another thread, the C<lock> call will block until it's available. Multiple calls to C<lock> by the same thread from within dynamically nested scopes are safe -- the variable will remain locked until the outermost lock on the variable goes out of scope.

C<lock> follows references exactly I<one> level:

my %hash :shared;
my $ref = %hash;
lock($ref);        # This is equivalent to lock(%hash)

Note that you cannot explicitly unlock a variable; you can only wait for the lock to go out of scope. This is most easily accomplished by locking the variable inside a block.

my $var :shared;
{  
    lock($var);
    # $var is locked from here to the end of the block
    ...
}
# $var is now unlocked

As locks are advisory, they do not prevent data access or modification by another thread that does not itself attempt to obtain a lock on the variable.

You cannot lock the individual elements of a container variable:

```perl
my %hash :shared;
$hash{'foo'} = 'bar';
#lock($hash{'foo'});          # Error
lock(%hash);                  # Works
```

If you need more fine-grained control over shared variable access, see L<Thread::Semaphore>.

=item cond_wait VARIABLE

=item cond_wait CONDVAR, LOCKVAR

The C<cond_wait> function takes a B<locked> variable as a parameter, unlocks the variable, and blocks until another thread does a C<cond_signal> or C<cond_broadcast> for that same locked variable. The variable that C<cond_wait> blocked on is re-locked after the C<cond_wait> is satisfied. If there are multiple threads C<cond_wait>ing on the same variable, all but one will re-block waiting to reacquire the lock on the variable. (So if you’re only using C<cond_wait> for synchronization, give up the lock as soon as possible).

The two actions of unlocking the variable and entering the blocked wait state are atomic, the two actions of exiting from the blocked wait state and re-locking the variable are not.

In its second form, C<cond_wait> takes a shared, B<unlocked> variable followed by a shared, B<locked> variable. The second variable is unlocked and thread execution suspended until another thread signals the first variable.

It is important to note that the variable can be notified even if no thread C<cond_signal> or C<cond_broadcast> on the variable. It is therefore important to check the value of the variable and go back to waiting if the requirement is not fulfilled. For example, to pause until a shared counter drops to zero:

```perl
{  lock($counter); cond_wait($counter) until $counter == 0; }
```

=item cond_timedwait VARIABLE, ABS_TIMEOUT
In its two-argument form, `cond_timedwait` takes a `locked` variable and an absolute timeout in `epoch` seconds (see `time()` in perlfunc for more) as parameters, unlocks the variable, and blocks until the timeout is reached or another thread signals the variable. A false value is returned if the timeout is reached, and a true value otherwise. In either case, the variable is re-locked upon return.

Like `cond_wait`, this function may take a shared, `locked` variable as an additional parameter; in this case the first parameter is an `unlocked` condition variable protected by a distinct lock variable.

Again like `cond_wait`, waking up and reacquiring the lock are not atomic, and you should always check your desired condition after this function returns. Since the timeout is an absolute value, however, it does not have to be recalculated with each pass:

```perl
lock($var);
my $abs = time() + 15;
until ($ok = desired_condition($var)) {
    last if !cond_timedwait($var, $abs);
}
# we got it if $ok, otherwise we timed out!
```

The `cond_signal` function takes a `locked` variable as a parameter and unblocks one thread that's `cond_wait`ing on that variable. If more than one thread is blocked in a `cond_wait` on that variable, only one (and which one is indeterminate) will be unblocked.

If there are no threads blocked in a `cond_wait` on the variable, the signal is discarded. By always locking before signaling, you can (with care), avoid signaling before another thread has entered `cond_wait()`.

`cond_signal` will normally generate a warning if you attempt to use it on an unlocked variable. On the rare occasions where doing this may be sensible, you can suppress the warning with:

```perl
{ no warnings 'threads'; cond_signal($foo); }
```

The `cond_broadcast` function works similarly to `cond_signal`. `cond_broadcast`, though, will unblock all the threads that are blocked in a `cond_wait` on the locked variable, rather than only one.
L<threads::shared> exports a version of L<bless/perlfunc/bless REF> that works on shared objects such that L<blessings> propagate across threads.

```perl
# Create a shared 'Foo' object
my $foo :shared = shared_clone({});
bless($foo, 'Foo');

# Create a shared 'Bar' object
my $bar :shared = shared_clone({});
bless($bar, 'Bar');

# Put 'bar' inside 'foo'
$foo->{'bar'} = $bar;

# Rebless the objects via a thread
threads->create(sub {
    # Rebless the outer object
    bless($foo, 'Yin');

    # Cannot directly rebless the inner object
    #bless($foo->{'bar'}, 'Yang');

    # Retrieve and rebless the inner object
    my $obj = $foo->{'bar'};
    bless($obj, 'Yang');
    $foo->{'bar'} = $obj;

})->join();

print(ref($foo),        "\n");  # Prints 'Yin'
print(ref($foo->{'bar'}), "\n");  # Prints 'Yang'
print(ref($bar),        "\n");   # Also prints 'Yang'
```

L<threads::shared> is designed to disable itself silently if threads are not available. This allows you to write modules and packages that can be used in both threaded and non-threaded applications.

If you want access to threads, you must C<use threads> before you C<use threads::shared>. L<threads> will emit a warning if you use it after L<threads::shared>.
BUGS AND LIMITATIONS

When C<share> is used on arrays, hashes, array refs or hash refs, any data they contain will be lost.

```perl
my @arr = qw(foo bar baz);
share(@arr);
# @arr is now empty (i.e., == ());

# Create a 'foo' object
my $foo = { 'data' => 99 };
bless($foo, 'foo');

# Share the object
share($foo);        # Contents are now wiped out
print("ERROR: $foo is empty\n")
   if (! exists($foo->{data}));
```

Therefore, populate such variables B<after> declaring them as shared. (Scalar and scalar refs are not affected by this problem.)

It is often not wise to share an object unless the class itself has been written to support sharing. For example, an object's destructor may get called multiple times, once for each thread's scope exit. Another danger is that the contents of hash-based objects will be lost due to the above mentioned limitation. See F<examples/class.pl> (in the CPAN distribution of this module) for how to create a class that supports object sharing.

Destructors may not be called on objects if those objects still exist at global destruction time. If the destructors must be called, make sure there are no circular references and that nothing is referencing the objects, before the program ends.

Does not support C<splice> on arrays. Does not support explicitly changing array lengths via $#array -- use C<push> and C<pop> instead.

Taking references to the elements of shared arrays and hashes does not autovivify the elements, and neither does slicing a shared array/hash over non-existent indices/keys autovivify the elements.

C<share()> allows you to C<< share($hashref->{key}) >> and C<< share($arrayref->{idx}) >> without giving any error message. But the C<< $hashref->{key} >> or C<< $arrayref->{idx} >> is B<not> shared, causing the error "lock can only be used on shared values" to occur when you attempt to C<< lock($hashref->{key}) >> or C<< lock($arrayref->{idx}) >> in another thread.

Using L<refaddr()> is unreliable for testing
whether or not two shared references are equivalent (e.g., when testing for circular references). Use L<is_shared()\|"is_shared VARIABLE">, instead:

use threads;
use threads::shared;
use Scalar::Util qw(refaddr);

# If ref is shared, use threads::shared's internal ID.
# Otherwise, use refaddr().
my $addr1 = is_shared($ref1) || refaddr($ref1);
my $addr2 = is_shared($ref2) || refaddr($ref2);

if ($addr1 == $addr2) {
  # The refs are equivalent
}

L<each()\|perlfunc/"each HASH"> does not work properly on shared references embedded in shared structures. For example:

my %foo :shared;
$foo{'bar'} = shared_clone({'a'=>'x', 'b'=>'y', 'c'=>'z'});

while (my ($key, $val) = each(%{$foo{'bar'}})) {
  ...
}

Either of the following will work instead:

my $ref = $foo{'bar'};
while (my ($key, $val) = each(%{$ref})) {
  ...
}

foreach my $key (keys(%{$foo{'bar'}})) {
  my $val = $foo{'bar'}{$key};
  ...
}

This module supports dual-valued variables created using L<dualvar() from Scalar::Util|Scalar::Util/"dualvar NUM, STRING">. However, while C<$!> acts like a dualvar, it is implemented as a tied SV. To propagate its value, use the follow construct, if needed:

my $errno :shared = dualvar($!, $!);

View existing bug reports at, and submit any new bugs, problems, patches, etc. to: L<http://rt.cpan.org/Public/Dist/Display.html?Name=threads-shared>
SEE ALSO

L<threads::shared> Discussion Forum on CPAN:
L<http://www.cpanforum.com/dist/threads-shared>

L<threads>, L<perlthrtut>

L<http://www.perl.com/pub/a/2002/06/11/threads.html> and

Perl threads mailing list:
L<http://lists.perl.org/list/tthreads.html>

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Documentation borrowed from the old Thread.pm.

CPAN version produced by Jerry D. Hedden E<lt>jhedden AT cpan DOT orgE<gt>.

LICENSE

threads::shared is released under the same license as Perl.

No license file was found, but licenses were detected in source scan.

/*    shared.xs
*    Copyright (c) 2001-2002, 2006 Larry Wall
*    You may distribute under the terms of either the GNU General Public License or the Artistic License, as specified in the README file.
*    "Hand any two wizards a piece of rope and they would instinctively pull in opposite directions."
*    --Sourcery
*    Contributed by Artur Bergman <sky AT crucially DOT net>
*    Pulled in the (an)other direction by Nick Ing-Simmons
*    <nick AT ing-simmons DOT org>
*    CPAN version produced by Jerry D. Hedden <jhedden AT cpan DOT org>
/*
 * Shared variables are implemented by a scheme similar to tieing.
 * Each thread has a proxy SV with attached magic -- "private SVs" --
 * which all point to a single SV in a separate shared interpreter
 * (PL_sharedsv_space) -- "shared SVs".
 * The shared SV holds the variable's true values, and its state is
 * copied between the shared and private SVs with the usual
 * mg_get()/mg_set() arrangement.
 * Aggregates (AVs and HVs) are implemented using tie magic, except that
 * the vtable used is one defined in this file rather than the standard one.
 * This means that where a tie function like FETCH is normally invoked by
 * the tie magic's mg_get() function, we completely bypass the calling of a
 * perl-level function, and directly call C-level code to handle it. On
 * the other hand, calls to functions like PUSH are done directly by code
 * in av.c, etc., which we can't bypass. So the best we can do is to provide
 * XS versions of these functions. We also have to attach a tie object,
 * blessed into the class threads::shared::tie, to keep the method-calling
 * code happy.
 * Access to aggregate elements is done the usual tied way by returning a
 * proxy PVLV element with attached element magic.
 * Pointers to the shared SV are squirrelled away in the mg->mg_ptr field
 * of magic (with mg_len == 0), and in the IV2PTR(SvIV(sv)) field of tied
 * object SVs. These pointers have to be hidden like this because they
 * cross interpreter boundaries, and we don't want sv_clear() and friends
 * following them.
 * The three basic shared types look like the following:
 *
 * -----------------
 * Shared scalar (my $s : shared):
 * SV = PVMG(0x7ba238) at 0x7387a8
 * FLAGS = (PADMY,GMG,SMG)
 * MAGIC = 0x824d88
 * MG_TYPE = PERL_MAGIC_shared_scalar(n)
 * MG_PTR = 0x810358 <<<< pointer to the shared SV
 *
 * -----------------
 * Shared aggregate (my @a : shared; my %h : shared):
 *
* SV = PVAV(0x7175d0) at 0x738708
* FLAGS = (PADMY,RMG)
* MAGIC = 0x824e48
* MG_TYPE = PERL_MAGIC_tied(P)
* MG_OBJ = 0x7136e0        <<<< ref to the tied object
* SV = RV(0x7136f0) at 0x7136e0
* RV = 0x738640
* SV = PVMG(0x7ba238) at 0x738640 <<<< the tied object
* FLAGS = (OBJECT,IOK,pIOK)
* IV = 8455000        <<<< pointer to the shared AV
* STASH = 0x80abf0 "threads::shared::tie"
* MG_PTR = 0x810358 ""        <<<< another pointer to the shared AV
* ARRAY = 0x0
*
* -----------------
*
* Aggregate element (my @a : shared; $a[0])
*
* SV = PVLV(0x77f628) at 0x713550
* FLAGS = (GMG,SMG,RMG,pIOK)
* MAGIC = 0x72bd58
* MG_TYPE = PERL_MAGIC_shared_scalar(n)
* MG_PTR = 0x8103c0 ""        <<<< pointer to the shared element
* MAGIC = 0x72bd18
* MG_TYPE = PERL_MAGIC_tiedelem(p)
* MG_OBJ = 0x7136e0        <<<< ref to the tied object
* SV = RV(0x7136f0) at 0x7136e0
* RV = 0x738660
* SV = PVMG(0x7ba278) at 0x738660 <<<< the tied object
* FLAGS = (OBJECT,IOK,pIOK)
* IV = 8455064        <<<< pointer to the shared AV
* STASH = 0x80ac30 "threads::shared::tie"
* TYPE = t
*
* Note that PERL_MAGIC_tiedelem(p) magic doesn't have a pointer to a
* shared SV in mg_ptr; instead this is used to store the hash key,
* if any, like normal tied elements. Note also that element SVs may have
* pointers to both the shared aggregate and the shared element.
*
* Userland locks:
*
* If a shared variable is used as a perl-level lock or condition
* variable, then PERL_MAGIC_ext magic is attached to the associated
* shared* SV, whose mg_ptr field points to a malloc'ed structure
* containing the necessary mutexes and condition variables.
*
* Nomenclature:
* In this file, any variable name prefixed with 's' (e.g., ssv, stmp or sobj) * usually represents a shared SV which corresponds to a private SV named * without the prefix (e.g., sv, tmp or obj).
*/

#define PERL_NO_GET_CONTEXT
#include "EXTERN.h"
#include "perl.h"
#include "XSUB.h"
ifdef HAS_PPPORT_H
    define NEED_sv_2pv_flags
    define NEED_vnewSVpvf
    define NEED_warner
    define NEED_newSVpvn_flags
    include "ppport.h"
    include "shared.h"
endif
define USE_ITHREADS

/* Magic signature(s) for mg_private to make PERL_MAGIC_ext magic safer */
define UL_MAGIC_SIG 0x554C /* UL = user lock */

/* The shared things need an interpreter to live in ...
*/
PerlInterpreter *PL_sharedsv_space; /* The shared sv space */
/* To access shared space we fake aTHX in this scope and thread's context */

/* Bug #24255: We include ENTER+SAVETMPS/FREETMPS+LEAVE with 
* SHARED_CONTEXT/CALLER_CONTEXT macros, so that any mortals, etc. created 
* while in the shared interpreter context don't languish */
define SHARED_CONTEXT
   \ STMT_START {
       PERL_SET_CONTEXT((aTHX = PL_sharedsv_space)); \ ENTER;
       SAVETMPS;
   } STMT_END

/* So we need a way to switch back to the caller's context... */
/* So we declare _another_ copy of the aTHX variable... */
define dTHXc PerlInterpreter *caller_perl = aTHX

/* ... and use it to switch back */
define CALLER_CONTEXT
   \ STMT_START {

typedef struct {
    perl_mutex          mutex;
    PerlInterpreter    *owner;
    I32                 locks;
    perl_cond           cond;
    #ifdef DEBUG_LOCKS
    char *              file;
    int                 line;
    #endif
} recursive_lock_t;

recursive_lock_t PL_sharedsv_lock; /* Mutex protecting the shared sv space */

void recursive_lock_init(pTHX_ recursive_lock_t *lock)
{
    Zero(lock,1,recursive_lock_t);
    MUTEX_INIT(&lock->mutex);
    COND_INIT(&lock->cond);
}

void recursive_lock_destroy(pTHX_ recursive_lock_t *lock)
{
    MUTEX_DESTROY(&lock->mutex);
    COND_DESTROY(&lock->cond);
}

void recursive_lock_release(pTHX_ recursive_lock_t *lock)
{
    MUTEX_LOCK(&lock->mutex);
    if (lock->owner == aTHX) {
        if (--lock->locks == 0) {
            lock->owner = NULL;
            COND_SIGNAL(&lock->cond);
        }
    }
    MUTEX_UNLOCK(&lock->mutex);
void recursive_lock_acquire(pTHX_ recursive_lock_t *lock, char *file, int line)
{
    PERL_UNUSED_ARG(file);
    PERL_UNUSED_ARG(line);
    assert(aTHX);
    MUTEX_LOCK(&lock->mutex);
    if (lock->owner == aTHX) {
        lock->locks++;
    } else {
        while (lock->owner) {
            #ifdef DEBUG_LOCKS
            Perl_warn(aTHX_ " %p waiting - owned by %p %s:%d\n",
                         aTHX, lock->owner, lock->file, lock->line);
            #endif
            COND_WAIT(&lock->cond,&lock->mutex);
        }
        lock->locks = 1;
        lock->owner = aTHX;
    }
    lock->file = file;
    lock->line = line;
    #ifdef DEBUG_LOCKS
    lock->file  = file;
    lock->line  = line;
    #endif
    MUTEX_UNLOCK(&lock->mutex);
    SAVEDESTROYER_X(recursive_lock_release,lock);
}

#define ENTER_LOCK
STMT_START { ENTER; recursive_lock_acquire(aTHX_ &PL_sharedsv_lock, __FILE__, __LINE__); } STMT_END

/* The unlocking is done automatically at scope exit */
#define LEAVE_LOCK LEAVE

/\* A common idiom is to acquire access and switch in ... */
#define SHARED_EDIT \ STMT_START { \ ENTER_LOCK; \ SHARED_CONTEXT; \ } STMT_END

/\* ... then switch out and release access. */
```c
#define SHARED_RELEASE
STMT_START {
   CALLER_CONTEXT;
   LEAVE_LOCK;
} STMT_END

/* User-level locks: 
This structure is attached (using ext magic) to any shared SV that 
is used by user-level locking or condition code */

typedef struct {
   recursive_lock_t lock;   /* For user-level locks */
   perl_cond        user_cond; /* For user-level conditions */
} user_lock;

/* Magic used for attaching user_lock structs to shared SVs 
The vtable used has just one entry - when the SV goes away 
we free the memory for the above. */

int sharedsv_userlock_free(pTHX_ SV *sv, MAGIC *mg)
{
   user_lock *ul = (user_lock *) mg->mg_ptr;
   PERL_UNUSED_ARG(sv);
   assert(aTHX == PL_sharedsv_space);
   if (ul) {
      recursive_lock_destroy(aTHX_ &ul->lock);
      COND_DESTROY(&ul->user_cond);
      PerlMemShared_free(ul);
      mg->mg_ptr = NULL;
   }
   return (0);
}

MGVTBL sharedsv_userlock_vtbl = {
0,      /* get */
0,      /* set */
0,      /* len */
0,      /* clear */
sharedsv_userlock_free,  /* free */
0,      /* copy */
0,      /* dup */
#ifdef MGf_LOCAL
0,      /* local */
```
/* Support for dual-valued variables */
#if defined SVf_IVisUV
    /* Define DUALVAR_FLAGS(sv) */
    ((SvPOK(sv))
     ? ((SvNOK(sv) || SvNOKp(sv)) ? SVf_NOK
     : ((SvIsUV(sv)) ? (SVf_IOK | SVf_IVisUV) 
     : ((SvIOK(sv) || SvIOKp(sv)) ? SVf_IOK : 0))) 
     : 0)
#else
    /* Define DUALVAR_FLAGS(sv) */
    ((SvPOK(sv))
     ? ((SvNOK(sv) || SvNOKp(sv)) ? SVf_NOK
     : ((SvIOK(sv) || SvIOKp(sv)) ? SVf_IOK : 0))
     : 0)
#endif

/* Access to shared things is heavily based on MAGIC */
/* - in mg.h/mg.c/sv.c sense */

/* In any thread that has access to a shared thing there is a "proxy"
   for it in its own space which has 'MAGIC' associated which accesses
   the shared thing. */

extern MGVTBL sharedsv_scalar_vtbl;  /* Scalars have this vtable */
extern MGVTBL sharedsv_array_vtbl;   /* Hashes and arrays have this
   - like 'tie' */
extern MGVTBL sharedsv_elem_vtbl;    /* Elements of hashes and arrays have
   this _AS WELL AS_ the scalar magic:
   The sharedsv_elem_vtbl associates the element with the array/hash and
   the sharedsv_scalar_vtbl associates it with the value */

/* Get shared aggregate SV pointed to by threads::shared::tie magic object */

#define SHAREDSV_FROM_OBJ(sv) ((SvROK(sv)) ? INT2PTR(SV *, SvIV(SvRV(sv))) : NULL)

/* Return the user_lock structure (if any) associated with a shared SV.
   * If create is true, create one if it doesn't exist */
STATIC user_lock *
S__get_userlock(pTHX_SV* ssv, bool create)
{
    MAGIC *mg;
    user_lock *ul = NULL;

    assert(ssv);
    /* XXX Redesign the storage of user locks so we don't need a global
     * lock to access them ????? DAPM */
    ENTER_LOCK;

    /* Version of mg_find that also checks the private signature */
    for (mg = SvMAGIC(ssv); mg; mg = mg->mg_moremagic) {
        if ((mg->mg_type == PERL_MAGIC_ext) &&
        (mg->mg_private == UL_MAGIC_SIG))
        {
            break;
        }
    }

    if (mg) {
        ul = (user_lock*)(mg->mg_ptr);
    } else if (create) {
        dTHXc;
        SHARED_CONTEXT;
        ul = (user_lock *) PerlMemShared_malloc(sizeof(user_lock));
        Zero(ul, 1, user_lock);
        /* Attach to shared SV using ext magic */
        mg = sv_magicext(ssv, NULL, PERL_MAGIC_ext, &sharedsv_userlock_vtbl,
                         (char *)ul, 0);
        mg->mg_private = UL_MAGIC_SIG; /* Set private signature */
        recursive_lock_init(aTHX_ &ul->lock);
        COND_INIT(&ul->user_cond);
        CALLER_CONTEXT;
    }
    LEAVE_LOCK;
    return (ul);
}

/* Given a private side SV tries to find if the SV has a shared backend,
 * by looking for the magic.
 */
SV *
Perl_sharedsv_find(pTHX_SV *sv)
{
    MAGIC *mg;
if (SvTYPE(sv) >= SVt_PVMG) {
    switch(SvTYPE(sv)) {
    case SVt_PVAV:
    case SVt_PVHV:
        if ((mg = mg_find(sv, PERL_MAGIC_tied))
            && mg->mg_virtual == &sharedsv_array_vtbl) {
            return ((SV *)mg->mg_ptr);
        }
        break;
        default:
            /* This should work for elements as well as they
             * have scalar magic as well as their element magic
             */
            if ((mg = mg_find(sv, PERL_MAGIC_shared_scalar))
                && mg->mg_virtual == &sharedsv_scalar_vtbl) {
                return ((SV *)mg->mg_ptr);
            }
            break;
    }
    /* Just for tidyness of API also handle tie objects */
    if (SvROK(sv) && sv_derived_from(sv, "threads::shared::tie")) {
        return (SHAREDSV_FROM_OBJ(sv));
    }
    return (NULL);
}

/* Associate a private SV with a shared SV by pointing the appropriate
 * magics at it.
 * Assumes lock is held.
 */
void
Perl_sharedsv_associate(pTHX_ SV *sv, SV *ssv)
{
    MAGIC *mg = 0;

    /* If we are asked for any private ops we need a thread */
    assert ( aTHX != PL_sharedsv_space );

    /* To avoid need for recursive locks require caller to hold lock */
    assert ( PL_sharedsv_lock.owner == aTHX );

    switch(SvTYPE(sv)) {
    case SVt_PVAV:
    case SVt_PVHV:
        if (!((mg = mg_find(sv, PERL_MAGIC_tied))
            || mg->mg_virtual != &sharedsv_array_vtbl)
|| (SV*) mg->mg_ptr != ssv)
{
    SV *obj = newSV(0);
    sv_setref_iv(obj, "threads::shared::tie", PTR2IV(ssv));
    if (mg) {
        sv_unmagic(sv, PERL_MAGIC_tied);
    }
    mg = sv_magicext(sv, obj, PERL_MAGIC_tied, &sharedsv_array_vtbl,
                     (char *)ssv, 0);
    mg->mg_flags |= (MGf_COPY|MGf_DUP);
    SvREFCNT_inc_void(ssv);
    SvREFCNT_dec(obj);
}
break;

default:
if ((SvTYPE(sv) < SVt_PVMG)
|| !(mg = mg_find(sv, PERL_MAGIC_shared_scalar))
|| mg->mg_virtual != &sharedsv_scalar_vtbl
|| (SV*) mg->mg_ptr != ssv)
{
    if (mg) {
        sv_unmagic(sv, PERL_MAGIC_shared_scalar);
    }
    mg = sv_magicext(sv, Nullsv, PERL_MAGIC_shared_scalar,
                     &sharedsv_scalar_vtbl, (char *)ssv, 0);
    mg->mg_flags |= (MGf_DUP
#ifdef MGf_LOCAL
|MGf_LOCAL
#endif
);
    SvREFCNT_inc_void(ssv);
}
break;
}
assert ( Perl_sharedsv_find(aTHX_ sv) == ssv );
}

/* Given a private SV, create and return an associated shared SV.
 * Assumes lock is held.
 */
STATIC SV *
S_sharedsv_new_shared(pTHX_ SV *sv)
{
    dTHXc;
    SV *ssv;
}
assert(PL_sharedsv_lock.owner == aTHX);
assert(aTHX != PL_sharedsv_space);

SHARE_CONTEXT:
sv = newSV(0);
SvREFCNT(ssv) = 0; /* Will be upped to 1 by Perl_sharedsv_associate */
sv_upgrade(ssv, SvTYPE(sv));
CALLER_CONTEXT;
Perl_sharedsv_associate(aTHX, sv, ssv);
return (ssv);
}

/* Given a shared SV, create and return an associated private SV.
* Assumes lock is held.
*/

STATIC SV *
S_sharedsv_new_private(pTHX_ SV *ssv)
{
    SV *sv;

    assert(PL_sharedsv_lock.owner == aTHX);
    assert(aTHX != PL_sharedsv_space);

    sv = newSV(0);
    sv_upgrade(sv, SvTYPE(ssv));
    Perl_sharedsv_associate(aTHX, sv, ssv);
    return (sv);
}

/* A threadsafe version of SvREFCNT_dec(ssv) */

STATIC void
S_sharedsv_dec(pTHX_ SV* ssv)
{
    if (! ssv)
        return;
    ENTER_LOCK;
    if (SvREFCNT(ssv) > 1) {
        /* No side effects, so can do it lightweight */
        SvREFCNT_dec(ssv);
    } else {
        dTHXc;
        SHARE_CONTEXT;
        SvREFCNT_dec(ssv);
        CALLER_CONTEXT;
    }
}
/* Implements Perl-level share() and :shared */

void
Perl_sharedsv_share(pTHX_ SV *sv)
{
    switch(SvTYPE(sv)) {
    case SVt_PVGV:
        Perl_croak(aTHX_ "Cannot share globs yet");
        break;
    case SVt_PVCV:
        Perl_croak(aTHX_ "Cannot share subs yet");
        break;
    default:
        ENTER_LOCK;
        (void) S_sharedsv_new_shared(aTHX_ sv);
        LEAVE_LOCK;
        SvSETMAGIC(sv);
        break;
    }
}

#ifdef WIN32
/* Number of milliseconds from 1/1/1601 to 1/1/1970 */
#define EPOCH_BIAS 11644473600000.

/* Returns relative time in milliseconds.  (Adapted from Time::HiRes.) */
STATIC DWORD
S_abs_2_rel_milli(double abs)
{
    double rel;

    /* Get current time (in units of 100 nanoseconds since 1/1/1601) */
    union {
        FILETIME ft;
        __int64  i64;  /*signed' to keep compilers happy*/
    } now;

    GetSystemTimeAsFileTime(&now.ft);

    /* Relative time in milliseconds */
rel = (abs * 1000.) - (((double)now.i64 / 10000.) - EPOCH_BIAS);
if (rel <= 0.0) {
    return (0);
}
return (DWORD)rel;

#else
# if defined(OS2)
# define ABS2RELMILLI(abs)             \
   do {                                \
      abs -= (double)time(NULL);      \
      if (abs > 0) { abs *= 1000; }   \
      else         { abs = 0;    }   \
    } while (0)
# endif /* OS2 */
#endif /* WIN32 */

/* Do OS-specific condition timed wait */

bool
Perl_sharedsv_cond_timedwait(perl_cond *cond, perl_mutex *mut, double abs)
{
#if defined(NETWARE) || defined(FAKE_THREADS) || defined(I_MACH_CTHREADS)
    Perl_croak_nocontext("cond_timedwait not supported on this platform");
#else
    # ifdef WIN32
    int got_it = 0;
    cond->waiters++:
    MUTEX_UNLOCK(mut);
    /* See comments in win32/win32thread.h COND_WAIT vis-a-vis race */
    switch (WaitForSingleObject(cond->sem, S_abs_2_rel_milli(abs))) {
        case WAIT_OBJECT_0:   got_it = 1; break;
        case WAIT_TIMEOUT:                break;
        default:
            /* WAIT_FAILED? WAIT_ABANDONED? others? */
            Perl_croak_nocontext("panic: cond_timedwait (%ld),GetLastError()");
            break;
    }
    MUTEX_LOCK(mut);
    cond->waiters--;
    return (got_it);
#else
    # ifdef OS2
    int rc, got_it = 0;
    STRLEN n_a;
    
    return (0);
#endif /* OS2 */
}
ABS2RELWILL(abs);

if ((rc = DosResetEventSem(*cond,&n_a)) && (rc != ERROR_ALREADY_RESET))
    Perl_rc = rc, croak_with_os2error("panic: cond_timedwait-reset");
MUTEX_UNLOCK(mut);
if (CheckOSError(DosWaitEventSem(*cond,abs))
    && (rc != ERROR_INTERRUPT))
    croak_with_os2error("panic: cond_timedwait");
if (rc == ERROR_INTERRUPT) errno = EINTR;
MUTEX_LOCK(mut);
return (got_it);
#    else /* Hope you're I_PTHREAD! */
struct timespec ts;
    int got_it = 0;

    ts.tv_sec = (long)abs;
    abs -= (NV)ts.tv_sec;
    ts.tv_nsec = (long)(abs * 1000000000.0);

switch (pthread_cond_timedwait(cond, mut, &ts)) {
    case 0:         got_it = 1; break;
    case ETIMEDOUT:             break;
#ifdef OEMVS
    case -1:
        if (errno == ETIMEDOUT || errno == EAGAIN)
            break;
#endif
    default:
        Perl_croak_nocontext("panic: cond_timedwait");
            break;
    }
return (got_it);
#    endif /* OS2 */
#    endif /* WIN32 */
#endif /* NETWARE || FAKE_THREADS || I_MACH_CTHREADS */
}

/* Given a thingy referenced by a shared RV, copy it's value to a private
 * RV, also copying the object status of the referent.
 * If the private side is already an appropriate RV->SV combination, keep
 * it if possible.
 */
STATIC void S_get_RV(pTHX_ SV *sv, SV *sobj) {
    SV *obj;
    if (! (SvROK(sv) &&
            ((obj = SvRV(sv))) &&
            
Open Source Used In Cisco Cloud Mailbox Defense -CMD (Project Raptor) April 2021 3021
(Perl_sharedsv_find(aTHX_obj) == sobj) &&
(SvTYPE(obj) == SvTYPE(sobj)))
{
/* Can’t reuse obj */
if (SvROK(sv)) {
    SvREFCNT_dec(SvRV(sv));
} else {
    assert(SvTYPE(sv) >= SVt_RV);
    sv_setsv_nomg(sv, &PL_sv_undef);
    SvROK_on(sv);
}
obj = S_sharedsv_new_private(aTHX_sobj);
SvRV_set(sv, obj);
}

if (SvOBJECT(obj)) {
/* Remove any old blessing */
SvREFCNT_dec(SvSTASH(obj));
SvOBJECT_off(obj);
}
if (SvOBJECT(sobj)) {
/* Add any new old blessing */
STRLEN len;
char* stash_ptr = SvPV((SV*) SvSTASH(sobj), len);
HV* stash = gv_stashpvn(stash_ptr, len, TRUE);
SvOBJECT_on(obj);
SvSTASH_set(obj, (HV*)SvREFCNT_inc(stash));
}
}
/* Every caller of S_get_RV needs this incantation (which cannot go inside
S_get_RV itself, as we do not want recursion beyond one level): */
#define get_RV(sv, sobj)                     
S_get_RV(aTHX_sv, sobj);             
/* Look ahead for refs of refs */      
if (SvROK(sobj)) {
    SvROK_on(SvRV(sv));
    S_get_RV(aTHX_SvRV(sv), SvRV(sobj));
}
/* ------------ PERL_MAGIC_shared_scalar(n) functions -------------- */
/* Get magic for PERL_MAGIC_shared_scalar(n) */

int
sharedsv_scalar_mg_get(pTHX_SV *sv, MAGIC *mg)
{
SV *ssv = (SV *) mg->mg_ptr;
assert(ssv);

ENTER_LOCK;
if (SvROK(ssv)) {
    get_RV(sv, SvRV(ssv));
} else {
    sv_setsv_nomg(sv, ssv);
}
LEAVE_LOCK;
return (0);

/* Copy the contents of a private SV to a shared SV.
 * Used by various mg_set()-type functions.
 * Assumes lock is held.
 */
void
sharedsv_scalar_store(pTHX_ SV *sv, SV *ssv)
{
    dTHXc;
    bool allowed = TRUE;

    assert(PL_sharedsv_lock.owner == aTHX);
    if (!PL_dirty && SvROK(ssv) && SvREFCNT(SvRV(ssv)) == 1) {
        SV *sv = sv_newmortal();
        sv_upgrade(sv, SVt_RV);
        get_RV(sv, SvRV(ssv));
    }
    if (SvROK(sv)) {
        SV *obj = SvRV(sv);
        SV *sobj = Perl_sharedsv_find(aTHX_ obj);
        if (sobj) {
            SHARED_CONTEXT;
            (void)SvUPGRADE(ssv, SVt_RV);
            sv_setsv_nomg(ssv, &PL_sv_undef);
            SvRV_set(ssv, SvREFCNT_inc(sobj));
            SvROK_on(ssv);
            if (SvOBJECT(sobj)) {
                /* Remove any old blessing */
                SvREFCNT_dec(SvSTASH(sobj));
                SvOBJECT_off(sobj);
            }
            if (SvOBJECT(obj)) {
                SV* fake_stash = newSVpv(HvNAME_get(SvSTASH(obj)),0);
                SvOBJECT_on(sobj);
                SvSTASH_set(sobj, (HV*)fake_stash);
            }
CALLER_CONTEXT;
} else {
    allowed = FALSE;
}
} else {
    SvTEMP_off(sv);
    SHARED_CONTEXT;
    sv_setsv_nomg(ssv, sv);
    if (SvOBJECT(ssv)) {
        /* Remove any old blessing */
        SvREFCNT_dec(SvSTASH(ssv));
        SvOBJECT_off(ssv);
    }
    if (SvOBJECT(sv)) {
        SV* fake_stash = newSVpv(HvNAME_get(SvSTASH(sv)),0);
        SvOBJECT_on(ssv);
        SvSTASH_set(ssv, (HV*)fake_stash);
    }
    CALLER_CONTEXT;
}
if (!allowed) {
    Perl_croak(aTHX_ "Invalid value for shared scalar");
}

/* Set magic for PERL_MAGIC_shared_scalar(n) */

int
sharedsv_scalar_mg_set(pTHX_ SV *sv, MAGIC *mg)
{
    SV *ssv = (SV*)(mg->mg_ptr);
    assert(ssv);
    ENTER_LOCK;
    if (SvTYPE(ssv) < SvTYPE(sv)) {
        dTHXc;
        SHARED_CONTEXT;
        sv_upgrade(ssv, SvTYPE(sv));
        CALLER_CONTEXT;
    }
    sharedsv_scalar_store(aTHX_ sv, ssv);
    LEAVE_LOCK;
    return (0);
}

/* Free magic for PERL_MAGIC_shared_scalar(n) */

int
sharedsv_scalar_mg_free(pTHX_ SV *sv, MAGIC *mg)
{
    PERL_UNUSED_ARG(sv);
    ENTER_LOCK;
    if (!PL_dirty
        && SvROK((SV *)mg->mg_ptr) && SvREFCNT(SvRV((SV *)mg->mg_ptr)) == 1) {
        SV *sv = sv_newmortal();
        sv_upgrade(sv, SVt_RV);
        get_RV(sv, SvRV((SV *)mg->mg_ptr));
    }
    S_sharedsv_dec(aTHX_ (SV*)mg->mg_ptr);
    LEAVE_LOCK;
    return (0);
}

/*
 * Called during cloning of PERL_MAGIC_shared_scalar(n) magic in new thread
 */
int
sharedsv_scalar_mg_dup(pTHX_ MAGIC *mg, CLONE_PARAMS *param)
{
    PERL_UNUSED_ARG(param);
    SvREFCNT_inc_void(mg->mg_ptr);
    return (0);
}

#ifdef MGf_LOCAL
/*
 * Called during local $shared
 */
int
sharedsv_scalar_mg_local(pTHX_ SV* nsv, MAGIC *mg)
{
    MAGIC *nmg;
    SV *ssv = (SV *) mg->mg_ptr;
    if (ssv) {
        ENTER_LOCK;
        SvREFCNT_inc_void(ssv);
        LEAVE_LOCK;
    }
    nmg = sv_magicext(nsv, mg->mg_obj, mg->mg_type, mg->mg_virtual,
                      mg->mg_ptr, mg->mg_len);
    nmg->mg_flags = mg->mg_flags;
    nmg->mg_private = mg->mg_private;

    return (0);
}
#endif
MGVTBL sharedsv_scalar_vtbl = {
    sharedsv_scalar_mg_get, /* get */
    sharedsv_scalar_mg_set, /* set */
    0,                       /* len */
    0,                       /* clear */
    sharedsv_scalar_mg_free, /* free */
    0,                       /* copy */
    sharedsv_scalar_mg_dup,  /* dup */
#ifdef MGf_LOCAL
    sharedsv_scalar_mg_local, /* local */
#endif
};

/* ------------ PERL_MAGIC_tiedelem(p) functions -------------- */

/* Get magic for PERL_MAGIC_tiedelem(p) */

int
sharedsv_elem_mg_FETCH(pTHX_ SV *sv, MAGIC *mg)
{
    dTHXc;
    SV *saggregate = SHAREDSV_FROM_OBJ(mg->mg_obj);
    SV** svp = NULL;

    ENTER_LOCK;
    if (saggregate) {  /* During global destruction, underlying
        aggregate may no longer exist */
        if (SvTYPE(saggregate) == SVt_PVAV) {
            assert (mg->mg_ptr == 0);
            SHARED_CONTEXT;
            svp = av_fetch((AV*) saggregate, mg->mg_len, 0);
        } else {
            char *key = mg->mg_ptr;
            I32 len = mg->mg_len;
            assert (mg->mg_ptr != 0);
            if (mg->mg_len == HEf_SVKEY) {
                STRLEN slen;
                key = SvPV((SV *)mg->mg_ptr, slen);
                len = slen;
                if (SvUTF8((SV *)mg->mg_ptr)) {
                    len = -len;
                }
            }
            SHARED_CONTEXT;
            svp = hv_fetch((HV*) saggregate, key, len, 0);
        }
    }
    CALLER_CONTEXT;
if (svp) {
    /* Exists in the array */
    if (SvROK(*svp)) {
        get_RV(sv, SvRV(*svp));
    } else {
        /* $ary->[elem] or $ary->{elem} is a scalar */
        Perl_sharedsv_associate(aTHX_ sv, *svp);
        sv_setsv(sv, *svp);
    }
} else {
    /* Not in the array */
    sv_setsv(sv, &PL_sv_undef);
}
LEAVE_LOCK;
return (0);

/* Set magic for PERL_MAGIC_tiedelem(p) */

int
sharedsv_elem_mg_STORE(pTHX_ SV *sv, MAGIC *mg)
{
    dTHXc;
    SV *saggregate = SHAREDSV_FROM_OBJ(mg->mg_obj);
    SV **svp;
    U32 dualvar_flags = DUALVAR_FLAGS(sv);

    /* Theory - SV itself is magically shared - and we have ordered the
     * magic such that by the time we get here it has been stored
     * to its shared counterpart
     */
    ENTER_LOCK;
    assert(saggregate);
    if (SvTYPE(saggregate) == SVt_PVAV) {
        assert ( mg->mg_ptr == 0 );
        SHARED_CONTEXT;
        svp = av_fetch((AV*) saggregate, mg->mg_len, 1);
    } else {
        char *key = mg->mg_ptr;
        I32 len = mg->mg_len;
        assert ( mg->mg_ptr != 0 );
        if (mg->mg_len == HEf_SVKEY) {
            STRLEN slen;
            key = SvPV((SV *)mg->mg_ptr, slen);
            len = slen;
            if (SvUTF8((SV *)mg->mg_ptr)) {
                len = -len;
            }
/* Clear magic for PERL_MAGIC_tiedelem(p) */

int sharedsv_elem_mg_DELETE(pTHX_ SV *sv, MAGIC *mg)
{
    dTHXc;
    MAGIC *shmg;
    SV *saggregate = SHAREDSV_FROM_OBJ(mg->mg_obj);

    /* Object may not exist during global destruction */
    if (! saggregate) {
        return (0);
    }

    ENTER_LOCK;
    sharedsv_elem_mg_FETCH(aTHX_ sv, mg);
    if (((shmg = mg_find(sv, PERL_MAGIC_shared_scalar)))
        sharedsv_scalar_mg_get(aTHX_ sv, shmg);
    if (SvTYPE(saggregate) == SVt_PVAV) {
        SHARED_CONTEXT;
        av_delete((AV*) saggregate, mg->mg_len, G_DISCARD);
    } else {
        char *key = mg->mg_ptr;
        I32 len = mg->mg_len;
        assert ( mg->mg_ptr != 0 );
        if (mg->mg_len == HEf_SVKEY) {
            STRLEN slen;
            key = SvPV((SV *)mg->mg_ptr, slen);
            len = slen;
            if (SvUTF8((SV *)mg->mg_ptr)) {
                len = -len;
            }
        }
    }
    SHARED_CONTEXT;
    (void) hv_delete((HV*) saggregate, key, len, G_DISCARD);
CALLER_CONTEXT;
LEAVE_LOCK;
return (0);

/* Called during cloning of PERL_MAGIC_tiedelem(p) magic in new
 * thread */

int
sharedsv_elem_mg_dup(pTHX_MAGIC *mg, CLONE_PARAMS *param)
{
    PERL_UNUSED_ARG(param);
    SvREFCNT_inc_void(SHAREDSV_FROM_OBJ(mg->mg_obj));
    assert(mg->mg_flags & MGf_DUP);
    return (0);
}

MGVTBL sharedsv_elem_vtbl = {
    sharedsv_elem_mg_FETCH,    /* get */
    sharedsv_elem_mg_STORE,    /* set */
    0,                         /* len */
    sharedsv_elem_mg_DELETE,   /* clear */
    0,                         /* free */
    0,                         /* copy */
    sharedsv_elem_mg_dup,      /* dup */
#ifdef MGf_LOCAL
    0,                         /* local */
#endif
};

/* ----------- PERL_MAGIC_tied(P) functions ----------- */

/* Len magic for PERL_MAGIC_tied(P) */

U32
sharedsv_array_mg_FETCHSIZE(pTHX_SV *sv, MAGIC *mg)
{
    dTHXc;
    SV *ssv = (SV *) mg->mg_ptr;
    U32 val;
    PERL_UNUSED_ARG(sv);
    SHARED_EDIT;
    if (SvTYPE(ssv) == SVt_PVAV) {
        val = av_len((AV*) ssv);
    } else {
        /* Not actually defined by tie API but ... */
        val = HvUSEDKEYS((HV*) ssv);
    }
/* Clear magic for PERL_MAGIC_tied(P) */

int
sharedsv_array_mg_CLEAR(pTHX_ SV *sv, MAGIC *mg)
{
    dTHXc;
    SV *ssv = (SV *) mg->mg_ptr;
    const bool isav = SvTYPE(ssv) == SVt_PVAV;
    PERL_UNUSED_ARG(sv);
    SHARED_EDIT;
    if (!PL_dirty) {
        SV **svp = isav ? AvARRAY((AV *)ssv) : NULL;
        I32 items = isav ? AvFILLp((AV *)ssv) + 1 : 0;
        HE *iter;
        if (!isav) hv_iterinit((HV *)ssv);
        while (isav ? items-- : !(iter = hv_iternext((HV *)ssv))) {
            SV *sv = isav ? *svp++ : HeVAL(iter);
            if (!sv) continue;
            if ( (SvOBJECT(sv) || (SvROK(sv) && (sv = SvRV(sv))))
                && SvREFCNT(sv) == 1 ) {
                SV *tmp = Perl_sv_newmortal(caller_perl);
                PERL_SET_CONTEXT((aTHX = caller_perl));
                sv_upgrade(tmp, SVt_RV);
                get_RV(tmp, sv);
                PERL_SET_CONTEXT((aTHX = PL_sharedsv_space));
            }
        }
    }
    if (isav) av_clear((AV*) ssv);
    else      hv_clear((HV*) ssv);
    SHARED_RELEASE;
    return (0);
}

/* Free magic for PERL_MAGIC_tied(P) */

int
sharedsv_array_mg_free(pTHX_ SV *sv, MAGIC *mg)
{
    PERL_UNUSED_ARG(sv);
    S_sharedsv_dec(aTHX_ (SV*)mg->mg_ptr);
    return (0);
}
/*
 * Copy magic for PERL_MAGIC_tied(P)
 * This is called when perl is about to access an element of
 * the array -
 */
#if PERL_VERSION >= 11
int sharedsv_array_mg_copy(pTHX_ SV *sv, MAGIC* mg,
   SV *nsv, const char *name, I32 namlen)
#else
int sharedsv_array_mg_copy(pTHX_ SV *sv, MAGIC* mg,
   SV *nsv, const char *name, int namlen)
#endif
{
   MAGIC *nmg = sv_magicext(nsv,mg->mg_obj,
      toLOWER(mg->mg_type),&sharedsv_elem_vtbl,
      name, namlen);
   PERL_UNUSED_ARG(sv);
   nmg->mg_flags |= MGf_DUP;
   return (1);
}

/* Called during cloning of PERL_MAGIC_tied(P) magic in new thread */

int sharedsv_array_mg_dup(pTHX_ MAGIC *mg, CLONE_PARAMS *param)
{
   PERL_UNUSED_ARG(param);
   SvREFCNT_inc_void((SV*)mg->mg_ptr);
   assert(mg->mg_flags & MGf_DUP);
   return (0);
}

MGVTBL sharedsv_array_vtbl = {
  0, /* get */
  0, /* set */
  sharedsv_array_mg_FETCHSIZE, /* len */
  sharedsv_array_mg_CLEAR, /* clear */
  sharedsv_array_mg_free, /* free */
  sharedsv_array_mg_copy, /* copy */
  sharedsv_array_mg_dup, /* dup */
#ifdef MGf_LOCAL
  0, /* local */
#endif
};
/* Recursively unlocks a shared sv. */

void
Perl_sharedsv_unlock(pTHX_ SV *ssv)
{
    user_lock *ul = S_get_userlock(aTHX_ ssv, 0);
    assert(ul);
    recursive_lock_release(aTHX_ &ul->lock);
}

/* Recursive locks on a sharedsv.
* Locks are dynamically scoped at the level of the first lock.
*/
void
Perl_sharedsv_lock(pTHX_ SV *ssv)
{
    user_lock *ul;
    if (! ssv)
        return;
    ul = S_get_userlock(aTHX_ ssv, 1);
    recursive_lock_acquire(aTHX_ &ul->lock, __FILE__, __LINE__);
}

/* Handles calls from lock() builtin via PL_lockhook */
void
Perl_sharedsv_locksv(pTHX_ SV *sv)
{
    SV *ssv;

    if (SvROK(sv))
        sv = SvRV(sv);
    ssv = Perl_sharedsv_find(aTHX_ sv);
    if (!ssv)
        croak("lock can only be used on shared values");
    Perl_sharedsv_lock(aTHX_ ssv);
}

/* Can a shared object be destroyed?
* True if not a shared,
* or if destroying last proxy on a shared object
*/
#ifdef PL_destroyhook
bool
Perl_shared_object_destroy(pTHX_ SV *sv)
```c
SV *ssv;

if (SvROK(sv))
    sv = SvRV(sv);
ssv = Perl_sharedsv_find(aTHX_ sv);
return (!ssv || (SvREFCNT(ssv) <= 1));
}
#endif

/* veto signal dispatch if we have the lock */

#ifdef PL_signalhook

STATIC despatch_signals_proc_t prev_signal_hook = NULL;

STATIC void
S_shared_signal_hook(pTHX) {
    int us;
    MUTEX_LOCK(&PL_sharedsv_lock.mutex);
    us = (PL_sharedsv_lock.owner == aTHX);
    MUTEX_UNLOCK(&PL_sharedsv_lock.mutex);
    if (us)
        return; /* try again later */
    prev_signal_hook(aTHX);
}
#endif

/* Saves a space for keeping SVs wider than an interpreter. */

void
Perl_sharedsv_init(pTHX)
{
    dTHXc;
    /* This pair leaves us in shared context ... */
    PL_sharedsv_space = perl_alloc();
    perl_construct(PL_sharedsv_space);
    LEAVE; /* This balances the ENTER at the end of perl_construct. */
    PERL_SET_CONTEXT((aTHX = caller_perl));
    recursive_lock_init(aTHX_ &PL_sharedsv_lock);
    PL_lockhook = &Perl_sharedsv_locksv;
    PL_sharehook = &Perl_sharedsv_share;
    #ifdef PL_destroyhook
    PL_destroyhook = &Perl_shared_object_destroy;
    #endif
    #ifdef PL_signalhook
    if (!prev_signal_hook) {
        prev_signal_hook = PL_signalhook;
    }
```
PL_signalhook = &S_shared_signal_hook;
}
#endif
}
#endif /* USE_ITHREADS */

MODULE = threads::shared PACKAGE = threads::shared::tie

PROTOTYPES: DISABLE

#ifdef USE_ITHREADS

void
PUSH(SV *obj, ...)
CODE:
dTHXc;
SV *sobj = SHAREDSV_FROM_OBJ(obj);
int ii;
for (ii = 1; ii < items; ii++) {
    SV* tmp = newSVsv(ST(ii));
    SV *stmp;
    U32 dualvar_flags = DUALVAR_FLAGS(tmp);
    ENTER_LOCK;
    stmp = S_sharedsv_new_shared(aTHX_ tmp);
    sharedsv_scalar_store(aTHX_tmp, stmp);
    SvFLAGS(stmp) |= dualvar_flags;
    SHARED_CONTEXT;
    av_push((AV*) sobj, stmp);
    SvREFCNT_inc_void(stmp);
    SHARED_RELEASE;
    SvREFCNT_dec(tmp);
}

void
UNSHIFT(SV *obj, ...)
CODE:
dTHXc;
SV *sobj = SHAREDSV_FROM_OBJ(obj);
int ii;
ENTER_LOCK;
SHARED_CONTEXT;
av_unshift((AV*) obj, items - 1);
CALLER_CONTEXT;
for (ii = 1; ii < items; ii++) {
    SV *tmp = newSVsv(ST(ii));
    U32 dualvar_flags = DUALVAR_FLAGS(tmp);
SV *stmp = S_sharedsv_new_shared(aTHX_tmp);
sharedsv_scalar_store(aTHX_tmp, stmp);
SHARED_CONTEXT;
SvFLAGS(stmp) |= dualvar_flags;
av_store((AV*) obj, ii - 1, stmp);
SvREFCNT_inc_void(stmp);
CALLER_CONTEXT;
SvREFCNT_dec(tmp);
}
LEAVE_LOCK;

void
POP(SV *obj)
CODE:
dTHXc;
SV *sobj = SHAREDSV_FROM_OBJ(obj);
SV* ssv;
ENTER_LOCK;
SHARED_CONTEXT;
ssv = av_pop((AV*)sobj);
CALLER_CONTEXT;
ST(0) = sv_newmortal();
Perl_sharedsv_associate(aTHX_ST(0), ssv);
SvREFCNT_dec(ssv);
LEAVE_LOCK;
/* XSRETURN(1); - implied */

void
SHIFT(SV *obj)
CODE:
dTHXc;
SV *sobj = SHAREDSV_FROM_OBJ(obj);
SV* ssv;
ENTER_LOCK;
SHARED_CONTEXT;
ssv = av_shift((AV*)sobj);
CALLER_CONTEXT;
ST(0) = sv_newmortal();
Perl_sharedsv_associate(aTHX_ST(0), ssv);
SvREFCNT_dec(ssv);
LEAVE_LOCK;
/* XSRETURN(1); - implied */

void
EXTEND(SV *obj, IV count)
CODE:

dTHXc;
SV *sobj = SHAREDSV_FROM_OBJ(obj);
SHARED_EDIT;
av_extend((AV*)sobj, count);
SHARED_RELEASE;

void
STORESIZE(SV *obj, IV count)
CODE:

dTHXc;
SV *sobj = SHAREDSV_FROM_OBJ(obj);
SHARED_EDIT;
av_fill((AV*) sobj, count);
SHARED_RELEASE;

void
EXISTS(SV *obj, SV *index)
CODE:

dTHXc;
SV *sobj = SHAREDSV_FROM_OBJ(obj);
bool exists;
if (SvTYPE(sobj) == SVt_PVAV) {
    SHARED_EDIT;
    exists = av_exists((AV*) sobj, SvIV(index));
} else {
    I32 len;
    STRLEN slen;
    char *key = SvPVutf8(index, slen);
    len = slen;
    if (SvUTF8(index)) {
        len = -len;
    }
    SHARED_EDIT;
    exists = hv_exists((HV*) sobj, key, len);
}
SHARED_RELEASE;
ST(0) = (exists) ? &PL_sv_yes : &PL_sv_no;
/* XSRETURN(1); - implied */

void
FIRSTKEY(SV *obj)
CODE:

dTHXc;
SV *sobj = SHAREDSV_FROM_OBJ(obj);
char* key = NULL;
I32 len = 0;
HE* entry;
ENTER_LOCK;
SHARED_CONTEXT;
hv_iterinit((HV*) sobj);
entry = hv_iternext((HV*) sobj);
if (entry) {
   I32 utf8 = HeKUTF8(entry);
   key = hv_iterkey(entry,&len);
   CALLER_CONTEXT;
   ST(0) = newSVpvn_flags(key, len, SVs_TEMP | (utf8 ? SVf_UTF8 : 0));
} else {
   CALLER_CONTEXT;
   ST(0) = &PL_sv_undef;
}
LEAVE_LOCK;
/* XSRETURN(1); - implied */

void
NEXTKEY(SV *obj, SV *oldkey)
CODE:
   dTHXc;
   SV *sobj = SHAREDSV_FROM_OBJ(obj);
   char* key = NULL;
   I32 len = 0;
   HE* entry;

   PERL_UNUSED_VAR(oldkey);

   ENTER_LOCK;
   SHARED_CONTEXT;
   entry = hv_iternext((HV*) sobj);
   if (entry) {
      I32 utf8 = HeKUTF8(entry);
      key = hv_iterkey(entry,&len);
      CALLER_CONTEXT;
      ST(0) = newSVpvn_flags(key, len, SVs_TEMP | (utf8 ? SVf_UTF8 : 0));
   } else {
      CALLER_CONTEXT;
      ST(0) = &PL_sv_undef;
   }
   LEAVE_LOCK;
   /* XSRETURN(1); - implied */
void _id(SV *myref)
PROTOTYPE: |$@%]
PREINIT:
   SV *ssv;
CODE:
   myref = SvRV(myref);
   if (SvMAGICAL(myref))
      mg_get(myref);
   if (SvROK(myref))
      myref = SvRV(myref);
   ssv = Perl_sharedsv_find(aTHX_ myref);
   if (! ssv)
      XSRETURN_UNDEF;
   ST(0) = sv_2mortal(newSVuv(PTR2UV(ssv)));
/* XSRETURN(1); - implied */

void _refcnt(SV *myref)
PROTOTYPE: |$@%]
PREINIT:
   SV *ssv;
CODE:
   myref = SvRV(myref);
   if (SvROK(myref))
      myref = SvRV(myref);
   ssv = Perl_sharedsv_find(aTHX_ myref);
   if (! ssv) {
      if (ckWARN(WARN_THREADS)) {
         Perl_warner(aTHX_ packWARN(WARN_THREADS),
            "%" SVf " is not shared", ST(0));
      }
      XSRETURN_UNDEF;
   }
   ST(0) = sv_2mortal(newSViv(SvREFCNT(ssv)));
/* XSRETURN(1); - implied */

void share(SV *myref)
PROTOTYPE: |$@%]
CODE:
   if (! SvROK(myref))
      Perl_croak(aTHX_ "Argument to share needs to be passed as ref");
myref = SvRV(myref);
if (SvROK(myref))
    myref = SvRV(myref);
Perl_sharedsv_share(aTHX_ myref);
ST(0) = sv_2mortal(newRV_inc(myref));
/* XSRETURN(1); - implied */

void
cond_wait(SV *ref_cond, SV *ref_lock = 0)
PROTOTYPE: \[$@%];\[$@%]
PREINIT:
    SV *ssv;
    perl_cond* user_condition;
    int locks;
    user_lock *ul;
CODE:
    if (!SvROK(ref_cond))
        Perl_croak(aTHX_ "Argument to cond_wait needs to be passed as ref");
    ref_cond = SvRV(ref_cond);
    if (SvROK(ref_cond))
        ref_cond = SvRV(ref_cond);
    ssv = Perl_sharedsv_find(aTHX_ ref_cond);
    if (! ssv)
        Perl_croak(aTHX_ "cond_wait can only be used on shared values");
    ul = S_get_userlock(aTHX_ ssv, 1);
    user_condition = &ul->user_condition;
    if (ref_lock && (ref_cond != ref_lock)) {
        if (!SvROK(ref_lock))
            Perl_croak(aTHX_ "cond_wait lock needs to be passed as ref");
        ref_lock = SvRV(ref_lock);
        if (SvROK(ref_lock)) ref_lock = SvRV(ref_lock);
        ssv = Perl_sharedsv_find(aTHX_ ref_lock);
        if (! ssv)
            Perl_croak(aTHX_ "cond_wait lock must be a shared value");
        ul = S_get_userlock(aTHX_ ssv, 1);
    }
    if (ul->lock.owner != aTHX)
        croak("You need a lock before you can cond_wait");
/* Stealing the members of the lock object worries me - NI-S */
MUTEX_LOCK(&ul->lock.mutex);
ul->lock.owner = NULL;
locks = ul->lock.locks;
ul->lock.locks = 0;
/* Since we are releasing the lock here, we need to tell other
COND_SIGNAL(&ul->lock.cond);
COND_WAIT(user_condition, &ul->lock.mutex);
while (ul->lock.owner != NULL) {
    /* OK -- must reacquire the lock */
    COND_WAIT(&ul->lock.cond, &ul->lock.mutex);
}
ul->lock.owner = aTHX;
ul->lock.locks = locks;
MUTEX_UNLOCK(&ul->lock.mutex);

int
cond_timedwait(SV *ref_cond, double abs, SV *ref_lock = 0)
PROTOTYPE: [$@%]$;[$@%]
PREINIT:
SV *ssv;
perl_cond* user_condition;
int locks;
user_lock *ul;
CODE:
if (! SvROK(ref_cond))
    Perl_croak(aTHX_ "Argument to cond_timedwait needs to be passed as ref");
ref_cond = SvRV(ref_cond);
if (SvROK(ref_cond))
    ref_cond = SvRV(ref_cond);
ssv = Perl_sharedsv_find(aTHX_ ref_cond);
if (! ssv)
    Perl_croak(aTHX_ "cond_timedwait can only be used on shared values");
ul = S_get_userlock(aTHX_ ssv, 1);
user_condition = &ul->user_cond;
if (ref_lock && (ref_cond != ref_lock)) {
    if (! SvROK(ref_lock))
        Perl_croak(aTHX_ "cond_timedwait lock needs to be passed as ref");
    ref_lock = SvRV(ref_lock);
    if (SvROK(ref_lock)) ref_lock = SvRV(ref_lock);
    ssv = Perl_sharedsv_find(aTHX_ ref_lock);
    if (! ssv)
        Perl_croak(aTHX_ "cond_timedwait lock must be a shared value");
    ul = S_get_userlock(aTHX_ ssv, 1);
}
if (ul->lock.owner != aTHX)
    Perl_croak(aTHX_ "You need a lock before you can cond_wait");

MUTEX_LOCK(&ul->lock.mutex);
ul->lock.owner = NULL;
locks = ul->lock.locks;
ul->lock.locks = 0;
/* Since we are releasing the lock here, we need to tell other
 * people that it is ok to go ahead and use it */
COND_SIGNAL(&ul->lock.cond);
RETVAL = Perl_sharedsv_cond_timedwait(user_condition, &ul->lock.mutex, abs);
while (ul->lock.owner != NULL) {
    /* OK -- must reacquire the lock... */
    COND_WAIT(&ul->lock.cond, &ul->lock.mutex);
}
ul->lock.owner = aTHX;
ul->lock.locks = locks;
MUTEX_UNLOCK(&ul->lock.mutex);
if (RETVAL == 0)
    XSRETURN_UNDEF;
OUTPUT:
    RETVAL

void
cond_signal(SV *myref)
PROTOTYPE: \[\$@%\]
PREINIT:
    SV *ssv;
    user_lock *ul;
CODE:
    if (! SvROK(myref))
        Perl_croak(aTHX_ "Argument to cond_signal needs to be passed as ref");
    myref = SvRV(myref);
    if (SvROK(myref))
        myref = SvRV(myref);
    ssv = Perl_sharedsv_find(aTHX_ myref);
    if (! ssv)
        Perl_croak(aTHX_ "cond_signal can only be used on shared values");
    ul = S_get_userlock(aTHX_ ssv, 1);
    if (ckWARN(WARN_THREADS) && ul->lock.owner != aTHX) {
        Perl_warner(aTHX_ packWARN(WARN_THREADS),
            "cond_signal() called on unlocked variable");
    }
    COND_SIGNAL(&ul->user_cond);

void
cond_broadcast(SV *myref)
PROTOTYPE: \[\$@%\]
PREINIT:
    SV *ssv;
    user_lock *ul;
CODE:
if (! SvROK(myref))
    Perl_croak(aTHX_ "Argument to cond_broadcast needs to be passed as ref");
myref = SvRV(myref);
if (SvROK(myref))
    myref = SvRV(myref);
ssv = Perl_sharedsv_find(aTHX_ myref);
if (! ssv)
    Perl_croak(aTHX_ "cond_broadcast can only be used on shared values");
ul = S_get_userlock(aTHX_ ssv, 1);
if (ckWARN(WARN_THREADS) && ul->lock.owner != aTHX) {
    Perl_warner(aTHX_ packWARN(WARN_THREADS),
        "cond_broadcast() called on unlocked variable");
}
COND_BROADCAST(&ul->user_cond);

void
bless(SV* myref, ...)
PROTOTYPE: $;$
PREINIT:
    HV* stash;
    SV *ssv;
CODE:
if (items == 1) {
    stash = CopSTASH(PL_curcop);
} else {
    SV* classname = ST(1);
    STRLEN len;
    char *ptr;
    if (classname &&
        ! SvGMAGICAL(classname) &&
        ! SvAMAGIC(classname) &&
        SvROK(classname))
    {
        Perl_croak(aTHX_ "Attempt to bless into a reference");
    }
    ptr = SvPV(classname, len);
    if (ckWARN(WARN_MISC) && len == 0) {
        Perl_warner(aTHX_ packWARN(WARN_MISC),
            "Explicit blessing to ’′ (assuming package main)′");
    }
    stash = gv_stashpvn(ptr, len, TRUE);
}
SvREFCNT_inc_void(myref);
(void)sv_bless(myref, stash);
ST(0) = sv_2mortal(myref);
ssv = Perl_sharedsv_find(aTHX_, myref);
if (ssv) {
    dTHXc;
    ENTER_LOCK;
    SHARED_CONTEXT;
    {
        SV* fake_stash = newSVpv(HvNAME_get(stash), 0);
        (void)sv_bless(ssv, (HV*)fake_stash);
    }
    CALLER_CONTEXT;
    LEAVE_LOCK;
}
/* XSRETURN(1); - implied */
#endif /* USE_ITHREADS */

BOOT:
{
    #ifdef USE_ITHREADS
        Perl_sharedsv_init(aTHX);
    #endif /* USE_ITHREADS */
}

Found in path(s):
  */opt/cola/permits/1150898438_1634082378.42/0/perl-threads-shared-1.43-6.amzn2.0.2.src.rpm-cosi-expand-archive-xa0PhQ3z/threads-shared-1.43.tar.gz-cosi-expand-archive-D1jKl0Un/threads-shared-1.43/shared.xs

1.299 cracklib 2.9.0-11.amzn2.0.2
1.299.1 Available under license :

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EFFECTIVE OCT 2008, LICENSE IS BEING CHANGED TO LGPL-2.1 (though not reflected in released code until Nov 2009 - slow release cycle...)

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Discussion thread from mailing list archive, with approval from everyone actively involved or holding original licensing rights included.

[Cracklib-devel] cracklib license
From: Mike Frysinger <vapier@ge...> - 2007-10-02 01:16

Attachments: Message as HTML

looks like 2.8.11 is out and marked as "GPL-2" ... releasing libraries unde=r=20
GPL-2 is not desirable at all ... this is why the LGPL-2.1 exists=20
=2Dmike

Re: [Cracklib-devel] cracklib license
From: Neulinger, Nathan <nneul@um...> - 2007-10-02 01:18

I understand that, and you're welcome to bring it up with Alec directly and see if he wants to relicense his code as LGPL... but at this point, it was enough to just get it consistent and documented as to what it was released under. This wasn't actually a license change, just a clarification of the licensing that was already in place.=20

-- Nathan
=20

Nathan Neulinger EMai: nneul@um...
> -----Original Message-----
> From: cracklib-devel-bounces@li...
> [mailto:cracklib-devel-bounces@li...] On Behalf Of
> Mike Frysinger
> Sent: Monday, October 01, 2007 8:15 PM
> To: cracklib-devel@li...
> Subject: [Cracklib-devel] cracklib license

> looks like 2.8.11 is out and marked as "GPL-2" ... releasing
> libraries under
> GPL-2 is not desirable at all ... this is why the LGPL-2.1 exists
> -mike

Re: [Cracklib-devel] cracklib license
From: Mike Frysinger <vapier@ge...> - 2007-10-02 01:33

Attachments: Message as HTML
On Monday 01 October 2007, Neulinger, Nathan wrote:
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> released under. This wasn't actually a license change, just a
> clarification of the licensing that was already in place.

the original license (before moving to sourceforge -- aka, 2.7) was not=20
GPL-2 ... it was a modified artistic license ... i didnt notice the license=
=20
change until it was mentioned in the latest notes.

unlike the old license, GPL-2 prevents people from using cracklib unless th=
eir=20
applications are also GPL-2 which imo is just wrong. it isnt the place of =
a=20
library to dictact to application writes what license they should be using.=
=20
thus LGPL-2.1 enters to fill this void.
=2Dmike

Re: [Cracklib-devel] cracklib license
From: Neulinger, Nathan <nneul@um...> - 2007-10-02 01:46
Seems like the ideal thing here would be for you and the other distro
maintainers to get together with Alec in a conversation and come to a
decision as to what licensing scheme y'all want. I haven't really done
much other than cleaning up the packaging and patches and a small bit of additional code, so whatever licensing y'all come up with is fine by me.

-- Nathan

--------------------------------------------------------------------------------
Nathan Neulinger EMail: nneul@um...
University of Missouri - Rolla Phone: (573) 341-6679
UMR Information Technology Fax: (573) 341-4216

> -----Original Message-----
> From: cracklib-devel-bounces@li...
> [mailto:cracklib-devel-bounces@li...] On Behalf Of
> Mike Frysinger
> Sent: Monday, October 01, 2007 8:33 PM
> To: Neulinger, Nathan
> Cc: cracklib-devel@li...; Alec Muffett
> Subject: Re: [Cracklib-devel] cracklib license
>
> On Monday 01 October 2007, Neulinger, Nathan wrote:
> > I understand that, and you're welcome to bring it up with Alec
directly
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place of a
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> thus LGPL-2.1 enters to fill this void.
>-mike

Re: [Cracklib-devel] cracklib license
From: Alec Muffett <alecm@cr...> - 2007-10-02 08:57
>
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> maintainers to get together with Alec in a conversation and come to a
> decision as to what licensing scheme y'all want. I haven't really done
> much other than cleaning up the packaging and patches and a small
> bit of
> > additional code, so whatever licensing y'all come up with is fine
> > by me.

I am sympathetic. Guys, what do you reckon?

What I am hearing so far is that LGPL makes sense, since it can be
linked with any code, not just GPL....

-a

Re: [Cracklib-devel] cracklib license
From: Devin Reade <gdr@g...> - 2007-10-02 15:04
I would like to see it under LGPL as well. I think it is in everyone's
best interests to have as secure systems as possible, and I think tainting
it via GPL will just make it less likely that the library gets used, and
will not usually cause companies/developers to GPL the dependent code
(where it is not already GPL).

I like GPL, I use it when I can, but I don't think that it's the correct
license in this situation.

Devin
--
If it's sinful, it's more fun.

Re: [Cracklib-devel] cracklib license
From: Nalin Dahyabhai <nalin@re...> - 2008-01-28 16:32
On Tue, Oct 02, 2007 at 09:57:31AM +0100, Alec Muffett wrote:
> > Seems like the ideal thing here would be for you and the other distro
> > maintainers to get together with Alec in a conversation and come to a
> > decision as to what licensing scheme y'all want. I haven't really done
> > much other than cleaning up the packaging and patches and a small
> > bit of
> > > additional code, so whatever licensing y'all come up with is fine
> > > by me.
> > >
> > I am sympathetic. Guys, what do you reckon?
> >
> > What I am hearing so far is that LGPL makes sense, since it can be
> > linked with any code, not just GPL....

My apologies for not chiming in in anything resembling a reasonable
I'd also suggest the LGPL, for the reason you noted above. Alternately, GPLv2 with the option of using the library under a later version of the GPL would permit applications which were released under version 3 of the GPL to use the library, too, which would be sufficient for the packages which are included in Fedora. FWIW, I'd personally lean toward LGPL.

In any case, I thank you both for working on sorting this out.

Cheers,

Nalin

Re: [Cracklib-devel] cracklib license
From: Mike Frysinger <vapier@ge...> - 2008-10-05 21:27

Attachments: Message as HTML
On Monday 28 January 2008, Nalin Dahyabhai wrote:
> On Tue, Oct 02, 2007 at 09:57:31AM +0100, Alec Muffett wrote:
> > > Seems like the ideal thing here would be for you and the other distro
> > > maintainers to get together with Alec in a conversation and come to a
> > > decision as to what licensing scheme y'all want. I haven't really done
> > > much other than cleaning up the packaging and patches and a small
> > > bit of
> > > additional code, so whatever licensing y'all come up with is fine
> > > by me.
> >
> > I am sympathetic. Guys, what do you reckon?
> >
> > What I am hearing so far is that LGPL makes sense, since it can be
> > linked with any code, not just GPL....
> >
> > My apologies for not chiming in in anything resembling a reasonable
> > timeframe.
> >
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> > GPLv2 with the option of using the library under a later version of the
> > GPL would permit applications which were released under version 3 of the
> > GPL to use the library, too, which would be sufficient for the packages
> > which are included in Fedora. FWIW, I'd personally lean toward LGPL.
> >
> > In any case, I thank you both for working on sorting this out.

looks like everyone is OK with LGPL-2.1 (GNU Lesser license), so can we make the change now?

-mike
Re: [Cracklib-devel] cracklib license
From: Alec Muffett <alecm@cr...> - 2008-10-05 23:18

>> In any case, I thank you both for working on sorting this out.
>
> looks like everyone is OK with LGPL-2.1 (GNU Lesser license), so can we make
> the change now ?

yes. go for it. thanks++

-a

Re: [Cracklib-devel] cracklib license
From: Mike Frysinger <vapier@ge...> - 2008-10-25 22:34

Attachments: Message as HTML

On Sunday 05 October 2008, Alec Muffett wrote:
> >> In any case, I thank you both for working on sorting this out.
> >
> > looks like everyone is OK with LGPL-2.1 (GNU Lesser license), so can we
> > make the change now ?
> >
> > yes. go for it. thanks++

Nathan Neulinger is the only one who can actually make said change ...

-mike

----------
BELOW IS ORIGINAL LICENSING DISCUSSION RE CHANGING TO GPL from Artistic.
----------

CrackLib was originally licensed with a variant of the Artistic license. In the
interests of wider acceptance and more modern licensing, it was switched with
the original author's blessing to GPL v2.

This approval was carried out in email discussions in 2005, and has been reconfirmed
as of 2007-10-01 with the following email from Alec Muffett.

The below email references nneul@umr.edu address, as that is the address
that was used at the time. For any future emails regarding this, please
use nneul@neulinger.org.

----------------------------------
From alecm@crypticide.com Mon Oct  1 12:26:03 2007
Received: from umr-exproto2.cc.umr.edu ([131.151.0.192]) by UMR-CMAIL1.umr.edu with Microsoft
SMTPSVC (6.0.3790.3959);
    Mon, 1 Oct 2007 12:26:03 -0500
Received: from scansrv2.srv.mst.edu ([131.151.1.114]) by umr-exproto2.cc.umr.edu with Microsoft
SMTPSVC (6.0.3790.3959);
    Mon, 1 Oct 2007 12:26:02 -0500
Received: (qmail 8022 invoked from network); 1 Oct 2007 16:59:55 -0000
Received: from smtp1.srv.mst.edu (131.151.1.43)
    by scanin-ipvs.cc.umr.edu with SMTP; 1 Oct 2007 16:59:55 -0000
Received: from spunkymail-mx8.g.dreamhost.com (mx1.spunky.mail.dreamhost.com [208.97.132.47])
    by smtp1.srv.mst.edu (8.13.1/8.13.1) with ESMTP id l91Gxtpr020623
    for <nneul@umr.edu>; Mon, 1 Oct 2007 11:59:55 -0500
Received: from rutherford.zen.co.uk (rutherford.zen.co.uk [212.23.3.142])
    by spunkymail-mx8.g.dreamhost.com (Postfix) with ESMTP id 2C7734D311
    for <nneul@neulinger.org>; Mon, 1 Oct 2007 09:59:50 -0700 (PDT)
Received: from [82.68.43.14] (helol=192.168.1.3)
    by rutherford.zen.co.uk with esmtp (Exim 4.50)
    id 11cOcX-0004Qt-6L
    for nneul@neulinger.org; Mon, 01 Oct 2007 16:59:49 +0000
Mime-Version: 1.0 (Apple Message framework v752.2)
In-Reply-To: <1b1b3fd80710010908k11dac0afp1f2dd471059ff9a4@mail.gmail.com>
References: <1190922867.3457.147.camel@localhost.localdomain>
    <EC90713277D2BE41B7110CCD74E235CEF44F38@UMR-CMAIL1.umr.edu>
    <1b1b3fd80710010908k11dac0afp1f2dd471059ff9a4@mail.gmail.com>
Content-Type: text/plain; charset=US-ASCII; delsp=yes; format=flowed
Message-Id: <117A1264-F6DC-4E25-B0DD-56FBFEBE6E9F@crypticide.com>
Content-Transfer-Encoding: 7bit
From: Alec Muffett <alecm@crypticide.com>
Subject: Re: cracklib license
Date: Mon, 1 Oct 2007 17:59:46 +0100
To: Nathan Neulinger <nneul@neulinger.org>
X-Mailer: Apple Mail (2.752.2)
X-Originating-Rutherford-IP: [82.68.43.14]
Return-Path: alecm@crypticide.com
X-OriginalArrivalTime: 01 Oct 2007 17:26:03.0008 (UTC) FILETIME=[2420C000:01C80450]
Status: RO
Content-Length: 585
Lines: 21

> ---------- Forwarded message ----------
> From: Neulinger, Nathan <nneul@umr.edu>
> Date: Sep 27, 2007 2:58 PM
> Subject: RE: cracklib license
> To: alecm@crypto.dircon.co.uk
Any chance you could write me a self-contained email stating clearly that the license is being changed to GPL, so I could include that email in the repository and clean up the repository/tarballs? I have all the original discussion, but something succinct and self-contained would be ideal.

The license for my code in the Cracklib distribution is henceforth GPL.

Happy now? :-)

-a

1.300 jetty-io 9.4.12.v20180830

1.301 public-suffix 20180223.1310 1

1.301.1 Available under license:

Format: https://www.debian.org/doc/packaging-manuals/copyright-format/1.0/
Upstream-Name: Public Suffix List
Upstream-Contact: Public Suffix List <contact@publicsuffix.org>
Source: https://publicsuffix.org/

Files: *
Copyright: 2010-2012 Daniel Veditz,
    Ehsan Akhgari,
    Gervase Markham,
    Jason Duell,
    Jothan Frakes,
    Mitchell Field,
    Mounir Lamouri,
    Ruben Arakelyan,
    Simone Carletti
License: MPL-2.0

Files: debian/*
Copyright: 2012 Daniel Kahn Gillmor <dkg@fifthhorseman.net>
License: MPL-2.0

Files: tests/test_psl.txt
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2.7.4

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<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

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1.310 iconv 1.0
1.310.1 Available under license :
No license file was found, but licenses were detected in source scan.

Metadata-Version: 1.0
Name: iconv
Version: 1.0
Summary: iconv-based Unicode converter
Home-page: http://sourceforge.net/projects/python-codecs/
Author: Martin v. L¶wis
Author-email: martin@v.loewis.de
License: UNKNOWN
Description: The iconv module exposes the operating system's iconv character conversion routine to Python. This package provides an iconv wrapper as well as a Python codec to convert between Unicode objects and all iconv-provided encodings.

Platform: UNKNOWN

Found in path(s):
*/opt/cola/permits/1152123290_1618086059.36/0/iconv-1-0-1-tar-gz/iconv-1.0/PKG-INFO

1.311 zip 3.0-11.amzn2.0.2
1.311.1 Available under license :

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1.312 libuv 1.34.2

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1.324 fluent-hc 4.3.5

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1.325 ncurses 6.1

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---
abstract: 'Source Filters'
author:
- Paul Marquess <pmqs@cpan.org>
build_requires:
  ExtUtils::MakeMaker: 0
configure_requires:
  ExtUtils::MakeMaker: 0
dynamic_config: 1
generated_by: 'ExtUtils::MakeMaker version 6.64, CPAN::Meta::Converter version 2.120630'
license: perl
meta-spec:
  url: http://module-build.sourceforge.net/META-spec-v1.4.html
  version: 1.4
name: Filter
no_index:
directory:
  - t
  - inc
recommends:
  Filter::Simple: 0.88
  Filter::Simple::Compile: 0.02
requires: {}
resources:
  license: http://dev.perl.org/licenses/
  repository: https://github.com/rurban/Filter
version: 1.49

Found in path(s):
* /opt/cola/permits/1006412732_1635364628.78/0/perl-Filter-1.49-3.amzn2.0.2.src.rpm-cosi-expand-archive-SUtPG3gF/Filter-1.49.tar.gz-cosi-expand-archive-ew9aGz7Z/Filter-1.49/META.yml
No license file was found, but licenses were detected in source scan.

/*
   *---------------------------------------------------------------------
   * pport.h -- Perl/Pollution/Portability Version 3.16
   *---------------------------------------------------------------------

   Automatically created by Devel::PPPort running under perl 5.011000.

   Do NOT edit this file directly! -- Edit PPPort.pm.PL and the
   includes in parts/inc/ instead.

   Use 'perldoc pport.h' to view the documentation below.

   *---------------------------------------------------------------------

   SKIP

   =pod

   =head1 NAME

   pport.h - Perl/Pollution/Portability version 3.16

   =head1 SYNOPSIS

   perl pport.h [options] [source files]

   Searches current directory for files if no [source files] are given

   --help show short help

   --version show version

   --patch=file write one patch file with changes
   --copy=suffix write changed copies with suffix
   --diff=program use diff program and options

   --compat-version=version provide compatibility with Perl version
   --cplusplus accept C++ comments

   --quiet don't output anything except fatal errors
   --nodiaq don't show diagnostics
   --nohints don't show hints
   --nochanges don't suggest changes
   --nofilter don't filter input files

   --strip strip all script and doc functionality from
ppport.h

--list-provided       list provided API
--list-unsupported    list unsupported API
--api-info=name       show Perl API portability information

=head1 COMPATIBILITY

This version of F<ppport.h> is designed to support operation with Perl installations back to 5.003, and has been tested up to 5.10.0.

=head1 OPTIONS

=head2 --help

Display a brief usage summary.

=head2 --version

Display the version of F<ppport.h>.

=head2 --patch=I<file>

If this option is given, a single patch file will be created if any changes are suggested. This requires a working diff program to be installed on your system.

=head2 --copy=I<suffix>

If this option is given, a copy of each file will be saved with the given suffix that contains the suggested changes. This does not require any external programs. Note that this does not automagically add a dot between the original filename and the suffix. If you want the dot, you have to include it in the option argument.

If neither C<--patch> or C<--copy> are given, the default is to simply print the diffs for each file. This requires either C<Text::Diff> or a C<diff> program to be installed.

=head2 --diff=I<program>

Manually set the diff program and options to use. The default is to use C<Text::Diff>, when installed, and output unified context diffs.

=head2 --compat-version=I<version>
Tell F<ppport.h> to check for compatibility with the given Perl version. The default is to check for compatibility with Perl version 5.003. You can use this option to reduce the output of F<ppport.h> if you intend to be backward compatible only down to a certain Perl version.

=head2 --cplusplus

Usually, F<ppport.h> will detect C++ style comments and replace them with C style comments for portability reasons. Using this option instructs F<ppport.h> to leave C++ comments untouched.

=head2 --quiet

Be quiet. Don't print anything except fatal errors.

=head2 --nodiag

Don't output any diagnostic messages. Only portability alerts will be printed.

=head2 --nohints

Don't output any hints. Hints often contain useful portability notes. Warnings will still be displayed.

=head2 --nochanges

Don't suggest any changes. Only give diagnostic output and hints unless these are also deactivated.

=head2 --nofilter

Don't filter the list of input files. By default, files not looking like source code (i.e. not *.xs, *.c, *.cc, *.cpp or *.h) are skipped.

=head2 --strip

Strip all script and documentation functionality from F<ppport.h>. This reduces the size of F<ppport.h> dramatically and may be useful if you want to include F<ppport.h> in smaller modules without increasing their distribution size too much.

The stripped F<ppport.h> will have a C<--unstrip> option that allows you to undo the stripping, but only if an appropriate C<Devel::PPPort> module is installed.
Lists the API elements for which compatibility is provided by `ppport.h`. Also lists if it must be explicitly requested, if it has dependencies, and if there are hints or warnings for it.

Lists the API elements that are known not to be supported by `ppport.h` and below which version of Perl they probably won't be available or work.

Show portability information for API elements matching `<name>`. If `<name>` is surrounded by slashes, it is interpreted as a regular expression.

In order for a Perl extension (XS) module to be as portable as possible across differing versions of Perl itself, certain steps need to be taken.

Including this header is the first major one. This alone will give you access to a large part of the Perl API that hasn't been available in earlier Perl releases. Use

```
perl ppport.h --list-provided
```

to see which API elements are provided by `ppport.h`.

You should avoid using deprecated parts of the API. For example, using global Perl variables without the `perl_` prefix is deprecated. Also, some API functions used to have a `perl_` prefix. Using this form is also deprecated. You can safely use the supported API, as `ppport.h` will provide wrappers for older Perl versions.

If you use one of a few functions or variables that were not present in earlier versions of Perl, and that can't be provided using a macro, you have to explicitly request support for these functions by adding one or
more C<#define>s in your source code before the inclusion of F<ppport.h>.

These functions or variables will be marked C<explicit> in the list shown by C<--list-provided>.

Depending on whether you module has a single or multiple files that use such functions or variables, you want either C<static> or global variants.

For a C<static> function or variable (used only in a single source file), use:

```c
#define NEED_function
#define NEED_variable
```

For a global function or variable (used in multiple source files), use:

```c
#define NEED_function_GLOBAL
#define NEED_variable_GLOBAL
```

Note that you mustn't have more than one global request for the same function or variable in your project.

<table>
<thead>
<tr>
<th>Function / Variable</th>
<th>Static Request</th>
<th>Global Request</th>
</tr>
</thead>
<tbody>
<tr>
<td>PL_parser</td>
<td>NEED_PL_parser</td>
<td>NEED_PL_parser_GLOBAL</td>
</tr>
<tr>
<td>PL_signals</td>
<td>NEED_PL_signals</td>
<td>NEED_PL_signals_GLOBAL</td>
</tr>
<tr>
<td>eval_pv()</td>
<td>NEED_eval_pv</td>
<td>NEED_eval_pv_GLOBAL</td>
</tr>
<tr>
<td>grok_bin()</td>
<td>NEED_grok_bin</td>
<td>NEED_grok_bin_GLOBAL</td>
</tr>
<tr>
<td>grok_hex()</td>
<td>NEED_grok_hex</td>
<td>NEED_grok_hex_GLOBAL</td>
</tr>
<tr>
<td>grok_number()</td>
<td>NEED_grok_number</td>
<td>NEED_grok_number_GLOBAL</td>
</tr>
<tr>
<td>grok_numeric_radix()</td>
<td>NEED_grok_numeric_radix</td>
<td>NEED_grok_numeric_radix_GLOBAL</td>
</tr>
<tr>
<td>grok_oct()</td>
<td>NEED_grok_oct</td>
<td>NEED_grok_oct_GLOBAL</td>
</tr>
<tr>
<td>load_module()</td>
<td>NEED_load_module</td>
<td>NEED_load_module_GLOBAL</td>
</tr>
<tr>
<td>my_snprintf()</td>
<td>NEED_my_snprintf</td>
<td>NEED_my_snprintf_GLOBAL</td>
</tr>
<tr>
<td>my_sprintf()</td>
<td>NEED_my_sprintf</td>
<td>NEED_my_sprintf_GLOBAL</td>
</tr>
<tr>
<td>my_strlcat()</td>
<td>NEED_my_strlcat</td>
<td>NEED_my_strlcat_GLOBAL</td>
</tr>
<tr>
<td>my_strlcpy()</td>
<td>NEED_my_strlcpy</td>
<td>NEED_my_strlcpy_GLOBAL</td>
</tr>
<tr>
<td>newCONSTSUB()</td>
<td>NEED_newCONSTSUB</td>
<td>NEED_newCONSTSUB_GLOBAL</td>
</tr>
<tr>
<td>newRV_noinc()</td>
<td>NEED_newRV_noinc</td>
<td>NEED_newRV_noinc_GLOBAL</td>
</tr>
<tr>
<td>newSVpvn_flags()</td>
<td>NEED_newSVpvn_flags</td>
<td>NEED_newSVpvn_flags_GLOBAL</td>
</tr>
<tr>
<td>newSVpvn_share()</td>
<td>NEED_newSVpvn_share</td>
<td>NEED_newSVpvn_share_GLOBAL</td>
</tr>
<tr>
<td>pv_display()</td>
<td>NEED_pv_display</td>
<td>NEED_pv_display_GLOBAL</td>
</tr>
<tr>
<td>pv_escape()</td>
<td>NEED_pv_escape</td>
<td>NEED_pv_escape_GLOBAL</td>
</tr>
<tr>
<td>pv_pretty()</td>
<td>NEED_pv_pretty</td>
<td>NEED_pv_pretty_GLOBAL</td>
</tr>
<tr>
<td>sv_2pv_flags()</td>
<td>NEED_sv_2pv_flags</td>
<td>NEED_sv_2pv_flags_GLOBAL</td>
</tr>
<tr>
<td>sv_2pvbyte()</td>
<td>NEED_sv_2pvbyte</td>
<td>NEED_sv_2pvbyte_GLOBAL</td>
</tr>
</tbody>
</table>
To avoid namespace conflicts, you can change the namespace of the explicitly exported functions / variables using the C\texttt{DPPP_NAMESPACE} macro. Just C\texttt{#define} the macro before including C\texttt{ppport.h}:

\begin{verbatim}
#define DPPP_NAMESPACE MyOwnNamespace_
#include "ppport.h"
\end{verbatim}

The default namespace is C\texttt{DPPP_}.

=back

The good thing is that most of the above can be checked by running F\texttt{ppport.h} on your source code. See the next section for details.

=head1 EXAMPLES

To verify whether F\texttt{ppport.h} is needed for your module, whether you should make any changes to your code, and whether any special defines should be used, F\texttt{ppport.h} can be run as a Perl script to check your source code. Simply say:

perl ppport.h

The result will usually be a list of patches suggesting changes that should at least be acceptable, if not necessarily the most efficient solution, or a fix for all possible problems.

If you know that your XS module uses features only available in newer Perl releases, if you're aware that it uses C++ comments, and if you want all suggestions as a single patch file, you could use something like this:

perl ppport.h --compat-version=5.6.0 --cplusplus --patch=test.diff

If you only want your code to be scanned without any suggestions for changes, use:

perl ppport.h --nochanges
You can specify a different `diff` program or options, using the `--diff` option:

    perl ppport.h --diff='diff -C 10'

This would output context diffs with 10 lines of context.

If you want to create patched copies of your files instead, use:

    perl ppport.h --copy=.new

To display portability information for the `newSVpvn` function, use:

    perl ppport.h --api-info=newSVpvn

Since the argument to `--api-info` can be a regular expression, you can use

    perl ppport.h --api-info=/_nomg$/

to display portability information for all `/_nomg/` functions or

    perl ppport.h --api-info=/ /

to display information for all known API elements.

=head1 BUGS

If this version of `ppport.h` is causing failure during the compilation of this module, please check if newer versions of either this module or `Devel::PPPort` are available on CPAN before sending a bug report.

If `ppport.h` was generated using the latest version of `Devel::PPPort` and is causing failure of this module, please file a bug report using the CPAN Request Tracker at L<http://rt.cpan.org/>.

Please include the following information:

=over 4

=item 1.

The complete output from running "perl -V"

=item 2.
This file.

=item 3.
The name and version of the module you were trying to build.

=item 4.
A full log of the build that failed.

=item 5.
Any other information that you think could be relevant.

=back

For the latest version of this code, please get the C<Devel::PPPort>
module from CPAN.

=head1 COPYRIGHT

Version 3.x, Copyright (c) 2004-2009, Marcus Holland-Moritz.

Version 2.x, Copyright (C) 2001, Paul Marquess.

Version 1.x, Copyright (C) 1999, Kenneth Albanowski.

This program is free software; you can redistribute it and/or
modify it under the same terms as Perl itself.

=head1 SEE ALSO

See L<Devel::PPPort>.

=cut

use strict;

# Disable broken TRIE-optimization
BEGIN { eval '"{$^RE_TRIE_MAXBUF} = -1' if $] >= 5.009004 && $] <= 5.009005 ' }

my $VERSION = 3.16;

my %opt = (
  quiet => 0,
  diag  => 1,
  hints => 1,
)
changes => 1,
cplusplus => 0,
filter => 1,
strip => 0,
version => 0,
);

my($ppport) = $0 =~ /\([\w.]+)\$/;
my $LF = '(?:\r\n|\[\r\n\])'; # line feed
my $HS = "[ \t]"; # horizontal whitespace

# Never use C comments in this file!
my $ecs = '\.'.'*';
my $ece = "*\.';
my $rccs = quotemeta $ccs;
my $rcce = quotemeta $cce;

eval {
    require Getopt::Long;
    Getopt::Long::GetOptions(%opt, qw(
        help quiet diag! filter! hints! changes! cplusplus strip version
        patch=s copy=s diff=s compat-version=s
        list-provided list-unsupported api-info=s
    )) or usage();
};

if ($@ and grep /^-/, @ARGV) {
    usage() if "$ARGV" =~ /^--?h(?:elp)?$/;
    die "Getopt::Long not found. Please don't use any options.\n";
}

if ($opt{version}) {
    print "This is $0 $VERSION.\n";
    exit 0;
}

usage() if $opt{help};
strip() if $opt{strip};

if (exists $opt{'compat-version'}) {
    my($r,$v,$s) = eval { parse_version($opt{'compat-version'}) };
    if ($@) {
        die "Invalid version number format: '$opt{'compat-version'}'\n";
    }
    die "Only Perl 5 is supported\n" if $r != 5;
    die "Invalid version number: $opt{'compat-version'}\n" if $v >= 1000 || $s >= 1000;
    $opt{'compat-version'} = sprintf "%d.%03d%03d", $r, $v, $s;
}
else {
    $opt{'compat-version'} = 5;
}

my %API = map { /^\w+\|(\[^|\]*)\|\([^|\]*)\|\([^|\]*)\|\([^|\]*)\$/?
    ($1 =>
        ($2                  ? ( base     => $2 ) : ()),
        ($3                  ? ( todo     => $3 ) : ()),
        (index($4, 'v')      >= 0 ? ( varargs => 1 ) : ()),
        (index($4, 'p')      >= 0 ? ( provided => 1 ) : ()),
        (index($4, 'n')      >= 0 ? ( nothxarg => 1 ) : ()),
    )
    : die "invalid spec: $_" } qw(
    AvFILLp|5.004050||p
    AvFILL||
    CLASS|||n
    CPERLscope|||p
    CX_CURPAD_SAVE|||
    CX_CURPAD_SV|||
    CopFILEAV|5.006000||p
    CopFILEAV_set|5.006000||p
    CopFILEGV_set|5.006000||p
    CopFILEGV|5.006000||p
    CopFILESV|5.006000||p
    CopFILE_set|5.006000||p
    CopFILE|5.006000||p
    CopSTASHPV_set|5.006000||p
    CopSTASHPV|5.006000||p
    CopSTASH_eq|5.006000||p
    CopSTASH_set|5.006000||p
    CopSTASH|5.006000||p
    CopyD|5.009002||p
    Copy|||
    CvPADLIST|||
    CvSTASH|||
    CvWEAKOUTSIDE|||
    DEFSV_set|||p
    DEFSV|5.004050||p
    END_EXTERN_C|5.005000||p
    ENTER|||
    ERRSV|5.004050||p
    EXTEND|||
    EXTERN_C|5.005000||p
    F0convert|||n
    FREETMPS|||
    GIMME_V|5.004000|n
    GIMME|||n
    GROK_NUMERIC_RADIX|5.007002||p
    G_ARRAY|||
PERL_SCAN_SILENT_ILLDIGIT|5.008001||p
PERL_SHORT_MAX|5.004000||p
PERL_SHORT_MIN|5.004000||p
PERL_SIGNALS_UNSAFE_FLAG|5.008001||p
PERL_SUBVERSION|5.006000||p
PERL_UCHAR_MAX|5.004000||p
PERL_UCHAR_MIN|5.004000||p
PERL_UINT_MAX|5.004000||p
PERL_UINT_MIN|5.004000||p
PERL_UULONG_MAX|5.004000||p
PERL_UULONG_MIN|5.004000||p
PERL_UNUSED_ARG|5.009003||p
PERL_UNUSED_CONTEXT|5.009004||p
PERL_UNUSED_DECL|5.007002||p
PERL_UNUSED_VAR|5.007002||p
PERL_UQUAD_MAX|5.004000||p
PERL_UQUAD_MIN|5.004000||p
PERL_USE_GCC_BRACE_GROUPS|5.009004||p
PERL_USHORT_MAX|5.004000||p
PERL_USHORT_MIN|5.004000||p
PERL_VERSION|5.006000||p
PL_DBsignal|5.005000||p
PL_DBsingle|5.004000||p
PL_DBsub|5.004000||p
PL_DBtrace|5.004000||p
PL_Sv|5.005000||p
PL_bufend|5.004000||p
PL_bufptr|5.004000||p
PL_compiling|5.004050||p
PL_copline|5.011000||p
PL_curcop|5.004050||p
PL_curstash|5.004050||p
PL_debstash|5.004050||p
PL_defgv|5.004050||p
PL_dirty|5.004050||p
PL_dowarn|5.004050||p
PL_errgv|5.004050||p
PL_expect|5.011000||p
PL_hexdigit|5.011000||p
PL_hints|5.005000||p
PL_last_in_gv|5.005000||p
PL_laststatval|5.005000||p
PL_lex_state|5.004000||p
PL_lex_stuff|5.004000||p
PL_linestrt|5.004000||p
PL_modglobal|5.005000||p
PL_na|5.004050||p

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PerIIO_fileno||5.007003|
PerIIO_fill||5.007003|
PerIIO_flush||5.007003|
PerIIO_get_base||5.007003|
PerIIO_get bufsize||5.007003|
PerIIO_get cnt||5.007003|
PerIIO_get ptr||5.007003|
PerIIO_read||5.007003|
PerIIO_seek||5.007003|
PerIIO_set cnt||5.007003|
PerIIO_set ptrcnt||5.007003|
PerIIO_setlinebuf||5.007003|
PerIIO_stderr||5.007003|
PerIIO_stdin||5.007003|
PerIIO_stdout||5.007003|
PerlIIO_tell||5.007003|
PerIIO_unread||5.007003|
PerIIO_write||5.007003|
PerlIIO_signbit||5.009005
PoisonFree||5.009004||p
PoisonNew||5.009004||p
PoisonWith||5.009004||p
Poison||5.008000||p
RETV AL||n
Renewc||
Renew||
SAVECLEARSV||
SAVECOMPPAD||
SAVEPADSV||
SAVETMPS||
SAVE DEFSV||5.004050||p
SPAGAIN||
SP||
START_EXTERN_C||5.005000||p
START_MY_CXT||5.007003||p
STMT END||
p
STMT_START||
p
STR WITH LEN||5.009003||p
ST||
SV CONST RETURN||5.009003||p
SV COW DROP PV||5.008001||p
SV COW SHARED HASH KEYS||5.009005||p
SV GMAGIC||5.007002||p
SV HAS TRAILING NUL||5.009004||p
SV IMMEDIATE UNREF||5.007001||p
SV MUTABLE RETURN||5.009003||p
SV NOSTEAL||5.009002||p
SV SMAGIC||5.009003||p
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UTF8_MAXBYTES[5.009002]|p
UVSIZE[5.006000]|p
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UVof[5.006000]|p
UVuf[5.006000]|p
UVxf[5.006000]|p
WARN_ALL[5.006000]|p
WARN_AMBIGUOUS[5.006000]|p
WARN_ASSERTIONS[5.011000]|p
WARN_BAREWORD[5.006000]|p
WARN_CLOSED[5.006000]|p
WARN_CLOSURE[5.006000]|p
WARN_DEBUGGING[5.006000]|p
WARN_DEPRECATED[5.006000]|p
WARN_DIGIT[5.006000]|p
WARN_EXEC[5.006000]|p
WARN_EXITING[5.006000]|p
WARN_GLOB[5.006000]|p
WARN_INPLACE[5.006000]|p
WARN_INTERNAL[5.006000]|p
WARN_IO[5.006000]|p
WARN_LAYER[5.008000]|p
WARN_MALLOC[5.006000]|p
WARN_MISC[5.006000]|p
WARN_NEWLINE[5.006000]|p
WARN_NUMERIC[5.006000]|p
WARN_ONCE[5.006000]|p
WARN_OVERFLOW[5.006000]|p
WARN_PACK[5.006000]|p
WARN_PARENTHESIS[5.006000]|p
WARN_PIPE[5.006000]|p
WARN_PORTABLE[5.006000]|p
WARN_PRECEDENCE[5.006000]|p
WARN_PRINTF[5.006000]|p
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sv_iv|5.005000|
sv_kill_backrefs
sv_len_utf8|5.006000|
sv_len

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sv_magic_portable|5.011000|5.004000|p
sv_magicext|5.007003|
sv_magic|||
sv_mortalcopy|||
sv_ncmp|||
sv_newmortal|||
sv_newref|||
sv_nolocking|5.007003|
sv_nosharing|5.007003|
sv_nounlocking|||
sv_nv|5.005000|
sv.peek|5.005000|
sv_pos_b2u_midway|||
sv_pos_b2u|5.006000|
sv_pos_u2b_cached|||
sv_pos_u2b_forwards||n
sv_pos_u2b_midway||n
sv_pos_u2b|5.006000|
sv_pvbyten_force|5.006000|
sv_pvbyten|5.006000|
sv_pvbyte|5.006000|
sv_pvn_force_flags|5.007002||p
sv_pvn_force|||
sv_pvn_nomg|5.007003|5.005000|p
sv_pvn|5.005000|
sv_pvutf8n_force|5.006000|
sv_pvutf8n|5.006000|
sv_pvutf8|5.006000|
sv_pv|5.006000|
sv_recode_to_utf8|5.007003|
sv_reftype|||
sv_release_COW|||
sv_replace|||
sv_report_used|||
sv_reset|||
sv_rvweaken|5.006000|
sv_setiv_mg|5.004050||p
sv_setiv|||
sv_setnv_mg|5.006000||p
sv_setnv|||
sv_setpv_mg|5.004050||p
sv_setpvf_mg_nocontext|||pvn
sv_setpvf_mg|5.006000|5.004000|pv
sv_setpvf_nocontext|||vn
sv_setpvf|5.004000|v
sv_setpviv_mg|5.008001|
sv_setpviv|5.008001|
sv_setpvn_mg|5.004050|p
sv_setpvn
sv_setpvs[5.009004]p
sv_setpv
sv_setref_iv
sv_setref_nv
sv_setref_pvn
sv_setref_pv
sv_setref_uv[5.007001]
sv_setsv_cow
sv_setsv_flags[5.007002]
sv_setsv_mg[5.004050]p
sv_setsv_nomg[5.007002]p
sv_setsv
sv_setuv_mg[5.004050]p
sv_setuv[5.004000]p
sv_tainted[5.004000]
sv_taint[5.004000]
sv_true[5.005000]
sv_unglob
sv_uni_display[5.007003]
sv_unmagic
sv_unref_flags[5.007001]
sv_unref
sv_untaint[5.004000]
sv_upgrade
sv_usepvn_flags[5.009004]
sv_usepvn_mg[5.004050]p
sv_usepvn
sv_utf8_decode[5.006000]
sv_utf8 downgrade[5.006000]
sv_utf8_encode[5.006000]
sv_utf8_upgrade_flags[5.007002]
sv_utf8_upgrade[5.007001]
sv_uv[5.005000]p
sv_vcatpvf_mg[5.006000][5.004000]p
sv_vcatpvfn[5.004000]
sv_vcatpvf[5.006000][5.004000]p
sv_vsetpvf_mg[5.006000][5.004000]p
sv_vsetpvfn[5.004000]
sv_vsetpvf[5.006000][5.004000]p
sv_xmlpeek
sv_type
swallow_bom
swap_match_buf
swash_fetch[5.007002]
swash_get
swash_init[5.006000]
sys_init3[5.010000]n
xmldump_vindent|||
yyerror|||
yylex|||
yyparse|||
yywarn|||
);
if (exists $opt{'list-unsupported'}) {
my $f;
for $f (sort { lc $a cmp lc $b } keys %API) {
next unless $API{$f}{todo};
print "$f ", '.'x(40-length($f)), " ", format_version($API{$f}{todo}), "\n";
}
exit 0;
}
# Scan for possible replacement candidates
my(%replace, %need, %hints, %warnings, %depends);
my $replace = 0;
my($hint, $define, $function);
sub find_api
{
my $code = shift;
$code =~ s{
/ (?: \*[^*]*\*+(?:[^$ccs][^*]*\*+)* / | /[^\r\n]*)
| "[^"\\]*(?:\\.[^"\\]*)*"
| '[^'\\]*(?:\\.[^'\\]*)*' }{}egsx;
grep { exists $API{$_} } $code =~ /(\w+)/mg;
}
while (<DATA>) {
if ($hint) {
my $h = $hint->[0] eq 'Hint' ? \%hints : \%warnings;
if (m{^\s*\*\s(.*?)\s*$}) {
for (@{$hint->[1]}) {
$h->{$_} ||= ''; # suppress warning with older perls
$h->{$_} .= "$1\n";
}
}
else { undef $hint }
}
$hint = [$1, [split /,?\s+/, $2]]
if m{^\s*$rccs\s+(Hint|Warning):\s+(\w+(?:,?\s+\w+)*)\s*$};
if ($define) {

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if ($define->[1] =~ /\\$/) {
$define->[1] .= $_;
}
else {
if (exists $API{$define->[0]} && $define->[1] !~ /^DPPP_\(/) {
my @n = find_api($define->[1]);
push @{$depends{$define->[0]}}, @n if @n
}
undef $define;
}
}
$define = [$1, $2] if m{^\s*#\s*define\s+(\w+)(?:\([^)]*\))?\s+(.*)};
if ($function) {
if (/^}/) {
if (exists $API{$function->[0]}) {
my @n = find_api($function->[1]);
push @{$depends{$function->[0]}}, @n if @n
}
undef $function;
}
else {
$function->[1] .= $_;
}
}
$function = [$1, ''] if m{^DPPP_\(my_(\w+)\)};
$replace = $1 if m{^\s*$rccs\s+Replace:\s+(\d+)\s+$rcce\s*$};
$replace{$2} = $1 if $replace and m{^\s*#\s*define\s+(\w+)(?:\([^)]*\))?\s+(\w+)};
$replace{$2} = $1 if m{^\s*#\s*define\s+(\w+)(?:\([^)]*\))?\s+(\w+).*$rccs\s+Replace\s+$rcce};
$replace{$1} = $2 if m{^\s*$rccs\s+Replace (\w+) with (\w+)\s+$rcce\s*$};
if (m{^\s*$rccs\s+(\w+(\s*,\s*\w+)*)\s+depends\s+on\s+(\w+(\s*,\s*\w+)*)\s+$rcce\s*$}) {
my @deps = map { s/\s+//g; $_ } split /,/, $3;
my $d;
for $d (map { s/\s+//g; $_ } split /,/, $1) {
push @{$depends{$d}}, @deps;
}
}
$need{$1} = 1 if m{^#if\s+defined\(NEED_(\w+)(?:_GLOBAL)?\)};
}
for (values %depends) {
my %s;
$_ = [sort grep !$s{$_}++, @$_];

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if (exists $opt{'api-info'}) {
    my $f;
    my $count = 0;
    my $match = $opt{'api-info'} =~ m!^/(.*)/$! ? $1 : "$opt{'api-info'}";
    for $f (sort { lc $a cmp lc $b } keys %API) {
        next unless $f =~ /$match/;
        print "=== $f ===

";
        my $info = 0;
        if ($API{$f}{base} || $API{$f}{todo}) {
            my $base = format_version($API{$f}{base} || $API{$f}{todo});
            print "Supported at least starting from perl-$base\n";
            $info++;
        }
        if ($API{$f}{provided}) {
            my $todo = $API{$f}{todo} ? format_version($API{$f}{todo}) : "5.003";
            print "Support by $ppport provided back to perl-$todo\n";
            print "Support needs to be explicitly requested by NEED_$f\n" if exists $need{$f};
            print "Depends on: ', join(', ', @{$depends{$f}}), '.\n" if exists $depends{$f};
            print "\n" if exists $warnings{$f};
            print "\nWARNING:\n$warnings{$f}" if exists $warnings{$f};
            $info++;
        }
        print "No portability information available.\n" unless $info;
        $count++;
    }
    $count or print "Found no API matching '$opt{'api-info'}'.\n";
    exit 0;
}

if (exists $opt{'list-provided'}) {
    my $f;
    for $f (sort { lc $a cmp lc $b } keys %API) {
        next unless $API{$f}{provided};
        my @flags;
        push @flags, 'explicit' if exists $need{$f};
        push @flags, 'depend' if exists $depends{$f};
        push @flags, 'hint' if exists $hints{$f};
        push @flags, 'warning' if exists $warnings{$f};
        my $flags = @flags ? ['\join(', ', @flags).'] : "\n";
        print "$flags\n";
    }
    exit 0;
}

my @files;
my @srcext = qw( .xs .c .h .cc .cpp -c.inc -xs.inc );
my $srcext = join '|', map { quotemeta $_ } @srcext;
if (@ARGV) {
my %seen;
for (@ARGV) {
if (-e) {
if (-f) {
push @files, $_ unless $seen{$_}++;
}
else { warn "'$_' is not a file.\n" }
}
else {
my @new = grep { -f } glob $_
or warn "'$_' does not exist.\n";
push @files, grep { !$seen{$_}++ } @new;
}
}
}
else {
eval {
require File::Find;
File::Find::find(sub {
$File::Find::name =~ /($srcext)$/i
and push @files, $File::Find::name;
}, '.');
};
if ($@) {
@files = map { glob "*$_" } @srcext;
}
}
if (!@ARGV || $opt{filter}) {
my(@in, @out);
my %xsc = map { /(.*)\.xs$/ ? ("$1.c" => 1, "$1.cc" => 1) : () } @files;
for (@files) {
my $out = exists $xsc{$_} || /\b\Q$ppport\E$/i || !/($srcext)$/i;
push @{ $out ? \@out : \@in }, $_;
}
if (@ARGV && @out) {
warning("Skipping the following files (use --nofilter to avoid this):\n| ", join "\n| ", @out);
}
@files = @in;
}
die "No input files given!\n" unless @files;
my(%files, %global, %revreplace);

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%revreplace = reverse %replace;
my $filename;
my $patch_opened = 0;
for $filename (@files) {
unless (open IN, "<$filename") {
warn "Unable to read from $filename: $!\n";
next;
}
info("Scanning $filename ...");
my $c = do { local $/; <IN> };
close IN;
my %file = (orig => $c, changes => 0);
# Temporarily remove C/XS comments and strings from the code
my @ccom;
$c =~ s{
( ^$HS*\#$HS*include\b[^\r\n]+\b(?:\Q$ppport\E|XSUB\.h)\b[^\r\n]*
| ^$HS*\#$HS*(?:define|elif|if(?:def)?)\b[^\r\n]* )
| ( ^$HS*\#[^\r\n]*
| "[^"\\]*(?:\\.[^"\\]*)*"
| '[^'\\]*(?:\\.[^'\\]*)*'
| / (?: \*[^*]*\*+(?:[^$ccs][^*]*\*+)* / | /[^\r\n]* ) )
}{ defined $2 and push @ccom, $2;
defined $1 ? $1 : "$ccs$#ccom$cce" }mgsex;
$file{ccom} = \@ccom;
$file{code} = $c;
$file{has_inc_ppport} = $c =~ /^$HS*#$HS*include[^\r\n]+\b\Q$ppport\E\b/m;
my $func;
for $func (keys %API) {
my $match = $func;
$match .= "|$revreplace{$func}" if exists $revreplace{$func};
if ($c =~ /\b(?:Perl_)?($match)\b/) {
$file{uses_replace}{$1}++ if exists $revreplace{$func} && $1 eq $revreplace{$func};
$file{uses_Perl}{$func}++ if $c =~ /\bPerl_$func\b/;
if (exists $API{$func}{provided}) {
$file{uses_provided}{$func}++;
if (!exists $API{$func}{base} || $API{$func}{base} > $opt{'compat-version'}) {
$file{uses}{$func}++;
my @deps = rec_depend($func);
if (@deps) {

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$file{uses_deps}{$func} = \@deps;
for (@(deps)) {
    $file{uses}{$_} = 0 unless exists $file{uses}{$_};
}
for ($func, @deps) {
    $file{needs}{$_} = 'static' if exists $need{$_};
}
if (exists $API{$func}{todo} && $API{$func}{todo} > $opt{'compat-version'}) {
    if ($c =~ /\b$func\b/) {
        $file{uses_todo}{$func}++;
    }
}
while ($c =~ /^\$HS*#$HS*define$HS+(NEED_(\w+?)(_GLOBAL)?)\b/mg) {
    if (exists $need{$2}) {
        $file{defined $3 ? 'needed_global' : 'needed_static'}{$2}++;
    } else { warning("Possibly wrong #define $1 in $filename") }
}
for (qw(uses needs uses_todo needed_global needed_static)) {
    for $func (keys %{$file{$_}}) {
        push @{$global{$_}{$func}}, $filename;
    }
}
$files{$filename} = \%file;

# Globally resolve NEED_'s
my $need;
for $need (keys %{$global{needs}}) {
    if (@{$global{needs}{$need}} > 1) {
        my @targets = @{$global{needs}{$need}};
        my @t = grep $files{$_}[needed_global][$need], @targets;
        @targets = @t if @t;
        @t = grep /\.xs$/i, @targets;
        @targets = @t if @t;
        my $target = shift @targets;
        $files{$target}[needs][$need] = 'global';
        for (@{$global{needs}{$need}}) {
            $files{$_}[needs][$need] = 'extern' if $_ ne $target;
        }
    }
}
for $filename (@files) {
    exists $files{$filename} or next;

    info("== Analyzing $filename ==");

    my %file = %{$files{$filename}};
    my $func;
    my $c = $file{code};
    my $warnings = 0;

    for $func (sort keys %{$file{uses_Perl}}) {
        if ($API{$func}{varargs}) {
            unless ($API{$func}{nothxarg}) {
                my $changes = ($c =~ s{\b(Perl_$func\$*\(\$*\))?aTHX_\.?\)\([$\$])\*\})
                    { $1 . ($2 eq \') ? 'aTHX' : 'aTHX_ ' . $2 }ge);
                if ($changes) {
                    warning("Doesn't pass interpreter argument aTHX to Perl_$func");
                    $file{changes} += $changes;
                }
            }
            else {
                warning("Uses Perl_$func instead of $func");
                $file{changes} += ($c =~ s{\bPerl_$func\$*\(\$*\)?aTHX_\.?\)\([$\$])\*\})
                    {$func$1}\g);         
            }
        }
    }

    for $func (sort keys %{$file{uses_replace}}) {
        warning("Uses $func instead of $replace{$func}");
        $file{changes} += ($c =~ s/$func/$replace{$func}/g);
    }

    for $func (sort keys %{$file{uses_provided}}) {
        if ($file{uses}[$func]) {
            if (exists $file{uses_deps}[$func]) {
                diag("Uses $func, which depends on ", join(', ', @{$file{uses_deps}[$func]}));
            } else {
                diag("Uses $func");
            }
        }
        $warnings += hint($func);
    }
}
unless ($opt{quiet}) {
    for $func (sort keys %{$file{uses_todo}}) {
        print "*** WARNING: Uses $func, which may not be portable below perl ",
            format_version($API{$func}{todo}), ", even with '$ppport'\n";
        $warnings++;
    }
}

for $func (sort keys %{$file{needed_static}}) {
    my $message = ";
    if (not exists $file{uses}->{$func}) {
        $message = "No need to define NEED_$func if $func is never used";
    }
    elsif (exists $file{needs}->{$func} && $file{needs}->{$func} ne 'static') {
        $message = "No need to define NEED_$func when already needed globally";
    }
    if ($message) {
        diag($message);
        $file{changes} += ($c =~ s/^\$HS*#$HS*define$HS+NEED_$func\b.*\$LF//mg);
    }
}

for $func (sort keys %{$file{needed_global}}) {
    my $message = ";
    if (not exists $global{uses}->{$func}) {
        $message = "No need to define NEED_${func}_GLOBAL if $func is never used";
    }
    elsif (exists $file{needs}->{$func}) {
        if ($file{needs}->{$func} eq 'extern') {
            $message = "No need to define NEED_${func}_GLOBAL when already needed globally";
        }
        elsif ($file{needs}->{$func} eq 'static') {
            $message = "No need to define NEED_${func}_GLOBAL when only used in this file";
        }
    }
    if ($message) {
        diag($message);
        $file{changes} += ($c =~ s/^\$HS*#$HS*define$HS+NEED_${func}_GLOBAL\b.*\$LF//mg);
    }
}

$file{needs_inc_ppport} = keys %{$file{uses}};

if ($file{needs_inc_ppport}) {
    my $pp = "
    for $func (sort keys %{$file{needs}}) {
        my $type = $file{needs}->{$func};

next if $type eq 'extern';
my $suffix = $type eq 'global' ? '_GLOBAL' : '';
unless (exists $file{"needed_$type"}[$func]) {
    if ($type eq 'global') {
        diag("Files @ {$global{needs}[$func]} need $func, adding global request");
    } else {
        diag("File needs $func, adding static request");
    }
    $pp .= "#define NEED_$func$suffix\n";
}

if ($pp && ($c =~ s/^(?=$HS*#$HS*define$HS+NEED_\w+/+$pp/m)) {
    $pp = "";
    $file{changes}++;
}

unless ($file{has_inc_ppport}) {
    diag("Needs to include '$ppport'");
    $pp = qq(#include "$ppport\n")
}
if ($pp) {
    $file{changes} += ($c =~ s/^($HS*#$HS*define$HS+NEED_\w+.*)$/+$pp/m)
        || ($c =~ s/^($HS*#$HS*include.*Q$ppport\E)/+$pp/m)
        || ($c =~ s/^($HS*#$HS*include.*XSUB.*$s+?)/+$pp/m)
        || ($c =~ s/^/+$pp/);
} else {
    if ($file{has_inc_ppport}) {
        diag("No need to include '$ppport'");
        $file{changes} += ($c =~ s/^$HS*?#$HS*include.*$LF//m);
    }
}
# put back in our C comments
my $six;
my $cppc = 0;
my @ccom = @{$file{ccom}};
for $ix (0 .. $#ccom) {
    if (!$opt{cplusplus} && $ccom[$ix] =~ s!^//!!) {
        $cppc++;
        $file{changes} += $c =~ s/$rcs$ix$rcce/$ccom[$ix] $cce/;
    } else {
        $c =~ s/$rcs$ix$rcce/$ccom[$ix]/;
    }
}
if ($cppc) {
    my $s = $cppc != 1 ? 's' : '';
    warning("Uses $cppc C++ style comment$s, which is not portable");
}

my $s = $warnings != 1 ? 's' : '';  
my $warn = $warnings ? " ($warnings warning$s)" : '';  
info("Analysis completed$warn");

if ($file{changes}) {
    if (exists $opt{copy}) {
        my $newfile = "$filename$opt{copy}";
        if (-e $newfile) {
            error("'$newfile' already exists, refusing to write copy of '$filename'");
        } else {
            local *F;
            if (open F, ">$newfile") {
                info("Writing copy of '$filename' with changes to '$newfile'");
                print F $c;
                close F;
            } else {
                error("Cannot open '$newfile' for writing: $!");
            }
        }
    } else {
        mydiff(*PATCH, $filename, $c);
    }
} elsif (exists $opt{patch} || $opt{changes}) {
    if (exists $opt{patch}) {
        unless ($patch_opened) {
            if (open PATCH, ">$opt{patch}") {
                $patch_opened = 1;
            } else {
                error("Cannot open '$opt{patch}' for writing: $!");
                delete $opt{patch};
                $opt{changes} = 1;
                goto fallback;
            }
        } else {
            error("Cannot open '$opt{patch}' for writing: $!");
            delete $opt{patch};
            $opt{changes} = 1;
            goto fallback;
        }
    }
    mydiff(*PATCH, $filename, $c);
} else {
    fallback:
        info("Suggested changes:");

    }
mydiff(
	STDOUT, $filename, $c);
}

else {
    my $s = $file{changes} == 1 ? " 's";
    info("$file{changes} potentially required change$s detected");
}

} else {
    info("Looks good");
}

close PATCH if $patch_opened;

exit 0;

sub try_use {
    eval "use @_; return $@ eq "
}

sub mydiff {
    local *F = shift;
    my($file, $str) = @_;
    my $diff;

    if (exists $opt{diff}) {
        $diff = run_diff($opt{diff}, $file, $str);
    } else {
        if (!defined $diff and try_use('Text::Diff')) {
            $diff = Text::Diff::diff($file, $str, {STYLE => 'Unified'});
            $diff = <<HEADER . $diff;
            --- $file
            +++ $file.patched
            HEADER
        } else {
            $diff = run_diff('diff -u', $file, $str);
            $diff = run_diff('diff', $file, $str);
            $diff = run_diff('diff', $file, $str);
        } else {
            error("Cannot generate a diff. Please install Text::Diff or use --copy.");
        }
    }

    return $diff;
}

info("$file{changes} potentially required change$s detected");
return;
}

print F $diff;
}

sub run_diff
{
    my($prog, $file, $str) = @_;  
    my $tmp = 'dppptemp';
    my $suf = 'aaa';
    my $diff = "";
    local *F;

    while (-e "$tmp.$suf") { $suf++ }
    $tmp = "$tmp.$suf";

    if (open F, ">$tmp") {
        print F $str;
        close F;

        if (open F, "$prog $file $tmp |") {
            while (<F>) {
                s/Q$tmp\E/$file.patched/;
                $diff .= $_;
            }
            close F;
            unlink $tmp;
        }
        return $diff;
    }
    else {
        error("Cannot open '$tmp' for writing: "$!);
    }

    unlink $tmp;
}
else {
    return undef;
}

sub rec_depend
{
    my($func, $seen) = @_;  
    return () unless exists $depends{$func};
    $seen = {%{$seen||{}}};
    return () if $seen->{$func}++;
    my %s;
    grep !$s{$_}++, map { ($_, rec_depend($_, $seen)) } @{$depends{$func}};
}
sub parse_version
{
  my $ver = shift;

  if ($ver =~ /(^\d+\.(\d+)(\d+)$)/) {
    return ($1, $2, $3);
  }
  elsif ($ver !~ /^\d+\.[\d]+$/) {
    die "cannot parse version '$ver'
  }

  $ver =~ s/\_/\//g;
  $ver =~ s/$/000000/;

  my($r,$v,$s) = $ver =~ /(^\d+)(\d{3})(\d{3})/;
  $v = int $v;
  $s = int $s;

  if ($r < 5 || ($r == 5 && $v < 6)) {
    if ($s % 10) {
      die "cannot parse version '$ver'
    }
  }

  return ($r, $v, $s);
}

sub format_version
{
  my $ver = shift;

  $ver =~ s/$/000000/;
  my($r,$v,$s) = $ver =~ /(^\d+)(\d{3})(\d{3})/;

  $v = int $v;
  $s = int $s;

  if ($r < 5 || ($r == 5 && $v < 6)) {
    if ($s % 10) {
      die "invalid version '$ver'
    }
    $s /= 10;
  }

  $ver = sprintf "%d.%03d", $r, $v;
  $s > 0 && $ver .= sprintf "_%02d", $s;
return $ver;
}

return sprintf "%.d%.d%.d", $r, $v, $s;
}

sub info
{
$opt{quiet} and return;
print @_, "\n";
}

sub diag
{
$opt{quiet} and return;
$opt{diag} and print @_, "\n";
}

sub warning
{
$opt{quiet} and return;
print "*** \", @_, "\n";
}

sub error
{
print "*** ERROR: \", @_, "\n";
}

my %given_hints;
my %given_warnings;
sub hint
{
$opt{quiet} and return;
my $func = shift;
my $rv = 0;
if (exists $warnings{$func} && !$given_warnings{$func}++) {
  my $warn = $warnings{$func};
  $warn =~ s!^!*** !mg;
  print "*** WARNING: $func\n", $warn;
  $rv++;
}
if ($opt{hints} && exists $hints{$func} && !$given_hints{$func}++) {
  my $hint = $hints{$func};
  $hint =~ s/^/   /mg;
  print "   --- hint for $func ---\n", $hint;
}
sub usage
{
    my($usage) = do { local(@ARGV,$/)=($0); <> } =~ /^=head\d$HS+SYNOPSIS\s*^(.*?)\s*^=/ms;
    my %M = ( I => '*' );
    $usage =~ s/^\s*perl\s+\S+/^X $0/;
    $usage =~ s/\[(A-Z)]<(\[^>]+)>/^$M{$1}$2$M{$1}/g;

    print <<ENDUSAGE;
Usage: $usage
See perldoc $0 for details.
ENDUSAGE

exit 2;
}

sub strip
{
    my $self = do { local(@ARGV,$/)=($0); <> };
    my($copy) = $self =~ /^=head\d\s+COPYRIGHT\s*^(.*?)^=\w+/ms;
    $copy =~ s/^(?=\S+)/    /gms;
    $self =~ s/^$HS+Do NOT edit.*?(?=^-)/$copy/ms;
    $self =~ s/^SKIP.*(?=^__DATA__)/SKIP
    if (@ARGV && $ARGV[0] eq '--unstrip') {
        eval { require Devel::PPPort }; \$@ and die "Cannot require Devel::PPPort, please install.\n"
        if (eval \$Devel::PPPort::VERSION < \$VERSION) {
            die "\$0 was originally generated with Devel::PPPort \$VERSION.\n" . "Your Devel::PPPort is only version \$Devel::PPPort::VERSION.\n" . "Please install a newer version, or --unstrip will not work.\n"
        }
        Devel::PPPort::WriteFile($0);
        exit 0;
    }
    print <<END;
Sorry, but this is a stripped version of \$0.
To be able to use its original script and doc functionality,
please try to regenerate this file using:

\$^X \$0 --unstrip

END

open OUT, ">$0" or die "cannot strip $0: $!
";
print OUT "$pl$c"
;
exit 0;
}

__DATA__
*/

Found in path(s):
* /opt/cola/permits/1006412732_1635364628.78/0/perl-Filter-1.49-3.amzn2.0.2.src.rpm-cosi-expand-archive-SUtPG3gF/Filter-1.49.tar.gz-cosi-expand-archive-ew9aGz7Z/Filter-1.49/Call/ppport.h

No license file was found, but licenses were detected in source scan.

Source Filters

Version 1.49

2013-04-01 rurban

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modify it under the same terms as Perl itself.

DESCRIPTION
----------

This distribution consists of a number of Source Filters.

For more details see the pod documentation embedded in the .pm files.

If you intend using the Filter::Util::Call functionality, I would strongly
recommend that you check out Damian Conway’s excellent Filter::Simple
module. Damian's module provides a much cleaner interface than Filter::Util::Call. Although it doesn't allow the fine control that Filter::Util::Call does, it should be adequate for the majority of applications. It's available at

http://search.cpan.org/dist/Filter-Simple/

PREREQUISITES

Before you can build the Source Filters you need to have the following installed on your system:

* Perl 5.005 or better. 5.6.0 or better is recommended for Win32.

If your Perl is less than version 5.004_55, the "order" test harness will be skipped.

BUILDING THE MODULES

Assuming you have met all the prerequisites, building the modules should be relatively straightforward.

The modules can now be built using this sequence of commands:

perl Makefile.PL
make
make test

The filters have been successfully built and tested on the following systems (at least):

linux (gcc or clang)
cygwin 1.7
mingw strawberry 5.14
SunOS 4.1.3 (Sun C compiler & gcc 2.7.2.3)
Solaris 2.3 (Sun C Compiler)
irix 5.3
irix 6.x
Windows XP (Visual C++ 6.0)

On Windows tr.exe and cpp.exe should be really the gnu/mingw tools in the path for the testsuite to pass successfully.

INSTALLATION

-----------
make install

UPDATES
-------

The most recent version of the Filters is always available at

http://www.cpan.org/modules/by-module/Filter

Found in path(s):
* /opt/cola/permits/1006412732_1635364628.78/0/perl-Filter-1.49-3.amzn2.0.2.src.rpm-cosi-expand-archive-SUtPG3gF/Filter-1.49.tar.gz-cosi-expand-archive-ew9aGz7Z/Filter-1.49/README
No license file was found, but licenses were detected in source scan.

License:    GPL+ or Artistic

Found in path(s):
* /opt/cola/permits/1006412732_1635364628.78/0/perl-Filter-1.49-3.amzn2.0.2.src.rpm-cosi-expand-archive-SUtPG3gF/perl-Filter.spec
No license file was found, but licenses were detected in source scan.

=head1 NAME

perlfilter - Source Filters

=head1 DESCRIPTION

This article is about a little-known feature of Perl called
I<source filters>. Source filters alter the program text of a module
before Perl sees it, much as a C preprocessor alters the source text of
a C program before the compiler sees it. This article tells you more
about what source filters are, how they work, and how to write your
own.

The original purpose of source filters was to let you encrypt your
program source to prevent casual piracy. This isn't all they can do, as
you'll soon learn. But first, the basics.

=head1 CONCEPTS

Before the Perl interpreter can execute a Perl script, it must first
read it from a file into memory for parsing and compilation. If that
script itself includes other scripts with a C<use> or C<require>
statement, then each of those scripts will have to be read from their
respective files as well.

Now think of each logical connection between the Perl parser and an
individual file as a <source stream>. A source stream is created when the Perl parser opens a file, it continues to exist as the source code is read into memory, and it is destroyed when Perl is finished parsing the file. If the parser encounters a <require> or <use> statement in a source stream, a new and distinct stream is created just for that file.

The diagram below represents a single source stream, with the flow of source from a Perl script file on the left into the Perl parser on the right. This is how Perl normally operates.

file -------> parser

There are two important points to remember:

=item 1.

Although there can be any number of source streams in existence at any given time, only one will be active.

=item 2.

Every source stream is associated with only one file.

=back

A source filter is a special kind of Perl module that intercepts and modifies a source stream before it reaches the parser. A source filter changes our diagram like this:

file ----> filter ----> parser

If that doesn't make much sense, consider the analogy of a command pipeline. Say you have a shell script stored in the compressed file <trial.gz>. The simple pipeline command below runs the script without needing to create a temporary file to hold the uncompressed file.

```
gunzip -c trial.gz | sh
```

In this case, the data flow from the pipeline can be represented as follows:

```
trial.gz ----> gunzip ----> sh
```

With source filters, you can store the text of your script compressed and use a source filter to uncompress it for Perl's parser:
So how do you use a source filter in a Perl script? Above, I said that a source filter is just a special kind of module. Like all Perl modules, a source filter is invoked with a use statement.

Say you want to pass your Perl source through the C preprocessor before execution. As it happens, the source filters distribution comes with a C preprocessor filter module called Filter::cpp.

Below is an example program, C<cpp_test>, which makes use of this filter. Line numbers have been added to allow specific lines to be referenced easily.

```
1: use Filter::cpp;
2: #define TRUE 1
3: $a = TRUE;
4: print "a = $a\n";
```

When you execute this script, Perl creates a source stream for the file. Before the parser processes any of the lines from the file, the source stream looks like this:

```
cpp_test ---------> parser
```

Line 1, C<use Filter::cpp>, includes and installs the C<cpp> filter module. All source filters work this way. The use statement is compiled and executed at compile time, before any more of the file is read, and it attaches the cpp filter to the source stream behind the scenes. Now the data flow looks like this:

```
cpp_test ----> cpp filter ----> parser
```

As the parser reads the second and subsequent lines from the source stream, it feeds those lines through the C<cpp> source filter before processing them. The C<cpp> filter simply passes each line through the real C preprocessor. The output from the C preprocessor is then inserted back into the source stream by the filter.

```
c->cpp--.
 |  |
 |  |
 |  `<-'
cpp_test ----> cpp filter ----> parser
```
The parser then sees the following code:

```perl
use Filter::cpp;
$a = 1;
print "a = \$a\n";
```

Let's consider what happens when the filtered code includes another module with use:

1: use Filter::cpp;
2: #define TRUE 1
3: use Fred;
4: $a = TRUE;
5: print "a = $a\n";

The C<cpp> filter does not apply to the text of the Fred module, only to the text of the file that used it (C<cpp_test>). Although the use statement on line 3 will pass through the cpp filter, the module that gets included (C<Fred>) will not. The source streams look like this after line 3 has been parsed and before line 4 is parsed:

```
cpp_test ---> cpp filter ---> parser (INACTIVE)
Fred.pm ----> parser
```

As you can see, a new stream has been created for reading the source from C<Fred.pm>. This stream will remain active until all of C<Fred.pm> has been parsed. The source stream for C<cpp_test> will still exist, but is inactive. Once the parser has finished reading Fred.pm, the source stream associated with it will be destroyed. The source stream for C<cpp_test> then becomes active again and the parser reads line 4 and subsequent lines from C<cpp_test>.

You can use more than one source filter on a single file. Similarly, you can reuse the same filter in as many files as you like.

For example, if you have a uuencoded and compressed source file, it is possible to stack a uudecode filter and an uncompression filter like this:

```perl
use Filter::uudecode; use Filter::uncompress;
M'XL("H<US4"V9I:F%L')Q:>7/:11:<_>_.I3=&E=%:F*1"T?22Q/
M6]9*<IQCO*XFT"0[PL%%Y+IG?WN^ZYN-$J[,JES,20/?K=_]
```

... 

Once the first line has been processed, the flow will look like this:

```
file ---> uudecode ---> uncompress ---> parser
```
Data flows through filters in the same order they appear in the source file. The uudecode filter appeared before the uncompress filter, so the source file will be uuencoded before it's uncompressed.

=head1 WRITING A SOURCE FILTER

There are three ways to write your own source filter. You can write it in C, use an external program as a filter, or write the filter in Perl. I won't cover the first two in any great detail, so I'll get them out of the way first. Writing the filter in Perl is most convenient, so I'll devote the most space to it.

=head1 WRITING A SOURCE FILTER IN C

The first of the three available techniques is to write the filter completely in C. The external module you create interfaces directly with the source filter hooks provided by Perl.

The advantage of this technique is that you have complete control over the implementation of your filter. The big disadvantage is the increased complexity required to write the filter - not only do you need to understand the source filter hooks, but you also need a reasonable knowledge of Perl guts. One of the few times it is worth going to this trouble is when writing a source scrambler. The C<decrypt> filter (which unscrambles the source before Perl parses it) included with the source filter distribution is an example of a C source filter (see Decryption Filters, below).

=over 5

=item B<Decryption Filters>

All decryption filters work on the principle of "security through obscurity." Regardless of how well you write a decryption filter and how strong your encryption algorithm is, anyone determined enough can retrieve the original source code. The reason is quite simple - once the decryption filter has decrypted the source back to its original form, fragments of it will be stored in the computer's memory as Perl parses it. The source might only be in memory for a short period of time, but anyone possessing a debugger, skill, and lots of patience can eventually reconstruct your program.

That said, there are a number of steps that can be taken to make life difficult for the potential cracker. The most important: Write your decryption filter in C and statically link the decryption module into
the Perl binary. For further tips to make life difficult for the potential cracker, see the file I<decrypt.pm> in the source filters distribution.

=head1 CREATING A SOURCE FILTER AS A SEPARATE EXECUTABLE

An alternative to writing the filter in C is to create a separate executable in the language of your choice. The separate executable reads from standard input, does whatever processing is necessary, and writes the filtered data to standard output. C<Filter::cpp> is an example of a source filter implemented as a separate executable - the executable is the C preprocessor bundled with your C compiler.

The source filter distribution includes two modules that simplify this task: C<Filter::exec> and C<Filter::sh>. Both allow you to run any external executable. Both use a coprocess to control the flow of data into and out of the external executable. (For details on coprocesses, see Stephens, W.R., "Advanced Programming in the UNIX Environment." Addison-Wesley, ISBN 0-210-56317-7, pages 441-445.) The difference between them is that C<Filter::exec> spawns the external command directly, while C<Filter::sh> spawns a shell to execute the external command. (Unix uses the Bourne shell; NT uses the cmd shell.) Spawning a shell allows you to make use of the shell metacharacters and redirection facilities.

Here is an example script that uses C<Filter::sh>:

```perl
use Filter::sh 'tr XYZ PQR';
$a = 1;
print "XYZ a = $a\n";
```

The output you'll get when the script is executed:

```
PQR a = 1
```

Writing a source filter as a separate executable works fine, but a small performance penalty is incurred. For example, if you execute the small example above, a separate subprocess will be created to run the Unix C<tr> command. Each use of the filter requires its own subprocess. If creating subprocesses is expensive on your system, you might want to consider one of the other options for creating source filters.

=head1 WRITING A SOURCE FILTER IN PERL

The easiest and most portable option available for creating your own source filter is to write it completely in Perl. To distinguish this
from the previous two techniques, I'll call it a Perl source filter.

To help understand how to write a Perl source filter we need an example to study. Here is a complete source filter that performs rot13 decoding. (Rot13 is a very simple encryption scheme used in Usenet postings to hide the contents of offensive posts. It moves every letter forward thirteen places, so that A becomes N, B becomes O, and Z becomes M.)

```perl
package Rot13;

use Filter::Util::Call;

sub import {
    my ($type) = @_;        
    my ($ref) = [];         
    filter_add(bless $ref);
}

sub filter {
    my ($self) = @_;        
    my ($status);

    tr/n-za-mN-ZA-M/a-zA-Z/  
    if ($status = filter_read()) > 0;
    $status;
}

1;
```

All Perl source filters are implemented as Perl classes and have the same basic structure as the example above.

First, we include the `Filter::Util::Call` module, which exports a number of functions into your filter's namespace. The filter shown above uses two of these functions, `filter_add()` and `filter_read()`.

Next, we create the filter object and associate it with the source stream by defining the `import` function. If you know Perl well enough, you know that `import` is called automatically every time a module is included with a use statement. This makes `import` the ideal place to both create and install a filter object.

In the example filter, the object (`$ref`) is blessed just like any other Perl object. Our example uses an anonymous array, but this isn't a requirement. Because this example doesn't need to store any context
information, we could have used a scalar or hash reference just as well. The next section demonstrates context data.

The association between the filter object and the source stream is made with the C<filter_add()> function. This takes a filter object as a parameter (C<$ref> in this case) and installs it in the source stream.

Finally, there is the code that actually does the filtering. For this type of Perl source filter, all the filtering is done in a method called C<filter()> . (It is also possible to write a Perl source filter using a closure. See the C<Filter::Util::Call> manual page for more details.) It's called every time the Perl parser needs another line of source to process. The C<filter()> method, in turn, reads lines from the source stream using the C<filter_read()> function.

If a line was available from the source stream, C<filter_read()> returns a status value greater than zero and appends the line to C<$_.>  A status value of zero indicates end-of-file, less than zero means an error. The filter function itself is expected to return its status in the same way, and put the filtered line it wants written to the source stream in C<$_.>  The use of C<$_.> accounts for the brevity of most Perl source filters.

In order to make use of the rot13 filter we need some way of encoding the source file in rot13 format. The script below, C<mkrot13>, does just that.

die "usage mkrot13 filename\n" unless @ARGV;
my $in = $ARGV[0];
my $out = "$in.tmp ";
open(IN, "<$in") or die "Cannot open file $in: $!\n"
;
open(OUT, "$out") or die "Cannot open file $out: $!\n"
;

print OUT "use Rot13; \n"
while (<IN>) {
    tr/a-zA-Z/n-za-mN-ZA-M/;
    print OUT;
}

close IN;
close OUT;
unlink $in;
rename $out, $in;

If we encrypt this with C<mkrot13>: 

    print " hello fred \n";}
the result will be this:

use Rot13;
    cevag "uryyb serq\a";

Running it produces this output:

    hello fred

=head1 USING CONTEXT: THE DEBUG FILTER

The rot13 example was a trivial example. Here's another demonstration that shows off a few more features.

Say you wanted to include a lot of debugging code in your Perl script during development, but you didn't want it available in the released product. Source filters offer a solution. In order to keep the example simple, let's say you wanted the debugging output to be controlled by an environment variable, C<DEBUG>. Debugging code is enabled if the variable exists, otherwise it is disabled.

Two special marker lines will bracket debugging code, like this:

    ## DEBUG_BEGIN
    if ($year > 1999) {
        warn "Debug: millennium bug in year $year\n";
    }
    ## DEBUG_END

The filter ensures that Perl parses the code between the <DEBUG_BEGIN> and C<DEBUG_END> markers only when the C<DEBUG> environment variable exists. That means that when C<DEBUG> does exist, the code above should be passed through the filter unchanged. The marker lines can also be passed through as-is, because the Perl parser will see them as comment lines. When C<DEBUG> isn't set, we need a way to disable the debug code. A simple way to achieve that is to convert the lines between the two markers into comments:

    ## DEBUG_BEGIN
    #if ($year > 1999) {
    #    warn "Debug: millennium bug in year $year\n";
    #}
    ## DEBUG_END

Here is the complete Debug filter:

    package Debug;
use strict;
use warnings;
use Filter::Util::Call;

use constant TRUE => 1;
use constant FALSE => 0;

sub import {
    my ($type) = @_; 
    my (%context) = ( 
        Enabled => defined $ENV{DEBUG},
        InTraceBlock => FALSE,
        Filename => (caller)[1],
        LineNo => 0,
        LastBegin => 0,
    );
    filter_add(bless \%context);
}

sub Die {
    my ($self) = shift;
    my ($message) = shift;
    my ($line_no) = shift || $self->{LastBegin};
    die "$message at $self->{Filename} line $line_no\n"
}

sub filter {
    my ($self) = @_; 
    my ($status);
    $status = filter_read();
    ++ $self->{LineNo};

    # deal with EOF/error first
    if ($status <= 0) {
        $self->Die("DEBUG_BEGIN has no DEBUG_END")
        if $self->{InTraceBlock};
        return $status;
    }

    if ($self->{InTraceBlock}) {
        if (/\s*##\s*DEBUG_BEGIN/ ) {
            $self->Die("Nested DEBUG_BEGIN", $self->{LineNo})
        } elsif (/\s*##\s*DEBUG_END/) {
            $self->{InTraceBlock} = FALSE;
        }

        # comment out the debug lines when the filter is disabled
        s/^/#/ if ! $self->{Enabled};
    }
} elsif ( /^\s*##\s*DEBUG_BEGIN/ ) {
$self->{InTraceBlock} = TRUE;
$self->{LastBegin} = $self->{LineNo};
} elsif ( /^\s*##\s*DEBUG_END/ ) {
$self->Die("DEBUG_END has no DEBUG_BEGIN", $self->{LineNo});
}
return $status;
}
1;
The big difference between this filter and the previous example is the
use of context data in the filter object. The filter object is based on
a hash reference, and is used to keep various pieces of context
information between calls to the filter function. All but two of the
hash fields are used for error reporting. The first of those two,
Enabled, is used by the filter to determine whether the debugging code
should be given to the Perl parser. The second, InTraceBlock, is true
when the filter has encountered a C<DEBUG_BEGIN> line, but has not yet
encountered the following C<DEBUG_END> line.
If you ignore all the error checking that most of the code does, the
essence of the filter is as follows:
sub filter {
my ($self) = @_;
my ($status);
$status = filter_read();
# deal with EOF/error first
return $status if $status <= 0;
if ($self->{InTraceBlock}) {
if (/^\s*##\s*DEBUG_END/) {
$self->{InTraceBlock} = FALSE
}
# comment out debug lines when the filter is disabled
s/^/#/ if ! $self->{Enabled};
} elsif ( /^\s*##\s*DEBUG_BEGIN/ ) {
$self->{InTraceBlock} = TRUE;
}
return $status;
}
Be warned: just as the C-preprocessor doesn't know C, the Debug filter
doesn't know Perl. It can be fooled quite easily:
print <<EOM;

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Such things aside, you can see that a lot can be achieved with a modest amount of code.

=head1 CONCLUSION

You now have a better understanding of what a source filter is, and you might even have a possible use for them. If you feel like playing with source filters but need a bit of inspiration, here are some extra features you could add to the Debug filter.

First, an easy one. Rather than having debugging code that is all-or-nothing, it would be much more useful to be able to control which specific blocks of debugging code get included. Try extending the syntax for debug blocks to allow each to be identified. The contents of the C<$DEBUG$> environment variable can then be used to control which blocks get included.

Once you can identify individual blocks, try allowing them to be nested. That isn't difficult either.

Here is an interesting idea that doesn't involve the Debug filter. Currently Perl subroutines have fairly limited support for formal parameter lists. You can specify the number of parameters and their type, but you still have to manually take them out of the C<$@$> array yourself. Write a source filter that allows you to have a named parameter list. Such a filter would turn this:

```perl
sub MySub ($first, $second, @rest) { ... }
```

into this:

```perl
sub MySub($$@) {  
    my ($first) = shift;
    my ($second) = shift;
    my (@rest) = @_;  
    ...
}
```

Finally, if you feel like a real challenge, have a go at writing a full-blown Perl macro preprocessor as a source filter. Borrow the useful features from the C preprocessor and any other macro processors you know. The tricky bit will be choosing how much knowledge of Perl's syntax you want your filter to have.
Some source filters use the C<DATA> handle to read the calling program. When using these source filters you cannot rely on this handle, nor expect any particular kind of behavior when operating on it. Filters based on Filter::Util::Call (and therefore Filter::Simple) do not alter the C<DATA> filehandle.

=head1 REQUIREMENTS

The Source Filters distribution is available on CPAN, in

    CPAN/modules/by-module/Filter

Starting from Perl 5.8 Filter::Util::Call (the core part of the Source Filters distribution) is part of the standard Perl distribution. Also included is a friendlier interface called Filter::Simple, by Damian Conway.

=head1 AUTHOR

Paul Marquess E<lt>Paul.Marquess@btinternet.comE<gt>

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Found in path(s):
* /opt/cola/permits/1006412732_1635364628.78/0/perl-Filter-1.49-3.amzn2.0.2.src.rpm-cosi-expand-archive-SUtPG3gF/Filter-1.49.tar.gz-cosi-expand-archive-ew9aGz7Z/Filter-1.49/perlfilter.pod
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Found in path(s):
* /opt/cola/permits/1006412732_1635364628.78/0/perl-Filter-1.49-3.amzn2.0.2.src.rpm-cosi-expand-archive-SUtPG3gF/Filter-1.49.tar.gz-cosi-expand-archive-ew9aGz7Z/Filter-1.49/Call/Call.pm
No license file was found, but licenses were detected in source scan.

/*
 * Filename : Call.xs
 *
 * Author   : Paul Marquess
 * Date     : 2013-03-29 09:04:42 rurban
 * Version  : 1.49
 *
 * Copyright (c) 1995-2011 Paul Marquess. All rights reserved.
 * This program is free software; you can redistribute it and/or
 * modify it under the same terms as Perl itself.
 *
 */

Found in path(s):
* /opt/cola/permits/1006412732_1635364628.78/0/perl-Filter-1.49-3.amzn2.0.2.src.rpm-cosi-expand-archive-SUtPG3gF/Filter-1.49.tar.gz-cosi-expand-archive-ew9aGz7Z/Filter-1.49/Call/Call.xs

1.335 cdebconf 0.227

1.335.1 Available under license:
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* /opt/cola/permits/1126029915_1611547194.91/0/slf4j-api-1-7-25-sources-zip/org/slf4j/Logger.java
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*/
Index: tdbsa/tdb.c
===================================================================
--- tdbsa.orig/tdb.c
+++ tdbsa/tdb.c
@@ -4,11 +4,11 @@
 Last Changed Date: 2007-06-06 20:14:06 -0400 (Wed, 06 Jun 2007)
 */
 /*
- Unix SMB/CIFS implementation.
+ trivial database library - standalone version

- trivial database library - private includes
-
- Copyright (C) Andrew Tridgell              2005
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Theodore Ts'o
23-June-2007

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That's all there is to it!
This package was added to the e2fsprogs debian source package by Theodore Ts'o <tytso@mit.edu> on Sat Mar 15 15:33:37 EST 2003

It is part of the main e2fsprogs distribution, which can be found at:

http://sourceforge.net/projects/e2fsprogs

Upstream Author: Theodore Ts'o <tytso@mit.edu>

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This is the Debian GNU/Linux prepackaged version of the ss
command-line interface parsing library. It is currently
distributed together with the EXT2 file system utilities, which are
otherwise packaged as "e2fsprogs".

This package was put together by Yann Dirson <dirson@debian.org>,
from sources obtained from a mirror of:
tsx-11.mit.edu:/pub/linux/packages/ext2fs/

From the original distribution:

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# This is a Makefile stub which handles the creation of BSD shared libraries.

# In order to use this stub, the following makefile variables must be defined.

# BSDLIB_VERSION = 1.0
# BSDLIB_IMAGE = libce
# BSDLIB_MYDIR = et
# BSDLIB_INSTALL_DIR = $(SHLIBDIR)

all:: image

real-subdirs:: Makefile
@echo "MKDIR pic"
@mkdir -p pic

BSD_LIB = $(BSDLIB_IMAGE).so.$(BSDLIB_VERSION)
BSDLIB_PIC_FLAG = -fpic

image:$(BSD_LIB)

$(BSD_LIB): $(OBJS)
(cd pic; ld -Bshareable -o $(BSD_LIB) $(LDFLAGS_SHLIB) $(OBJS))
$(MV) pic/$(BSD_LIB) .
$(RM) -f ../$(BSD_LIB)
(cd ..; $(LN) $(LINK_BUILD_FLAGS) `echo $(my_dir) | sed -e 's;lib/;;'"/$(BSD_LIB) $(BSD_LIB))

install-shlibs install:: $(BSD_LIB)
@echo "INSTALL_PROGRAM $(BSDLIB_INSTALL_DIR)/$(BSD_LIB)"
@$(INSTALL_PROGRAM) $(BSD_LIB) 
$(DESTDIR)$(BSDLIB_INSTALL_DIR)/$(BSD_LIB)
@-$(LDCONFIG)

install-strip: install

install-shlibs-strip: install-shlibs

uninstall-shlibs uninstall::
$(RM) -f $(DESTDIR)$(BSDLIB_INSTALL_DIR)/$(BSD_LIB)

clean::
$(RM) -rf pic
$(RM) -f $(BSD_LIB)
$(RM) -f ../$(BSD_LIB)
This is the Debian GNU/Linux prepackaged version of the Common Error
Description library. It is currently distributed together with the EXT2 file
system utilities, which are otherwise packaged as "e2fsprogs".

This package was put together by Yann Dirson <dirson@debian.org>,
from sources obtained from a mirror of:
tsx-11.mit.edu:/pub/linux/packages/ext2fs/

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Gadi Oxman, August 1995

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Protocol Buffers for Go with Gadgets

Go support for Protocol Buffers - Google's data interchange format

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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

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1.369 zlib 1.2.3

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/* zlib.h -- interface of the 'zlib' general purpose compression library
   version 1.1.4, March 11th, 2002

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The data format used by the zlib library is described by RFCs (Request for Comments) 1950 to 1952 in the files ftp://ds.internic.net/rfc/rfc1950.txt (zlib format), rfc1951.txt (deflate format) and rfc1952.txt (gzip format).

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This package was debianized by Russell Coker <russell@coker.com.au> on Fri, 20 Aug 2004 17:26:18 +1000.

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# A grammar to describe tree matching patterns.
# Not shown here:
# - 'TOKEN' stands for any token (leaf node)
# - 'any' stands for any node (leaf or interior)
# With 'any' we can still specify the sub-structure.

# The start symbol is 'Matcher'.

Matcher: Alternatives ENDMARKER

Alternatives: Alternative ('|' Alternative)*

Alternative: (Unit | NegatedUnit)+

Unit: [NAME '='] ( STRING [Repeater]  
    | NAME [Details] [Repeater]  
    | '(' Alternatives ')' [Repeater]  
    | '[' Alternatives ']'  
)

NegatedUnit: 'not' (STRING | NAME [Details] | '(' Alternatives '))

Repeater: '*' | '+' | '{' NUMBER [',' NUMBER]''}'

Details: '<' Alternatives '>

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* /opt/ws_local/PERMITS_SQL/1016069485_1591897890.69/0/python3-stdlib-extensions-3-6-9-orig-tar-bz2/python3-stdlib-extensions-3.7.5/3.7/Lib/lib2to3/fixes/fix_print.py
* /opt/ws_local/PERMITS_SQL/1016069485_1591897890.69/0/python3-stdlib-extensions-3-6-9-orig-tar-bz2/python3-stdlib-extensions-3.7.5/3.6/Lib/lib2to3/fixes/fix_apply.py
* /opt/ws_local/PERMITS_SQL/1016069485_1591897890.69/0/python3-stdlib-extensions-3-6-9-orig-tar-bz2/python3-stdlib-extensions-3.7.5/3.7/Lib/lib2to3/fixes/fix_has_key.py
* /opt/ws_local/PERMITS_SQL/1016069485_1591897890.69/0/python3-stdlib-extensions-3-6-9-orig-tar-bz2/python3-stdlib-extensions-3.7.5/3.8/Lib/lib2to3/fixes/fix_has_key.py
* /opt/ws_local/PERMITS_SQL/1016069485_1591897890.69/0/python3-stdlib-extensions-3-6-9-orig-tar-bz2/python3-stdlib-extensions-3.7.5/3.6/Lib/lib2to3/fixes/fix_repr.py
* /opt/ws_local/PERMITS_SQL/1016069485_1591897890.69/0/python3-stdlib-extensions-3-6-9-orig-tar-bz2/python3-stdlib-extensions-3.7.5/3.7/Lib/lib2to3/fixes/fix_repr.py
* /opt/ws_local/PERMITS_SQL/1016069485_1591897890.69/0/python3-stdlib-extensions-3-6-9-orig-tar-bz2/python3-stdlib-extensions-3.7.5/3.8/Lib/lib2to3/pytree.py
* /opt/ws_local/PERMITS_SQL/1016069485_1591897890.69/0/python3-stdlib-extensions-3-6-9-orig-tar-bz2/python3-stdlib-extensions-3.7.5/3.6/Lib/lib2to3/fixes/fix_exec.py
* /opt/ws_local/PERMITS_SQL/1016069485_1591897890.69/0/python3-stdlib-extensions-3-6-9-orig-tar-bz2/python3-stdlib-extensions-3.7.5/3.6/Lib/lib2to3/tokenize.py
* /opt/ws_local/PERMITS_SQL/1016069485_1591897890.69/0/python3-stdlib-extensions-3-6-9-orig-tar-bz2/python3-stdlib-extensions-3.7.5/3.7/Lib/lib2to3/tokenize.py
* /opt/ws_local/PERMITS_SQL/1016069485_1591897890.69/0/python3-stdlib-extensions-3-6-9-orig-tar-bz2/python3-stdlib-extensions-3.7.5/3.8/Lib/lib2to3/tokenize.py

1.376 pam 1.1.8-3.6
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1.377 grub-gfxpayload-lists 0.7

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1.378 e2fsprogs 1.44.1

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*/
Index: tdbsa/tdb.c

--- tdbsa.orig/tdb.c
+++ tdbsa/tdb.c
@@ -4,11 +4,11 @@
 Last Changed Date: 2007-06-06 20:14:06 -0400 (Wed, 06 Jun 2007)
 */
 /*
 - Unix SMB/CIFS implementation.
 + trivial database library - standalone version

 - trivial database library - private includes
 -
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Theodore Ts'o
23-June-2007

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<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

That's all there is to it!
This package was added to the e2fsprogs debian source package by Theodore Ts'o <tytso@mit.edu> on Sat Mar 15 15:33:37 EST 2003

It is part of the main e2fsprogs distribution, which can be found at:
http://sourceforge.net/projects/e2fsprogs

Upstream Author: Theodore Ts'o <tytso@mit.edu>

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This is the Debian GNU/Linux prepackaged version of the ss command-line interface parsing library. It is currently distributed together with the EXT2 file system utilities, which are otherwise packaged as "e2fsprogs".

This package was put together by Yann Dirson <dirson@debian.org>, from sources obtained from a mirror of:
tsx-11.mit.edu:/pub/linux/packages/ext2fs/

From the original distribution:

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# This is a Makefile stub which handles the creation of BSD shared libraries.
#
# In order to use this stub, the following makefile variables must be defined.
#
# BSDLIB_VERSION = 1.0
# BSDLIB_IMAGE = libce
# BSDLIB_MYDIR = et
# BSDLIB_INSTALL_DIR = $(SHLIBDIR)
#
all:: image

real-subdirs:: Makefile
@echo "MKDIR pic"
@mkdir -p pic

BSD_LIB = $(BSDLIB_IMAGE).so.$(BSDLIB_VERSION)
BSDLIB_PIC_FLAG = -fpic

image::$(BSD_LIB)

$(BSD_LIB): $(OBJS)
(cd pic; ld -Bshareable -o $(BSD_LIB) $(LDFLAGS_SHLIB) $(OBJS))
$(MV) pic/$(BSD_LIB) .
$(RM) -f ../$(BSD_LIB)
(cd ..; $(LN) $(LINK_BUILD_FLAGS) `echo $(my_dir) | sed -e 's;lib/;;'`/$(BSD_LIB) $(BSD_LIB))

install-shlibs install:: $(BSD_LIB)
@echo "INSTALL_PROGRAM $(BSDLIB_INSTALL_DIR)/$(BSD_LIB)"
@$(INSTALL_PROGRAM) $(BSD_LIB) \
$(DESTDIR)$(BSDLIB_INSTALL_DIR)/$(BSD_LIB)
@-$(LDCONFIG)

install-strip: install
install-shlibs-strip: install-shlibs

uninstall-shlibs uninstall::
$ (RM) - f $(DESTDIR)/$(BSDLIB_INSTALL_DIR)/$(BSD_LIB)

clean::
$ (RM) -rf pic
$ (RM) - f $(BSD_LIB)
$ (RM) - f ../$(BSD_LIB)
This is the Debian GNU/Linux prepackaged version of the Common Error
Description library. It is currently distributed together with the EXT2 file
system utilities, which are otherwise packaged as "e2fsprogs".

This package was put together by Yann Dirson <dirson@debian.org>,
from sources obtained from a mirror of:
tsx-11.mit.edu:/pub/linux/packages/ext2fs/

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Gadi Oxman, August 1995

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Jean-loup Gailly        Mark Adler
jloup@gzip.org          madler@alumni.caltech.edu

The following list of people, sorted by last name, have contributed code or patches to this implementation of sudo since I began maintaining it in 1993. This list is known to be incomplete--if you believe you should be listed, please send a note to sudo@sudo.ws.

Ackeret, Matt
Adler, Mark
Allbery, Russ
Anderson, Jamie
Andrew, Nick
Andric, Dimitry
Barron, Danny
Bates, Tom
Behan, Zdenk
Bellis, Ray
Benali, Elias
The following people have worked to translate sudo into other languages:

Blittermann, Mario
Bogusz, Jakub
Buó-ren, Lin
Casagrande, Milo
Castro, Felipe
Cho, Seong-ho
Chornoivan, Yuri
Díiguez, Francisco
Fontenelle, Rafael
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Wang, Wylmer

1.384 closure-compiler-externs v20170910

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Upstream-Name: Closure Compiler
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### 1.386 AWS-SDK-Go 1.30.5

#### 1.386.1 Available under license:

// Code generated by smithy-go-codegen DO NOT EDIT.

```go
define licensemanager

import {
  "context"
awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
"github.com/aws/aws-sdk-go-v2/aws/signer/v4"
"github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
"github.com/aws/smithy-go/middleware"
smithyhttp "github.com/aws/smithy-go/transport/http"
}

// Deletes the specified license.
func (c *Client) DeleteLicense(ctx context.Context, params *DeleteLicenseInput, optFns ...func(*Options)) (*DeleteLicenseOutput, error) {
  if params == nil {
    params = &DeleteLicenseInput{
  }

  result, metadata, err := c.invokeOperation(ctx, "DeleteLicense", params, optFns,
          addOperationDeleteLicenseMiddlewares)
  if err != nil {
    return nil, err
  }

  out := result.(*DeleteLicenseOutput)
  out.ResultMetadata = metadata
  return out, nil
}

type DeleteLicenseInput struct {

  // Amazon Resource Name (ARN) of the license.

  //
  // This member is required.
  LicenseArn *string

  // Current version of the license.

```
// This member is required.
SourceVersion *string

} type DeleteLicenseOutput struct {

// Date on which the license is deleted.
DeletionDate *string

// License status.
Status types.LicenseDeletionStatus

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

}

func addOperationDeleteLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
    err = stack.Serialize.Add(&awsAwsjson11_serializeOpDeleteLicense{}, middleware.After)
    if err != nil {
        return err
    }
    err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpDeleteLicense{}, middleware.After)
    if err != nil {
        return err
    }
    if err = addSetLoggerMiddleware(stack, options); err != nil {
        return err
    }
    if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
        return err
    }
    if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
        return err
    }
    if err = addResolveEndpointMiddleware(stack, options); err != nil {
        return err
    }
    if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
        return err
    }
    if err = addRetryMiddlewares(stack, options); err != nil {
        return err
    }
    if err = addHTTPSingerV4Middleware(stack, options); err != nil {
        return err
    }
    if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
        return err
    }
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
    return err
}
if err = addClientUserAgent(stack); err != nil {
    return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = addOpDeleteLicenseValidationMiddleware(stack); err != nil {
    return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opDeleteLicense(options.Region), middleware.Before); err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
return nil
}

func newServiceMetadataMiddleware_opDeleteLicense(region string) *awsmiddleware.RegisterServiceMetadata {
    return &awsmiddleware.RegisterServiceMetadata{
        Region:        region,
        ServiceID:     ServiceID,
        SigningName:   "license-manager",
        OperationName: "DeleteLicense",
    }
}

AWS SDK for Go
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// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
// Lists received licenses.
func (c *Client) ListReceivedLicenses(ctx context.Context, params *ListReceivedLicensesInput, optFns ...func(*Options)) (*ListReceivedLicensesOutput, error) {
    if params == nil {
        params = &ListReceivedLicensesInput{
    }

    result, metadata, err := c.invokeOperation(ctx, "ListReceivedLicenses", params, optFns, addOperationListReceivedLicensesMiddlewares)
    if err != nil {
        return nil, err
    }

    out := result.(*ListReceivedLicensesOutput)
    out.ResultMetadata = metadata
    return out, nil
}

type ListReceivedLicensesInput struct {

    // Filters to scope the results. The following filters are supported:
    //
    // *
    // ProductSKU
    //
    // * Status
    //
    // * KeyFingerprint
    //
    // * Issuer
    Filters []types.Filter

    // Amazon Resource Names (ARNs) of the licenses.
    LicenseArns []string

    // Maximum number of results to return in a single call.
    MaxResults *int32

    // Token for the next set of results.
    NextToken *string
type ListReceivedLicensesOutput struct {

    // Received license details.
    Licenses []types.GrantedLicense

    // Token for the next set of results.
    NextToken *string

    // Metadata pertaining to the operation's result.
    ResultMetadata middleware.Metadata
}

func addOperationListReceivedLicensesMiddlewares(stack *middleware.Stack, options Options) (err error) {
    err = stack.Serialize.Add(&awsAwsjson11_serializeOpListReceivedLicenses{}, middleware.After)
    if err != nil {
        return err
    }
    err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpListReceivedLicenses{}, middleware.After)
    if err != nil {
        return err
    }
    if err = addSetLoggerMiddleware(stack, options); err != nil {
        return err
    }
    if err = aws.middleware.AddClientRequestIDMiddleware(stack); err != nil {
        return err
    }
    if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
        return err
    }
    if err = addResolveEndpointMiddleware(stack, options); err != nil {
        return err
    }
    if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
        return err
    }
    if err = addRetryMiddlewares(stack, options); err != nil {
        return err
    }
    if err = addHTTPSignerV4Middleware(stack, options); err != nil {
        return err
    }
    if err = aws.middleware.AddRawResponseToMetadata(stack); err != nil {
        return err
    }
    if err = aws.middleware.AddRecordResponseTiming(stack); err != nil {
        return err
    }
}
func newServiceMetadataMiddleware_opListReceivedLicenses(region string) *awsmiddleware.RegisterServiceMetadata {
    return &awsmiddleware.RegisterServiceMetadata{
        Region:    region,
        ServiceID: ServiceID,
        SigningName: "license-manager",
        OperationName: "ListReceivedLicenses",
    }
}

// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import {
    "context"
    awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
    "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
    "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
    "github.com/aws/smithy-go/middleware"
    smithyhttp "github.com/aws/smithy-go/transport/http"
}
// Checks out the specified license.
func (c *Client) CheckoutLicense(ctx context.Context, params *CheckoutLicenseInput, optFns ...func(*Options)) (*CheckoutLicenseOutput, error) {
    if params == nil {
        params = &CheckoutLicenseInput{
    }

    result, metadata, err := c.invokeOperation(ctx, "CheckoutLicense", params, optFns,
addOperationCheckoutLicenseMiddlewares)
    if err != nil {
        return nil, err
    }

    out := result.(*CheckoutLicenseOutput)
    out.ResultMetadata = metadata
    return out, nil
}

type CheckoutLicenseInput struct {

    // Checkout type.
    //
    // This member is required.
    CheckoutType types.CheckoutType

    // Unique, case-sensitive identifier that you provide to ensure the idempotency of
    // the request.
    //
    // This member is required.
    ClientToken *string

    // License entitlements.
    //
    // This member is required.
    Entitlements []types.EntitlementData

    // Key fingerprint identifying the license.
    //
    // This member is required.
    KeyFingerprint *string

    // Product SKU.
    //
    // This member is required.
    ProductSKU *string

    // License beneficiary.
type CheckoutLicenseOutput struct {

    // Checkout type.
    CheckoutType types.CheckoutType

    // Allowed license entitlements.
    EntitlementsAllowed []types.EntitlementData

    // Date and time at which the license checkout expires.
    Expiration *string

    // Date and time at which the license checkout is issued.
    IssuedAt *string

    // License consumption token.
    LicenseConsumptionToken *string

    // Node ID.
    NodeId *string

    // Signed token.
    SignedToken *string

    // Metadata pertaining to the operation's result.
    ResultMetadata middleware.Metadata
}

func addOperationCheckoutLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
    if err != nil {
        return err
    }

    if err != nil {
        return err
    }

    if err = addSetLoggerMiddleware(stack, options); err != nil {
        return err
    }

    if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
        return err
    }
}

if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
    return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
    return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
    return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
    return err
}
if err = addHTTPSVerifierV4Middleware(stack, options); err != nil {
    return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
    return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
    return err
}
if err = addClientUserAgent(stack); err != nil {
    return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = addOpCheckoutLicenseValidationMiddleware(stack); err != nil {
    return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckoutLicense(options.Region), middleware.Before); err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
return nil
func newServiceMetadataMiddleware_opCheckoutLicense(region string) *awsmiddleware.RegisterServiceMetadata
{
    return &awsmiddleware.RegisterServiceMetadata{
        Region:        region,
        ServiceID:     ServiceID,
        SigningName:   "license-manager",
        OperationName: "CheckoutLicense",
    }
}

// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
    "context"
    awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
    "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
    "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
    "github.com/aws/smithy-go/middleware"
    smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Creates a license.
func (c *Client) CreateLicense(ctx context.Context, params *CreateLicenseInput, optFns ...func(*Options)) (*CreateLicenseOutput, error) 
{
    if params == nil {
        params = &CreateLicenseInput{
        }
    }

    result, metadata, err := c.invokeOperation(ctx, "CreateLicense", params, optFns, addOperationCreateLicenseMiddlewares)
    if err != nil {
        return nil, err
    }

    out := result.(*CreateLicenseOutput)
    out.ResultMetadata = metadata
    return out, nil
}

type CreateLicenseInput struct {

    // License beneficiary.
    //
    // This member is required.
    Beneficiary *string
// Unique, case-sensitive identifier that you provide to ensure the idempotency of
// the request.
//
// This member is required.
ClientToken *string

// Configuration for consumption of the license. Choose a provisional configuration
// for workloads running with continuous connectivity. Choose a borrow
// configuration for workloads with offline usage.
//
// This member is required.
ConsumptionConfiguration *types.ConsumptionConfiguration

// License entitlements.
//
// This member is required.
Entitlements []types.Entitlement

// Home Region for the license.
//
// This member is required.
HomeRegion *string

// License issuer.
//
// This member is required.
Issuer *types.Issuer

// License name.
//
// This member is required.
LicenseName *string

// Product name.
//
// This member is required.
ProductName *string

// Product SKU.
//
// This member is required.
ProductSKU *string

// Date and time range during which the license is valid, in ISO8601-UTC format.
//
// This member is required.
Validity *types.DatetimeRange
type CreateLicenseOutput struct {

        // Information about the license.
        LicenseMetadata []types.Metadata
    }

    // Amazon Resource Name (ARN) of the license.
    LicenseArn *string

    // License status.
    Status types.LicenseStatus

    // License version.
    Version *string

    // Metadata pertaining to the operation's result.
    ResultMetadata middleware.Metadata
}

func addOperationCreateLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
    if err != nil {
        return err
    }
    if err != nil {
        return err
    }
    if err = addSetLoggerMiddleware(stack, options); err != nil {
        return err
    }
    if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
        return err
    }
    if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
        return err
    }
    if err = addResolveEndpointMiddleware(stack, options); err != nil {
        return err
    }
    if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
        return err
    }
    if err = addRetryMiddlewares(stack, options); err != nil {
        return err
    }
    if err = addHTTPSingerV4Middleware(stack, options); err != nil {
        return err
    }
    return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
    return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
    return err
}
if err = addClientUserAgent(stack); err != nil {
    return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = addOpCreateLicenseValidationMiddleware(stack); err != nil {
    return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCreateLicense(options.Region),
    middleware.Before); err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
return nil
}

func newServiceMetadataMiddleware_opCreateLicense(region string) *awsmiddleware.RegisterServiceMetadata {
    return &awsmiddleware.RegisterServiceMetadata{
        Region:     region,
        ServiceID:  ServiceID,
        SigningName: "license-manager",
        OperationName: "CreateLicense",
    }
}

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package licensemanager


// Checks out the specified license for offline use.   func (c *Client) CheckoutBorrowLicense(ctx context.Context, params *CheckoutBorrowLicenseInput, optFns ...func(*Options)) (*CheckoutBorrowLicenseOutput, error) {   if params == nil {   params = &CheckoutBorrowLicenseInput{}  
   }   

   result, metadata, err := c.invokeOperation(ctx, "CheckoutBorrowLicense", params, optFns, addOperationCheckoutBorrowLicenseMiddlewares)   if err != nil {   return nil, err   }   

   return result, err
out := result.(*CheckoutBorrowLicenseOutput)
out.ResultMetadata = metadata
return out, nil
}

type CheckoutBorrowLicenseInput struct {

  // Unique, case-sensitive identifier that you provide to ensure the idempotency of
  // the request.
  //
  // This member is required.
  ClientToken *string

  // Digital signature method. The possible value is JSON Web Signature (JWS)
  // algorithm PS384. For more information, see RFC 7518 Digital Signature with
  //
  // This member is required.
  DigitalSignatureMethod types.DigitalSignatureMethod

  // License entitlements. Partial checkouts are not supported.
  //
  // This member is required.
  Entitlements []types.EntitlementData

  // Amazon Resource Name (ARN) of the license. The license must use the borrow
  // consumption configuration.
  //
  // This member is required.
  LicenseArn *string

  // Information about constraints.
  CheckoutMetadata []types.Metadata

  // Node ID.
  NodeId *string
}

type CheckoutBorrowLicenseOutput struct {

  // Information about constraints.
  CheckoutMetadata []types.Metadata

  // Allowed license entitlements.
  EntitlementsAllowed []types.EntitlementData

  // Date and time at which the license checkout expires.
  Expiration *string
// Date and time at which the license checkout is issued.
IssuedAt *string

// Amazon Resource Name (ARN) of the license.
LicenseArn *string

// License consumption token.
LicenseConsumptionToken *string

// Node ID.
NodeId *string

// Signed token.
SignedToken *string

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

func addOperationCheckoutBorrowLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
    if err != nil {
        return err
    }
    if err != nil {
        return err
    }
    if err = addSetLoggerMiddleware(stack, options); err != nil {
        return err
    }
    if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
        return err
    }
    if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
        return err
    }
    if err = addResolveEndpointMiddleware(stack, options); err != nil {
        return err
    }
    if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
        return err
    }
    if err = addRetryMiddlewares(stack, options); err != nil {
        return err
    }
    if err = addHTTPSignerV4Middleware(stack, options); err != nil {
        return err
    }
    return nil
}
return err 
} 
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil 
return err 
} 
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil 
return err 
} 
if err = addClientUserAgent(stack); err != nil 
return err 
} 
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil 
return err 
} 
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil 
return err 
} 
if err = addOpCheckoutBorrowLicenseValidationMiddleware(stack); err != nil 
return err 
} 
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckoutBorrowLicense(options.Region), middleware.Before); err != nil 
return err 
} 
if err = addRequestIDRetrieverMiddleware(stack); err != nil 
return err 
} 
if err = addResponseErrorMiddleware(stack); err != nil 
return err 
} 
if err = addRequestResponseLogging(stack, options); err != nil 
return err 
} 
return nil 
}

func newServiceMetadataMiddleware_opCheckoutBorrowLicense(region string) *awsmiddleware.RegisterServiceMetadata { 
return &awsmiddleware.RegisterServiceMetadata{
Region: region,
ServiceID: ServiceID,
SigningName: "license-manager",
OperationName: "CheckoutBorrowLicense",
}
}

// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager
import (  
"context"
awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
"github.com/aws/aws-sdk-go-v2/aws/signer/v4"
"github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
"github.com/aws/smithy-go/middleware"
smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Lists the licenses for your account.
func (c *Client) ListLicenses(ctx context.Context, params *ListLicensesInput, optFns ...func(*Options)) (*ListLicensesOutput, error) {
  if params == nil {
    params = &ListLicensesInput{}
  }

  result, metadata, err := c.invokeOperation(ctx, "ListLicenses", params, optFns,
addOperationListLicensesMiddlewares)
  if err != nil {
    return nil, err
  }

  out := result.(*ListLicensesOutput)
  out.ResultMetadata = metadata
  return out, nil
}

type ListLicensesInput struct {

  // Filters to scope the results. The following filters are supported:
  //
  // * 
  //  Beneficiary
  //
  // * ProductSKU
  //
  // * KeyFingerprint
  //
  // * Status
  Filters []types.Filter

  // Amazon Resource Names (ARNs) of the licenses.
  LicenseArns []string

  // Maximum number of results to return in a single call.
  MaxResults *int32
}
type ListLicensesOutput struct {

// License details.
Licenses []types.License

// Token for the next set of results.
NextToken *string

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata
}

func addOperationListLicensesMiddlewares(stack *middleware.Stack, options Options) (err error) {
    if err != nil {
        return err
    }
    if err != nil {
        return err
    }
    if err = addSetLoggerMiddleware(stack, options); err != nil {
        return err
    }
    if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
        return err
    }
    if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
        return err
    }
    if err = addResolveEndpointMiddleware(stack, options); err != nil {
        return err
    }
    if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
        return err
    }
    if err = addRetryMiddlewares(stack, options); err != nil {
        return err
    }
    if err = addHTTPSingerV4Middleware(stack, options); err != nil {
        return err
    }
    if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
        return err
    }
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
    return err
}
if err = addClientUserAgent(stack); err != nil {
    return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opListLicenses(options.Region), middleware.Before); err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
return nil

func newServiceMetadataMiddleware_opListLicenses(region string) *awsmiddleware.RegisterServiceMetadata {
    return &awsmiddleware.RegisterServiceMetadata{
        Region: region,
        ServiceID: ServiceID,
        SigningName: "license-manager",
        OperationName: "ListLicenses",
    }
}

// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
    "context"
    awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
    "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
    "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
    "github.com/aws/smithy-go/middleware"
    smithyhttp "github.com/aws/smithy-go/middleware"
// Gets detailed information about the specified license.
func (c *Client) GetLicense(ctx context.Context, params *GetLicenseInput, optFns ...func(*Options)) (*GetLicenseOutput, error) {
    if params == nil {
        params = &GetLicenseInput{
    }

    result, metadata, err := c.invokeOperation(ctx, "GetLicense", params, optFns, addOperationGetLicenseMiddlewares)
    if err != nil {
        return nil, err
    }

    out := result.(*GetLicenseOutput)
    out.ResultMetadata = metadata
    return out, nil
}

type GetLicenseInput struct {

    // Amazon Resource Name (ARN) of the license.

    // This member is required.
    LicenseArn *string

    // License version.
    Version *string

}

type GetLicenseOutput struct {

    // License details.
    License *types.License

    // Metadata pertaining to the operation's result.
    ResultMetadata middleware.Metadata
}

func addOperationGetLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
    if err != nil {
        return err
    }

    if err != nil {
        return err
    }
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
    return err
}
if err = awsmiddleware.AddClientRequestIMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
    return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
    return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
    return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
    return err
}
if err = addHTTPSInerV4Middleware(stack, options); err != nil {
    return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
    return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
    return err
}
if err = addClientUserAgent(stack); err != nil {
    return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = addOpGetLicenseValidationMiddleware(stack); err != nil {
    return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opGetLicense(options.Region), middleware.Before); err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
return nil

func newServiceMetadataMiddleware_opGetLicense(region string) *awsmiddleware.RegisterServiceMetadata {
    return &awsmiddleware.RegisterServiceMetadata{
        Region:        region,
        ServiceID:     ServiceID,
        SigningName:   "license-manager",
        OperationName: "GetLicense",
    }
}

// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
    "context"
    awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
    "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
    "github.com/aws/smithy-go/middleware"
    smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks in the specified license. Check in a license when it is no longer in use.
func (c *Client) CheckInLicense(ctx context.Context, params *CheckInLicenseInput, optFns ...func(*Options)) (*CheckInLicenseOutput, error) {
    if params == nil {
        params = &CheckInLicenseInput{
    }

    result, metadata, err := c.invokeOperation(ctx, "CheckInLicense", params, optFns,
        addOperationCheckInLicenseMiddlewares)
    if err != nil {
        return nil, err
    }

    out := result.(*CheckInLicenseOutput)
    out.ResultMetadata = metadata
    return out, nil
}

type CheckInLicenseInput struct {
    // License consumption token.
// This member is required.
LicenseConsumptionToken *string

// License beneficiary.
Beneficiary *string

} type CheckInLicenseOutput struct {
// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata
}

func addOperationCheckInLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckInLicense{}, middleware.After)
if err != nil {
return err
}
err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckInLicense{}, middleware.After)
if err != nil {
return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
return err
}
func newServiceMetadataMiddleware_opCheckInLicense(region string) *awsmiddleware.RegisterServiceMetadata
{
    return &awsmiddleware.RegisterServiceMetadata{
        Region:      region,
        ServiceID:   ServiceID,
        SigningName: "license-manager",
        OperationName: "CheckInLicense",
    }
}

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1.388 linux-kernel 4.19.65-2-1000

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1.391 qrencode 3.4.1-3.amzn2.0.2

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1.393 zlib 1.2.11
1.393.1 Available under license :

/* zlib.h -- interface of the 'zlib' general purpose compression library
version 1.2.11, January 15th, 2017

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Jean-loup Gailly        Mark Adler
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The data format used by the zlib library is described by RFCs (Request for
(zlib format), rfc1951 (deflate format) and rfc1952 (gzip format).
*/

1.394 jradius-extended 1.1.5
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1.399 pixman 0.34.0 1

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Name: custompalette
Columns: 4
#
 0 0 0   Index 3
 65 38 30  Index 4
 103 62 49  Index 6
 79 73 72   Index 7
 114 101 97  Index 8
 208 127 100  Index 9
 151 144 142  Index 10
 221 207 199  Index 11
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Name: badpalettefile
Columns: 4
#
0 0 0  Index 3
01234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901
34567890123456789
103 62 49   Index 6
79 73 72   Index 7
114 101 97   Index 8
208 127 100   Index 9
151 144 142   Index 10
221 207 199   Index 11

NotoNastaliqUrdu-Regular.ttf and NotoSansSymbols-Regular.ttf, from https://github.com/googlei18n/noto-fonts
NotoSans-Regular.ttf, from https://www.google.com/get/noto/
NotoColorEmoji.ttf, from https://github.com/googlefonts/noto-emoji
AdobeVFPrototype.ttf, from https://github.com/adobe-fonts/adobe-variable-font-prototype
TINY5x3GX.ttf, from http://velvetyne.fr/fonts/tiny
ArefRuqaa-Regular.ttf, from https://github.com/google/fonts/tree/master/ofl/arefruqaa
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Columns: 4
1.407 rsyslog 8.32.0

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/**
 * FactoryBean that obtains a WebSphere javax.management.MBeanServer
 * reference through WebSphere's proprietary AdminServiceFactory API,
 * available on WebSphere 5.1 and higher.
 *
 * Exposes the MBeanServer for bean references.
 * This FactoryBean is a direct alternative to MBeanServerFactoryBean,
 * which uses standard JMX 1.2 API to access the platform's MBeanServer.
 *
 * @author Juergen Hoeller
 * @author Rob Harrop
 * @since 2.0.3
 * @see com.ibm.websphere.management.AdminServiceFactory#getMBeanFactory()
 * @see com.ibm.websphere.management.MBeanFactory#getMBeanServer()
 * @see javax.management.MBeanServer
 * @see MBeanServerFactoryBean
 */

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* /opt/cola/permits/1136703039_1613865324.67/0/spring-context-3-0-5-release-sources-3.jar/org/springframework/jmx/export/assembler/MetadataMBeanInfoAssembler.java
* /opt/cola/permits/1136703039_1613865324.67/0/spring-context-3-0-5-release-sources-3.jar/org/springframework/context/expressions/StandardBeanExpressionResolver.java
* /opt/cola/permits/1136703039_1613865324.67/0/spring-context-3-0-5-release-sources-3.jar/org/springframework/context/support/ClassPathXmlApplicationContext.java
* /opt/cola/permits/1136703039_1613865324.67/0/spring-context-3-0-5-release-sources-3.jar/org/springframework/jmx/export/MBeanExporter.java
* /opt/cola/permits/1136703039_1613865324.67/0/spring-context-3-0-5-release-sources-3.jar/org/springframework/context/expressions/weaving/DefaultContextLoadTimeWeaver.java
* /opt/cola/permits/1136703039_1613865324.67/0/spring-context-3-0-5-release-sources-3.jar/org/springframework/validation/validation/beanvalidation/LocalValidatorFactoryBean.java

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1.414 gdbm 1.18.1

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1.415 perl-scalar-list-utils 1.27-248.amzn2.0.2

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=head1 NAME

List::Util::XS - Indicate if List::Util was compiled with a C compiler

=head1 SYNOPSIS

use List::Util::XS 1.20;

=head1 DESCRIPTION

C<List::Util::XS> can be used as a dependency to ensure List::Util was installed using a C compiler and that the XS version is installed.

During installation C<\$List::Util::XS::VERSION> will be set to C<undef> if the XS was not compiled.

Starting with release 1.23_03, Scalar-List-Util is B<always> using the XS implementation, but for backwards compatibility, we still ship the C<List::Util::XS> module which just loads C<List::Util>.

=head1 SEE ALSO

L<Scalar::Util>, L<List::Util>, L<List::MoreUtils>

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=cut

Found in path(s):
* /opt/cola/permits/1006413025_1635364630.4/0/perl-Scalar-List-Utils-1.27-248.amzn2.0.2.src.rpm-cosi-expand-archive-bJpWEofZ/Scalar-List-Utils-1.27.tar.gz-cosi-expand-archive-RrlPtT17/Scalar-List-Utils-
1.27/lib/List/Util/XS.pm
No license file was found, but licenses were detected in source scan.

Name: perl-Scalar-List-Utils
Version: 1.27
Release: 248% {?dist}.0.2
Summary: A selection of general-utility scalar and list subroutines
License: GPL+ or Artistic
Group: Development/Libraries
URL: http://search.cpan.org/dist/Scalar-List-Utils/
Source0: http://search.cpan.org/CPAN/authors/id/P/PE/PEVANS/Scalar-List-Utils-% {version}.tar.gz
BuildRequires: perl
BuildRequires: perl(base)
BuildRequires: perl(Carp)
BuildRequires: perl(Config)
BuildRequires: perl(constant)
BuildRequires: perl(Exporter)
BuildRequires: perl(ExtUtils::MakeMaker)
BuildRequires: perl(File::Spec)
BuildRequires: perl(IO::File)
BuildRequires: perl(IO::Handle)
BuildRequires: perl(Math::BigInt)
BuildRequires: perl(overload)
BuildRequires: perl(strict)
BuildRequires: perl(Symbol)
BuildRequires: perl(Test::More)
BuildRequires: perl(threads)
BuildRequires: perl(threads::shared)
BuildRequires: perl(Tie::Handle)
BuildRequires: perl(Tie::Scalar)
BuildRequires: perl(Tie::StdScalar)
BuildRequires: perl(vars)
BuildRequires: perl(warnings)
BuildRequires: perl(XSLoader)
Requires: perl(:MODULE_COMPAT_%(eval "\"\%{__perl} -V:version\"\"; echo $version))
Requires: perl(Carp)

% {?perl_default_filter}

%description
This package contains a selection of subroutines that people have expressed
would be nice to have in the perl core, but the usage would not really be
high enough to warrant the use of a keyword, and the size so small such
that being individual extensions would be wasteful.

%prep
%setup -q -n Scalar-List-Utils-% {version}
%build
%__perl Makefile.PL INSTALLDIRS=vendor OPTIMIZE="%{optflags}"
make %{?_smp_mflags}

%install
make pure_install DESTDIR=%{buildroot}

find %{buildroot} -type f -name .packlist -exec rm -f {} \;
find %{buildroot} -type f -name '*.bs' -size 0 -exec rm -f {} \;

%{_fixperms} %{buildroot}/*

%check
make test

%files
%doc Changes README
%{perl_vendorarch}/auto/*
%{perl_vendorarch}/List*
%{perl_vendorarch}/Scalar*
%{_mandir}/man3/*

%changelog
* Fri Jan 24 2014 Daniel Mach <dmach@redhat.com> - 1.27-248
  - Mass rebuild 2014-01-24

* Fri Dec 27 2013 Daniel Mach <dmach@redhat.com> - 1.27-247
  - Mass rebuild 2013-12-27

* Wed Jul 31 2013 Petr Pisar <ppisar@redhat.com> - 1.27-246
  - Specify all dependencies

* Fri Jan 04 2013 Iain Arnell <iarnell@gmail.com> 1.27-245
  - update to latest upstream version

* Fri Aug 17 2012 Petr Pisar <ppisar@redhat.com> - 1.25-240
  - Increase release to replace perl sub-package (bug #848961)

* Thu Aug 16 2012 Petr Pisar <ppisar@redhat.com> - 1.25-4
  - Correct dependencies

* Tue Aug 14 2012 Daniel Mach <dmach@redhat.com> - 1.25-3.1
  - Rebuild for perl 5.16

* Fri Jul 20 2012 Fedora Release Engineering <rel-eng@lists.fedoraproject.org> - 1.25-3
  - Rebuilt for https://fedoraproject.org/wiki/Fedora_18_Mass_Rebuild

* Wed Jun 06 2012 Petr Pisar <ppisar@redhat.com> - 1.25-2
- Perl 5.16 rebuild

* Sun Mar 25 2012 Iain Arnell <iarnell@gmail.com> 1.25-1
- update to latest upstream version

* Fri Jan 13 2012 Fedora Release Engineering <rel-eng@lists.fedoraproject.org> - 1.23-3
- Rebuilt for https://fedoraproject.org/wiki/Fedora_17_Mass_Rebuild

* Fri Jun 17 2011 Marcela Malov <mmaslano@redhat.com> - 1.23-2
- Perl mass rebuild

* Mon Feb 21 2011 Iain Arnell <iarnell@gmail.com> 1.23-1
- Specfile autogenerated by cpanspec 1.79.

Found in path(s):

No license file was found, but licenses were detected in source scan.

/* Copyright (c) 1997-2000 Graham Barr <gbarr@pobox.com>. All rights reserved.
* This program is free software; you can redistribute it and/or
* modify it under the same terms as Perl itself.
*/

Found in path(s):

No license file was found, but licenses were detected in source scan.

# Copyright (c) 1997-2009 Graham Barr <gbarr@pobox.com>. All rights reserved.
# This program is free software; you can redistribute it and/or
# modify it under the same terms as Perl itself.
=head1 NAME

List::Util - A selection of general-utility list subroutines

=head1 SYNOPSIS

use List::Util qw(first max maxstr min minstr reduce shuffle sum);

=head1 DESCRIPTION

C<List::Util> contains a selection of subroutines that people have expressed would be nice to have in the perl core, but the usage would not really be high enough to warrant the use of a keyword, and the size so small such that being individual extensions would be wasteful.

By default C<List::Util> does not export any subroutines. The
subroutines defined are

=over 4

=item first BLOCK LIST

Similar to C<grep> in that it evaluates BLOCK setting C<$_> to each element of LIST in turn. C<first> returns the first element where the result from BLOCK is a true value. If BLOCK never returns true or LIST was empty then C<undef> is returned.

```
$foo = first { defined($_) } @list  # first defined value in @list
$foo = first { $_ > $value } @list  # first value in @list which
    # is greater than $value
```

This function could be implemented using C<reduce> like this

```
$foo = reduce { defined($a) ? $a : wanted($b) ? $b : undef } undef, @list
```

for example wanted() could be defined() which would return the first defined value in @list

=item max LIST

Returns the entry in the list with the highest numerical value. If the list is empty then C<undef> is returned.

```
$foo = max 1..10             # 10
$foo = max 3,9,12            # 12
$foo = max @bar, @baz       # whatever
```

This function could be implemented using C<reduce> like this

```
$foo = reduce { $a > $b ? $a : $b } 1..10
```

=item maxstr LIST

Similar to C<max>, but treats all the entries in the list as strings and returns the highest string as defined by the C<gt> operator. If the list is empty then C<undef> is returned.

```
$foo = maxstr 'A'..'Z'        # 'Z'
$foo = maxstr "hello","world" # "world"
$foo = maxstr @bar, @baz     # whatever
```

This function could be implemented using C<reduce> like this

```
$foo = reduce { $a gt $b ? $a : $b } 'A'..'Z'
```
=item min LIST

Similar to C<max> but returns the entry in the list with the lowest numerical value. If the list is empty then C<undef> is returned.

```
$foo = min 1..10       # 1
$foo = min 3,9,12      # 3
$foo = min @bar, @baz  # whatever
```

This function could be implemented using C<reduce> like this

```
$foo = reduce { $a < $b ? $a : $b } 1..10
```

=item minstr LIST

Similar to C<min>, but treats all the entries in the list as strings and returns the lowest string as defined by the C<lt> operator. If the list is empty then C<undef> is returned.

```
$foo = minstr 'A'..'Z'   # 'A'
$foo = minstr "hello","world"  # "hello"
$foo = minstr @bar, @baz  # whatever
```

This function could be implemented using C<reduce> like this

```
$foo = reduce { $a lt $b ? $a : $b } 'A'..'Z'
```

=item reduce BLOCK LIST

Reduces LIST by calling BLOCK, in a scalar context, multiple times, setting C<$a> and C<$b> each time. The first call will be with C<$a> and C<$b> set to the first two elements of the list, subsequent calls will be done by setting C<$a> to the result of the previous call and C<$b> to the next element in the list.

Returns the result of the last call to BLOCK. If LIST is empty then C<undef> is returned. If LIST only contains one element then that element is returned and BLOCK is not executed.

```
$foo = reduce { $a < $b ? $a : $b } 1..10      # min
$foo = reduce { $a lt $b ? $a : $b } 'aa':'zz' # minstr
$foo = reduce { $a + $b } 1 .. 10             # sum
$foo = reduce { $a . $b } @bar                # concat
```

If your algorithm requires that C<reduce> produce an identity value, then make sure that you always pass that identity value as the first argument to prevent C<undef> being returned.
$foo = reduce { $a + $b } 0, @values;     # sum with 0 identity value

=item shuffle LIST

Returns the elements of LIST in a random order

    @cards = shuffle 0..51     # 0..51 in a random order

=item sum LIST

Returns the sum of all the elements in LIST. If LIST is empty then
C<undef> is returned.

    $foo = sum 1..10       # 55
    $foo = sum 3,9,12     # 24
    $foo = sum @bar, @baz # whatever

This function could be implemented using C<reduce> like this

    $foo = reduce { $a + $b } 1..10

If your algorithm requires that C<sum> produce an identity of 0, then
make sure that you always pass C<0> as the first argument to prevent
C<undef> being returned

    $foo = sum 0, @values;

=item sum0 LIST

Similar to C<sum>, except this returns 0 when given an empty list, rather
than C<undef>.

=back

=head1 KNOWN BUGS

With perl versions prior to 5.005 there are some cases where reduce
will return an incorrect result. This will show up as test 7 of
reduce.t failing.

=head1 SUGGESTED ADDITIONS

The following are additions that have been requested, but I have been reluctant
to add due to them being very simple to implement in perl

    # One argument is true
sub any { $_[0] && return 1 for @_; 0 }

# All arguments are true

sub all { $_[0] || return 0 for @_; 1 }

# All arguments are false

sub none { $_[0] && return 0 for @_; 1 }

# One argument is false

sub notall { $_[0] || return 1 for @_; 0 }

# How many elements are true

sub true { scalar grep { $_ } @_ }

# How many elements are false

sub false { scalar grep { !$_ } @_ }

=head1 SEE ALSO

L<Scalar::Util>, L<List::MoreUtils>

=head1 COPYRIGHT

Copyright (c) 1997-2007 Graham Barr <gbarr@pobox.com>. All rights reserved. This program is free software; you can redistribute it and/or modify it under the same terms as Perl itself.

=cut

Found in path(s):

No license file was found, but licenses were detected in source scan.

/*

ppport.h -- Perl/Pollution/Portability Version 3.19_02

Automatically created by Devel::PPPort running under perl 5.010000.

Do NOT edit this file directly! -- Edit PPPort.pm.PL and the
includes in parts/inc/ instead.

Use 'perldoc ppport.h' to view the documentation below.

-----------------------------------------------------------------------------

SKIP

=pod

=head1 NAME

ppport.h - Perl/Pollution/Portability version 3.19_02

=head1 SYNOPSIS

perl ppport.h [options] [source files]

Searches current directory for files if no [source files] are given

--help show short help

--version show version

--patch=file write one patch file with changes
--copy=suffix write changed copies with suffix
--diff=program use diff program and options

--compat-version=version provide compatibility with Perl version
--cplusplus accept C++ comments

--quiet don't output anything except fatal errors
--nodiag don't show diagnostics
--nohints don't show hints
--nochanges don't suggest changes
--nofilter don't filter input files

--strip strip all script and doc functionality from ppport.h

--list-provided list provided API
--list-unsupported list unsupported API
--api-info=name show Perl API portability information

=head1 COMPATIBILITY

This version of F<ppport.h> is designed to support operation with Perl installations back to 5.003, and has been tested up to 5.11.5.
=head1 OPTIONS

=head2 --help

Display a brief usage summary.

=head2 --version

Display the version of F<ppport.h>.

=head2 --patch=I<file>

If this option is given, a single patch file will be created if any changes are suggested. This requires a working diff program to be installed on your system.

=head2 --copy=I<suffix>

If this option is given, a copy of each file will be saved with the given suffix that contains the suggested changes. This does not require any external programs. Note that this does not automagically add a dot between the original filename and the suffix. If you want the dot, you have to include it in the option argument.

If neither C<--patch> or C<--copy> are given, the default is to simply print the diffs for each file. This requires either C<Text::Diff> or a C<diff> program to be installed.

=head2 --diff=I<program>

Manually set the diff program and options to use. The default is to use C<Text::Diff>, when installed, and output unified context diffs.

=head2 --compat-version=I<version>

Tell F<ppport.h> to check for compatibility with the given Perl version. The default is to check for compatibility with Perl version 5.003. You can use this option to reduce the output of F<ppport.h> if you intend to be backward compatible only down to a certain Perl version.

=head2 --cplusplus

Usually, F<ppport.h> will detect C++ style comments and replace them with C style comments for portability reasons.
Using this option instructs `ppport.h` to leave C++ comments untouched.

=head2 --quiet

Be quiet. Don't print anything except fatal errors.

=head2 --nodiag

Don't output any diagnostic messages. Only portability alerts will be printed.

=head2 --nohints

Don't output any hints. Hints often contain useful portability notes. Warnings will still be displayed.

=head2 --nochanges

Don't suggest any changes. Only give diagnostic output and hints unless these are also deactivated.

=head2 --nofilter

Don't filter the list of input files. By default, files not looking like source code (i.e. not *.xs, *.c, *.cc, *.cpp or *.h) are skipped.

=head2 --strip

Strip all script and documentation functionality from `ppport.h`. This reduces the size of `ppport.h` dramatically and may be useful if you want to include `ppport.h` in smaller modules without increasing their distribution size too much.

The stripped `ppport.h` will have a C `--unstrip` option that allows you to undo the stripping, but only if an appropriate C<Devel::PPPort> module is installed.

=head2 --list-provided

Lists the API elements for which compatibility is provided by `ppport.h`. Also lists if it must be explicitly requested, if it has dependencies, and if there are hints or warnings for it.

=head2 --list-unsupported

Lists the API elements that are known not to be supported by `ppport.h` and below which version of Perl they probably
won't be available or work.

=head2 --api-info=I<name>

Show portability information for API elements matching I<name>. If I<name> is surrounded by slashes, it is interpreted as a regular expression.

=head1 DESCRIPTION

In order for a Perl extension (XS) module to be as portable as possible across differing versions of Perl itself, certain steps need to be taken.

=over 4

=item *

Including this header is the first major one. This alone will give you access to a large part of the Perl API that hasn't been available in earlier Perl releases. Use

    perl ppport.h --list-provided

to see which API elements are provided by ppport.h.

=item *

You should avoid using deprecated parts of the API. For example, using global Perl variables without the C<PL_> prefix is deprecated. Also, some API functions used to have a C<perl_> prefix. Using this form is also deprecated. You can safely use the supported API, as F<ppport.h> will provide wrappers for older Perl versions.

=item *

If you use one of a few functions or variables that were not present in earlier versions of Perl, and that can't be provided using a macro, you have to explicitly request support for these functions by adding one or more C<#define>s in your source code before the inclusion of F<ppport.h>.

These functions or variables will be marked C<explicit> in the list shown by C<--list-provided>.

Depending on whether you module has a single or multiple files that use such functions or variables, you want either C<static> or global variants.

For a C<static> function or variable (used only in a single source
For a global function or variable (used in multiple source files), use:

```c
#define NEED_function_GLOBAL
#define NEED_variable_GLOBAL
```

Note that you mustn't have more than one global request for the same function or variable in your project.

<table>
<thead>
<tr>
<th>Function / Variable</th>
<th>Static Request</th>
<th>Global Request</th>
</tr>
</thead>
<tbody>
<tr>
<td>PL_parser</td>
<td>NEED_PL_parser</td>
<td>NEED_PL_parser_GLOBAL</td>
</tr>
<tr>
<td>PL_signals</td>
<td>NEED_PL_signals</td>
<td>NEED_PL_signals_GLOBAL</td>
</tr>
<tr>
<td>eval_pv()</td>
<td>NEED_eval_pv</td>
<td>NEED_eval_pv_GLOBAL</td>
</tr>
<tr>
<td>grok_bin()</td>
<td>NEED_grok_bin</td>
<td>NEED_grok_bin_GLOBAL</td>
</tr>
<tr>
<td>grok_hex()</td>
<td>NEED_grok_hex</td>
<td>NEED_grok_hex_GLOBAL</td>
</tr>
<tr>
<td>grok_number()</td>
<td>NEED_grok_number</td>
<td>NEED_grok_number_GLOBAL</td>
</tr>
<tr>
<td>grok_numeric_radix()</td>
<td>NEED_grok_numeric_radix</td>
<td>NEED_grok_numeric_radix_GLOBAL</td>
</tr>
<tr>
<td>grok_oct()</td>
<td>NEED_grok_oct</td>
<td>NEED_grok_oct_GLOBAL</td>
</tr>
<tr>
<td>load_module()</td>
<td>NEED_load_module</td>
<td>NEED_load_module_GLOBAL</td>
</tr>
<tr>
<td>my_snprintf()</td>
<td>NEED_my_snprintf</td>
<td>NEED_my_snprintf_GLOBAL</td>
</tr>
<tr>
<td>my_sprintf()</td>
<td>NEED_my_sprintf</td>
<td>NEED_my_sprintf_GLOBAL</td>
</tr>
<tr>
<td>my_strlcat()</td>
<td>NEED_my_strlcat</td>
<td>NEED_my_strlcat_GLOBAL</td>
</tr>
<tr>
<td>my_strlcpy()</td>
<td>NEED_my_strlcpy</td>
<td>NEED_my_strlcpy_GLOBAL</td>
</tr>
<tr>
<td>newCONSTSUB()</td>
<td>NEED_newCONSTSUB</td>
<td>NEED_newCONSTSUB_GLOBAL</td>
</tr>
<tr>
<td>newRV_noinc()</td>
<td>NEED_newRV_noinc</td>
<td>NEED_newRV_noinc_GLOBAL</td>
</tr>
<tr>
<td>newSV_type()</td>
<td>NEED_newSV_type</td>
<td>NEED_newSV_type_GLOBAL</td>
</tr>
<tr>
<td>newSVpvn_flags()</td>
<td>NEED_newSVpvn_flags</td>
<td>NEED_newSVpvn_flags_GLOBAL</td>
</tr>
<tr>
<td>newSVpvn_share()</td>
<td>NEED_newSVpvn_share</td>
<td>NEED_newSVpvn_share_GLOBAL</td>
</tr>
<tr>
<td>pv_display()</td>
<td>NEED_pv_display</td>
<td>NEED_pv_display_GLOBAL</td>
</tr>
<tr>
<td>pv_escape()</td>
<td>NEED_pv_escape</td>
<td>NEED_pv_escape_GLOBAL</td>
</tr>
<tr>
<td>pv_pretty()</td>
<td>NEED_pv_pretty</td>
<td>NEED_pv_pretty_GLOBAL</td>
</tr>
<tr>
<td>sv_2pvflags()</td>
<td>NEED_sv_2pvflags</td>
<td>NEED_sv_2pvflags_GLOBAL</td>
</tr>
<tr>
<td>sv_2pvbyte()</td>
<td>NEED_sv_2pvbyte</td>
<td>NEED_sv_2pvbyte_GLOBAL</td>
</tr>
<tr>
<td>sv_catpufv()</td>
<td>NEED_sv_catpufv</td>
<td>NEED_sv_catpufv_GLOBAL</td>
</tr>
<tr>
<td>sv_catpufv_nocontext()</td>
<td>NEED_sv_catpufv_nocontext</td>
<td>NEED_sv_catpufv_nocontext_GLOBAL</td>
</tr>
<tr>
<td>sv_pvn_force_flags()</td>
<td>NEED_sv_pvn_force_flags</td>
<td>NEED_sv_pvn_force_flags_GLOBAL</td>
</tr>
<tr>
<td>sv_setpufv()</td>
<td>NEED_sv_setpufv</td>
<td>NEED_sv_setpufv_GLOBAL</td>
</tr>
<tr>
<td>sv_setpufv_nocontext()</td>
<td>NEED_sv_setpufv_nocontext</td>
<td>NEED_sv_setpufv_nocontext_GLOBAL</td>
</tr>
<tr>
<td>vload_module()</td>
<td>NEED_vload_module</td>
<td>NEED_vload_module_GLOBAL</td>
</tr>
<tr>
<td>vnewSVpuf()</td>
<td>NEED_vnewSVpuf</td>
<td>NEED_vnewSVpuf_GLOBAL</td>
</tr>
<tr>
<td>warner()</td>
<td>NEED_warner</td>
<td>NEED_warner_GLOBAL</td>
</tr>
</tbody>
</table>
To avoid namespace conflicts, you can change the namespace of the explicitly exported functions / variables using the C<DPPP_NAMESPACE> macro. Just C/#define> the macro before including C<ppport.h>:

```c
#define DPPP_NAMESPACE MyOwnNamespace_
#include "ppport.h"
```

The default namespace is C<DPPP_>.

=back

The good thing is that most of the above can be checked by running F<ppport.h> on your source code. See the next section for details.

=head1 EXAMPLES

To verify whether F<ppport.h> is needed for your module, whether you should make any changes to your code, and whether any special defines should be used, F<ppport.h> can be run as a Perl script to check your source code. Simply say:

```perl
perl ppport.h
```

The result will usually be a list of patches suggesting changes that should at least be acceptable, if not necessarily the most efficient solution, or a fix for all possible problems.

If you know that your XS module uses features only available in newer Perl releases, if you're aware that it uses C++ comments, and if you want all suggestions as a single patch file, you could use something like this:

```perl
perl ppport.h --compat-version=5.6.0 --cplusplus --patch=test.diff
```

If you only want your code to be scanned without any suggestions for changes, use:

```perl
perl ppport.h --nochanges
```

You can specify a different C<diff> program or options, using the C<--diff> option:

```perl
perl ppport.h --diff='diff -C 10'
```

This would output context diffs with 10 lines of context.

If you want to create patched copies of your files instead, use:
perl ppport.h --copy=.new

To display portability information for the C<newSVpvn> function, use:

perl ppport.h --api-info=newSVpvn

Since the argument to C<--api-info> can be a regular expression, you can use

perl ppport.h --api-info=/_nomg$/

to display portability information for all C<_nomg> functions or

perl ppport.h --api-info=/.

to display information for all known API elements.

=head1 BUGS

If this version of F<ppport.h> is causing failure during the compilation of this module, please check if newer versions of either this module or C<Devel::PPPort> are available on CPAN before sending a bug report.

If F<ppport.h> was generated using the latest version of C<Devel::PPPort> and is causing failure of this module, please file a bug report using the CPAN Request Tracker at L<http://rt.cpan.org/>.

Please include the following information:

=over 4

=item 1.

The complete output from running "perl -V"

=item 2.

This file.

=item 3.

The name and version of the module you were trying to build.

=item 4.
A full log of the build that failed.

=item 5.

Any other information that you think could be relevant.

=back

For the latest version of this code, please get the C<Devel::PPPort> module from CPAN.

=head1 COPYRIGHT

Version 3.x, Copyright (c) 2004-2010, Marcus Holland-Moritz.

Version 2.x, Copyright (C) 2001, Paul Marquess.

Version 1.x, Copyright (C) 1999, Kenneth Albanowski.

This program is free software; you can redistribute it and/or modify it under the same terms as Perl itself.

=head1 SEE ALSO

See L<Devel::PPPort>.

=cut

use strict;

# Disable broken TRIE-optimization
BEGIN { eval '${^RE_TRIE_MAXBUF} = -1' if $] >= 5.009004 && $] <= 5.009005 }

my $VERSION = 3.19_02;

my %opt = (
    quiet => 0,
    diag  => 1,
    hints => 1,
    changes => 1,
    cplusplus => 0,
    filter  => 1,
    strip   => 0,
    version => 0,
);

my($ppport) = $0 =~ /\[[\w.]+\]/;
my $LF = '(?:\r\n|\[\r\n\])';  # line feed
my $HS = "[ \t]";

# Never use C comments in this file!
my $ccs = /'\*\/n';
my $cce = '*\/n';
my $rccs = quotemeta $ccs;
my $rcce = quotemeta $cce;

eval {
    require Getopt::Long;
    Getopt::Long::GetOptions(\%opt, qw(
        help quiet diag! filter! hints! changes! cplusplus strip version
        patch=s copy=s diff=s compat-version=s
        list-provided list-unsupported api-info=s
    )) or usage();
};

if ($@ and grep /^-/, @ARGV) {
    usage() if "$ARGV" =~ /-?h(?:elp)?$/;
    die "Getopt::Long not found. Please don't use any options.
";
}

if ($opt{version}) {
    print "This is $0 $VERSION.
";
    exit 0;
}

usage() if $opt{help};
strip() if $opt{strip};

if (exists $opt{'compat-version'}) {
    my($r,$v,$s) = eval { parse_version($opt{'compat-version'}) };
    if ($@) {
        die "Invalid version number format: "$opt{'compat-version'}
";
    }
    die "Only Perl 5 is supported
" if $r != 5;
    die "Invalid version number: $opt{'compat-version'}
" if $v >= 1000 || $s >= 1000;
    $opt{'compat-version'} = sprintf "%d.%03d%03d", $r, $v, $s;
}
else {
    $opt{'compat-version'} = 5;
}

my %API = map { /^\w+\|[^|]*\|[^|]*\|\w*$/ ? ( $1 => 
    ($2 ? ( base => $2 ) : ()),
    ($3 ? ( todo => $3 ) : ()),
    (index($4, 'v') >= 0 ? ( varargs => 1 ) : ()),
}
(index($4, 'p') >= 0 ? ( provided => 1 ) : ()),
(index($4, 'n') >= 0 ? ( nothxarg => 1 ) : ()),
)
: die "invalid spec: $_" } qw(
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CLASS||n
CPERLscope[5.005000]|p
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CX_CURPAD_SV||
CopFILEAV[5.006000]|p
CopFILEGV_set[5.006000]|p
CopFILEGV[5.006000]|p
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CopFILE[5.006000]|p
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OPEN SOURCE USED IN CISCO CLOUD MAILBOX DEFENSE - CMD (PROJECT RAPTOR) APRIL 2021

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Open Source Used In Cisco Cloud Mailbox Defense -CMD (Project Raptor) April 2021

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yywarn||
);

if (exists $opt{'list-unsupported'}) {
    my $f;
    for $f (sort { lc $a cmp lc $b } keys %API) {
        next unless $API{$f}{todo};
        print "$f ", '.'x(40-length($f)), " ", format_version($API{$f}{todo}), "\n";
    }
    exit 0;
}

# Scan for possible replacement candidates

my(%replace, %need, %hints, %warnings, %depends);
my $replace = 0;
my($hint, $define, $function);

sub find_api
{
    my $code = shift;
    $code =~ s{
        / (?::\^\*[^*]*\*+(?:[^$ccs][^*]*\*+)* / )\/^\n\n+) / "
        / "\n\n+.([^\n]*)/ }{}egsx;
    grep { exists $API{$_} } $code =~ /\w+/mg;
}

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while (<DATA>) {
if (Shint) {
  my $h = $hint->[0] eq 'Hint' ? \%hints : \%warnings;
  if (m{^(\s*\^\*s+(.*))\s*$}) {
    for (@{$hint->[1]}) {
      $h->{$_} ||= ''; # suppress warning with older perls
      $h->{$_} .= "$1\n";
    }
  }
  else { undef $hint }
}

$hint = [$1, split /,?s+/, $2]] if m{^(\s*srcs+(Hint|Warning):\s+(\w+(?:,?\s+\w+)*)\s*$)};

if ($define) {
  if ($define->[1] =~ /\$/) {
    $define->[1] .= $_;
  }
  else {
    if (exists $API{$define->[0]} && $define->[1] !~ /^DPPP_/) {
      my @n = find_api($define->[1]);
      push @{$depends{$define->[0]}}, @n if @n
    }
    undef $define;
  }
}

$define = [$1, $2] if m{^(\s*\^s*define\s+(\w+)(?:\([^)]*\))\s+(.*)};

if ($function) {
  if (/\$/) {
    if (exists $API{$function->[0]}) {
      my @n = find_api($function->[1]);
      push @{$depends{$function->[0]}}, @n if @n
    }
    undef $function;
  }
  else {
    $function->[1] .= $_;
  }
}

$function = [$1, ""] if m{^DPPP_\(my_(\w+)\)};

$replace = $1 if m{^(\s*srcs\s+Replace:\s+(?d+)\s+s+srcce\s*$)};
$replace{$2} = $1 if $replace and m{^(\s*\^s*define\s+(\w+)(?:\([^)]*\))\s+(.*)};
$replace{$2} = $1 if m{^(\s*\^s*define\s+(\w+)\s+(.*)}\s+srcce\s+Replace\s+srcce\s*};
"replace\{S1\} = S2 if m{^[\s*srccs]+Replace (w+) with (w+)/s+srce/cs*$};

if (m{^[\s*srccs]+(w+(\s*,\s*\w+)*)s+depends/s+on/s+(w+(\s*,\s*\w+)*)s+srce/cs*$}) {
  my @deps = map { s/s+/g; S_ } split //, $3;
  my $d;
  for $d (map { s/s+/g; S_ } split //, $1) {
    push @$depends{$d}, @deps;
  }
}

$need{S1} = 1 if m{^#if\s+defined\(NEED_(\w+)(?:_GLOBAL)?\){};

for (values %depends)
  my %s;
  $_ = [sort grep !$s{$_}++, @$_];

if (exists $opt{\'api-info\'})
  my $f;
  my $count = 0;
  my $match = Sopt\{\'api-info\'} =~ m!^/(.*)/$! ? $1 : "\Q$opt\{\'api-info\'}\E";
  for $f (sort { lc $a cmp lc $b } keys %API) {
    next unless $f =~ /$match/;
    print "=== $f ===

    my $info = 0);
    if ($API{$f}{base} || $API{$f}{todo})
      my $base = format_version($API{$f}{base} || $API{$f}{todo});
      print "Supported at least starting from perl-$base\n";
      $info++;
    }
    if ($API{$f}{provided})
      my $todo = $API{$f}{todo} ? format_version($API{$f}{todo}) : "5.003";
      print "Support by $ppport provided back to perl-$todo\n";
      print "Support needs to be explicitly requested by NEED_$f\n" if exists $need{$f};
      print "Depends on: \n, join\{', ', @\$depends\{\$f\}\}, \n" if exists $depends{$f};
      print "unShints\{\$f\}" if exists Shints{$f};
      print "unWARNING\n$warnings{$f}" if exists $warnings{$f};
      $info++;
    }
    print "No portability information available\n" unless $info;
    $count++;
  }
$count or print "Found no API matching $opt\{'api-info\'}\n";
  print "\n";
  exit 0;
}
if (exists $opt{'list-provided'}) {
  my $f;
  for $f (sort { lc $a cmp lc $b } keys %API) {
    next unless $API{$f}{provided};
    my @flags;
    push @flags, 'explicit' if exists $need{$f};
    push @flags, 'depend'   if exists $depends{$f};
    push @flags, 'hint'     if exists $hints{$f};
    push @flags, 'warning'  if exists $warnings{$f};
    my $flags = @flags ? ['join(', ', ', @flags).'] : "";
    print "$f$flags\n";
  }
  exit 0;
}

my @files;
my @srcext = qw(.xs .c .h .cc .cpp -c.inc -xs.inc );
my $srcext = join '|', map { quotemeta $_ } @srcext;

if (@ARGV) {
  my %seen;
  for (@ARGV) {
    if (-e) {
      if (-f) {
        push @files, $_ unless $seen{$_}++;
      }
      else { warn "'$_' is not a file.\n" }
    }
    else {
      my @new = grep { -f } glob $_
      or warn "'$_' does not exist.\n";
      push @files, grep { !$seen{$_}++ } @new;
    }
  }
} else {
  eval {
    require File::Find;
    File::Find::find(sub {
      $File::Find::name =~ /($srcext)$/i
      and push @files, $File::Find::name;
    }, '.');
  }
  if ($@) {
    @files = map { glob "*$_" } @srcext;
  }
}
if (!@ARGV || $opt{filter}) {
my(@in, @out);
my %xsc = map { /(.*)\.xs$/ ? ("$1.c" => 1, "$1.cc" => 1) : () } @files;
for (@files) {
my $out = exists $xsc{$_} || /\b\Q$ppport\E$/i || !/($srcext)$/i;
push @{ $out ? \@out : \@in }, $_;
}
if (@ARGV && @out) {
warning("Skipping the following files (use --nofilter to avoid this):\n| ", join "\n| ", @out);
}
@files = @in;
}
die "No input files given!\n" unless @files;
my(%files, %global, %revreplace);
%revreplace = reverse %replace;
my $filename;
my $patch_opened = 0;
for $filename (@files) {
unless (open IN, "<$filename") {
warn "Unable to read from $filename: $!\n";
next;
}
info("Scanning $filename ...");
my $c = do { local $/; <IN> };
close IN;
my %file = (orig => $c, changes => 0);
# Temporarily remove C/XS comments and strings from the code
my @ccom;
$c =~ s{
( ^$HS*\#$HS*include\b[^\r\n]+\b(?:\Q$ppport\E|XSUB\.h)\b[^\r\n]*
| ^$HS*\#$HS*(?:define|elif|if(?:def)?)\b[^\r\n]* )
| ( ^$HS*\#[^\r\n]*
| "[^"\\]*(?:\\.[^"\\]*)*"
| '[^'\\]*(?:\\.[^'\\]*)*'
| / (?: \*[^*]*\*+(?:[^$ccs][^*]*\*+)* / | /[^\r\n]* ) )
}{ defined $2 and push @ccom, $2;
defined $1 ? $1 : "$ccs$#ccom$cce" }mgsex;
$file{ccom} = \@ccom;
$file{code} = $c;

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my $func;

for $func (keys %API) {
  my $match = $func;
  $match .= q{$revreplace{$func}} if exists $revreplace{$func};
  if ($c =~ /Perl_\$match\b/) {
    $file{uses_Perm}{$func}++;
    my @deps = rec_depend($func);
    for (@deps) {
      $file{uses}{$func} = 0 unless exists $file{uses}{$func};
    }
  }
  for ($func, @deps) {
    $file{needs}{$func} = 'static' if exists $need{$func};
  }
  if (exists $API{$func}{todo} && $API{$func}{todo} > $opt{compat_version}) {
    $file{uses_todo}{$func}++;
  }
  while ($c =~ /\$func\b/) {
    if (exists $need{$_}) {
      $file{defined $3 ? 'needed_global' : 'needed_static'}{$_}++;
    } else { warning("Possibly wrong #define $1 in $filename") }
  }

  while ($c =~ /\$func\b/) {
    if (exists $need{$_}) {
      $file{defined $3 ? 'needed_global' : 'needed_static'}{$_}++;
    } else { warning("Possibly wrong #define $1 in $filename") }
  }

  for (qw(uses needs uses_todo needed_global needed_static)) {
    for $func (keys %{$file{$_}}) {
      push @[$global{$_}{$func}], $filename;
    }
  }
}

$file{has_inc_ppport} = $c =~ /^\*SHS*#SHS*include[^r\n]+\b\Q$ppport\E\b/m;

my $func;

for $func (keys %API) {
  my $match = $func;
  $match .= q{$revreplace{$func}} if exists $revreplace{$func};
  if ($c =~ /Perl_\$match\b/) {
    $file{uses_Perm}{$func}++;
    my @deps = rec_depend($func);
    for (@deps) {
      $file{uses}{$func} = 0 unless exists $file{uses}{$func};
    }
  }
  for ($func, @deps) {
    $file{needs}{$func} = 'static' if exists $need{$func};
  }
  if (exists $API{$func}{todo} && $API{$func}{todo} > $opt{compat_version}) {
    $file{uses_todo}{$func}++;
  }
  while ($c =~ /\$func\b/) {
    if (exists $need{$_}) {
      $file{defined $3 ? 'needed_global' : 'needed_static'}{$_}++;
    } else { warning("Possibly wrong #define $1 in $filename") }
  }

  while ($c =~ /\$func\b/) {
    if (exists $need{$_}) {
      $file{defined $3 ? 'needed_global' : 'needed_static'}{$_}++;
    } else { warning("Possibly wrong #define $1 in $filename") }
  }

  for (qw(uses needs uses_todo needed_global needed_static)) {
    for $func (keys %{$file{$_}}) {
      push @[$global{$_}{$func}], $filename;
    }
  }
}

$file{has_inc_ppport} = $c =~ /^\*SHS*#SHS*include[^r\n]+\b\Q$ppport\E\b/m;
}
# Globally resolve NEED_'s
my $need;
for $need (keys %{$global{needs}}) {
if (@{$global{needs}{$need}} > 1) {
my @targets = @{$global{needs}{$need}};
my @t = grep $files{$_}{needed_global}{$need}, @targets;
@targets = @t if @t;
@t = grep /\.xs$/i, @targets;
@targets = @t if @t;
my $target = shift @targets;
$files{$target}{needs}{$need} = 'global';
for (@{$global{needs}{$need}}) {
$files{$_}{needs}{$need} = 'extern' if $_ ne $target;
}
}
}
for $filename (@files) {
exists $files{$filename} or next;
info("=== Analyzing $filename ===");
my %file = %{$files{$filename}};
my $func;
my $c = $file{code};
my $warnings = 0;
for $func (sort keys %{$file{uses_Perl}}) {
if ($API{$func}{varargs}) {
unless ($API{$func}{nothxarg}) {
my $changes = ($c =~ s{\b(Perl_$func\s*\(\s*)(?!aTHX_?)(\)|[^\s)]*\))}
{ $1 . ($2 eq ')' ? 'aTHX' : 'aTHX_ ') . $2 }ge);
if ($changes) {
warning("Doesn't pass interpreter argument aTHX to Perl_$func");
$file{changes} += $changes;
}
}
}
else {
warning("Uses Perl_$func instead of $func");
$file{changes} += ($c =~ s{\bPerl_$func(\s*)\((\s*aTHX_?)?\s*}
{$func$1(}g);
}
}
for $func (sort keys %{$file{uses_replace}}) {

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warning("Uses $func instead of $replace{$func}");
$file{changes} += ($c =~ s/b$func/b$replace{$func}/g);
}

for $func (sort keys %{$file{uses_provided}}) {
    if ($file{uses}->{$func}) {
        if (exists $file{uses_deps}->{$func}) {
            diag("Uses $func, which depends on ", join(', ', @{$file{uses_deps}->{$func}}));
        } else {
            diag("Uses $func");
        }
    }
    $warnings += hint($func);
}

unless ($opt{quiet}) {
    for $func (sort keys %{$file{uses_todo}}) {
        print "*** WARNING: Uses $func, which may not be portable below perl ",
            format_version($API{$func}{todo}), ", even with 'ppport'\n";
        $warnings++;
    }
}

for $func (sort keys %{$file{needed_static}}) {
    my $message = "";
    if (not exists $file{uses}->{$func}) {
        $message = "No need to define NEED_$func if $func is never used";
    } elsif (exists $file{needs}->{$func} && $file{needs}->{$func} ne 'static') {
        $message = "No need to define NEED_$func when already needed globally";
    } if ($message) {
        diag($message);
        $file{changes} += ($c =~ s/^$HS*#$HS*define$HS+NEED_$func\b.*$LF//mg);
    }
}

for $func (sort keys %{$file{needed_global}}) {
    my $message = "";
    if (not exists $global{uses}->{$func}) {
        $message = "No need to define NEED_${func}_GLOBAL if $func is never used";
    } elsif (exists $file{needs}->{$func}) {
        if ($file{needs}->{$func} eq 'extern') {
            $message = "No need to define NEED_${func}_GLOBAL when already needed globally";
        } elsif ($file{needs}->{$func} eq 'static') {
        } elsif (exists $file{needs}->{$func}) {
            if ($file{needs}->{$func} eq 'extern') {
                $message = "No need to define NEED_${func}_GLOBAL when already needed globally";
            } elsif ($file{needs}->{$func} eq 'static') {

```
$message = "No need to define NEED_${func}_GLOBAL when only used in this file";
}
if ($message) {
    diag($message);
    $file{changes} += ($c =~ s/^\$HS*\$HS*define\$HS+NEED_${func}_GLOBAL\b.*\$LF//mg);
}

$file{needs_inc_ppport} = keys %{$file{uses}};
if ($file{needs_inc_ppport}) {
    my $pp = ";
    for $func (sort keys %{$file{needs}})) {
        my $type = $file{needs}[$func];
        next if $type eq 'extern';
        my $suffix = $type eq 'global' ? '_GLOBAL' : "";
        unless (exists $file{"needed_$type"}[$func]) {
            if ($type eq 'global') {
                diag("Files @ {$global{needs}{$func}} need $func, adding global request");
            } else {
                diag("File needs $func, adding static request");
            }
            $pp .= "#define NEED_$func$suffix\n";
        } else {
            diag("File needs $func, adding static request");
        }
        $pp := ";
    }
    if ($pp && ($c =~ s/^(?=$HS*\$HS*define\$HS+NEED_\w+)/$pp/m)) {
        $pp = ";
        $file{changes}++;
    }
    unless ($file{has_inc_ppport}) {
        diag("Needs to include \"$ppport\"");
        $pp := qq(#include "$ppport\n")
    } else {
        diag("File needs $func, adding static request");
        $pp := qq(#include "$ppport\n")
    }
}
if ($pp) {
    $file{changes} += ($c =~ s/^(?=$HS*\$HS*define\$HS+NEED_\w+.*?)/$pp/;ms) || ($c =~ s/^(?=$HS*\$HS*include.*\Q$ppport\E)/$pp/m) || ($c =~ s/^(?=$HS*\$HS*include.*xsunb.*?)/$pp/m) || ($c =~ s/\$/\$pp/;)
} else {
    if ($file{has_inc_ppport}) {

diag("No need to include '$ppport'");
$file{changes} += ($c =~ s/^$HS*?#$HS*include.*\Q$ppport\E.*?$LF//m);
}
}
# put back in our C comments
my $ix;
my $cppc = 0;
my @ccom = @{$file{ccom}};
for $ix (0 .. $#ccom) {
if (!$opt{cplusplus} && $ccom[$ix] =~ s!^//!!) {
$cppc++;
$file{changes} += $c =~ s/$rccs$ix$rcce/$ccs$ccom[$ix] $cce/;
}
else {
$c =~ s/$rccs$ix$rcce/$ccom[$ix]/;
}
}
if ($cppc) {
my $s = $cppc != 1 ? 's' : '';
warning("Uses $cppc C++ style comment$s, which is not portable");
}
my $s = $warnings != 1 ? 's' : '';
my $warn = $warnings ? " ($warnings warning$s)" : '';
info("Analysis completed$warn");
if ($file{changes}) {
if (exists $opt{copy}) {
my $newfile = "$filename$opt{copy}";
if (-e $newfile) {
error("'$newfile' already exists, refusing to write copy of '$filename'");
}
else {
local *F;
if (open F, ">$newfile") {
info("Writing copy of '$filename' with changes to '$newfile'");
print F $c;
close F;
}
else {
error("Cannot open '$newfile' for writing: $!");
}
}
}
elsif (exists $opt{patch} || $opt{changes}) {
if (exists $opt{patch}) {

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unless ($patch_opened) {
    if (open PATCH, ">$opt{patch}") {
        $patch_opened = 1;
    } else {
        error("Cannot open ".$opt{patch} for writing: $!");
        delete $opt{patch};
        $opt{changes} = 1;
        goto fallback;
    }
}
mydiff(*PATCH, $filename, $c);
else {
    fallback:
        info("Suggested changes:");
        mydiff(*STDOUT, $filename, $c);
    }
} else {
    my $s = $file{changes} == 1 ? '' : 's';
    info("$file{changes} potentially required change$s detected");
}
}
else {
    info("Looks good");
}
}

close PATCH if $patch_opened;

exit 0;

sub try_use { eval "use @_;": return $@ eq "" }

sub mydiff
{
    local *F = shift;
    my($file, $str) = @_; my $diff;

    if (exists $opt{diff}) {
        $diff = run_diff($opt{diff}, $file, $str);
    } else {
        $diff = Text::Diff::diff($file, $str, { STYLE => 'Unified' });
    }
```perl
$diff = <<HEADER . $diff;
--- $file
+++ $file.patched
HEADER
}

if (!defined $diff) {
  $diff = run_diff('diff -u', $file, $str);
}

if (!defined $diff) {
  $diff = run_diff('diff', $file, $str);
}

if (!defined $diff) {
  error("Cannot generate a diff. Please install Text::Diff or use --copy.");
  return;
}

print F $diff;
}

sub run_diff {
  my($prog, $file, $str) = @_;  
  my $tmp = 'dppptemp';  
  my $suf = 'aaa';  
  my $diff = ";
  local *F;

  while (-e "$tmp.$suf") { $suf++ }
  $tmp = "$tmp.$suf";

  if (open F, ">$tmp") {
    print F $str;
    close F;

    if (open F, "$prog $file $tmp |") {
      while (<F>) {
        s/Q$tmp\E/$file.patched/;
        $diff .= $._;
      }
      close F;
      unlink $tmp;
      return $diff;
    }
  }

  unlink $tmp;
```

else {
    error("Cannot open '$tmp' for writing: $!");
}

return undef;

sub rec_depend {
    my($func, $seen) = @_;  
    return () unless exists $depends{$func};
    $seen = {%{$seen||{}}};
    return () if $seen->{$func}++;
    my %s;
    grep !s{$}_{++}, map { ($_, rec_depend($_, $seen)) } @{$depends{$func}}; @{$depends{$func}};
}

sub parse_version {
    my $ver = shift;
    if ($ver =~ /^\d+\.(\d+).(\d+)$/) {
        return ($1, $2, $3);
    }
    elsif ($ver !~ /^\d+\.[\d_]$/) {
        die "cannot parse version '$ver'\n";
    }
    $ver =~ s/_//g;
    $ver =~ s/$/000000/;
    my($r,$v,$s) = $ver =~ /\d+\.(\d{3})\.(\d{3})/;
    $v = int $v;
    $s = int $s;
    if ($r < 5 || ($r == 5 && $v < 6)) {
        if ($s % 10) {
            die "cannot parse version '$ver'\n";
        }
    }
    return ($r, $v, $s);
}

sub format_version {

}
my $ver = shift;

$ver =~ s/$/000000/;
my($r,$v,$s) = $ver =~ /\d+\.(\d{3})\.(\d{3})/;

$v = int $v;
$s = int $s;

if ($r < 5 || ($r == 5 && $v < 6)) {
    if ($s % 10) {
        die "invalid version '$ver\n";
    }
    $s /= 10;

    $ver = sprintf "\d.\%03d", $r, $v;
    $s > 0 and $ver .= sprintf "_.\%02d", $s;

    return $ver;
}

return sprintf "\d.\d.\d\", $r, $v, $s;
}

sub info
{
    $opt{quiet} and return;
    print @_, "\n";
}

sub diag
{
    $opt{quiet} and return;
    $opt{diag} and print @_, "\n";
}

sub warning
{
    $opt{quiet} and return;
    print "*** \n", @_, "\n";
}

sub error
{
    print "*** ERROR: ", @_, "\n";
}

my %given_hints;
my %given_warnings;
sub hint
{
$opt{quiet} and return;
my $func = shift;
my $rv = 0;
if (exists $warnings{$func} && !$given_warnings{$func}++) {
my $warn = $warnings{$func};
$warn =~ s!^!*** !mg;
print "*** WARNING: $func\n", $warn;
$rv++;
}
if ($opt{hints} && exists $hints{$func} && !$given_hints{$func}++) {
my $hint = $hints{$func};
$hint =~ s/^/ /mg;
print " --- hint for $func ---\n", $hint;
}
$rv;
}
sub usage
{
my($usage) = do { local(@ARGV,$/)=($0); <> } =~ /^=head\d$HS+SYNOPSIS\s*^(.*?)\s*^=/ms;
my %M = ( 'I' => '*' );
$usage =~ s/^\s*perl\s+\S+/$^X $0/;
$usage =~ s/([A-Z])<([^>]+)>/$M{$1}$2$M{$1}/g;
print <<ENDUSAGE;
Usage: $usage
See perldoc $0 for details.
ENDUSAGE
exit 2;
}
sub strip
{
my $self = do { local(@ARGV,$/)=($0); <> };
my($copy) = $self =~ /^=head\d\s+COPYRIGHT\s*^(.*?)^=\w+/ms;
$copy =~ s/^(?=\S+)/ /gms;
$self =~ s/^$HS+Do NOT edit.*?(?=^-)/$copy/ms;
$self =~ s/^SKIP.*(?=^__DATA__)/SKIP
if (\@ARGV && \$ARGV[0] eq '--unstrip') {
eval { require Devel::PPPort };
\$@ and die "Cannot require Devel::PPPort, please install.\\n";
if (eval \$Devel::PPPort::VERSION < $VERSION) {

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Sorry, but this is a stripped version of $0.

To be able to use its original script and doc functionality, please try to regenerate this file using:

```
\$^X \$0 --unstrip
```

*Found in path(s):*


No license file was found, but licenses were detected in source scan.

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=head1 NAME
Scalar::Util - A selection of general-utility scalar subroutines

=head1 SYNOPSIS

use Scalar::Util qw(blessed dualvar isdual readonly refaddr reftype tainted weaken isweak isvstring looks_like_number set_prototype);
    # and other useful utils appearing below

=head1 DESCRIPTION

C<Scalar::Util> contains a selection of subroutines that people have expressed would be nice to have in the perl core, but the usage would not really be high enough to warrant the use of a keyword, and the size so small such that being individual extensions would be wasteful.

By default C<Scalar::Util> does not export any subroutines. The subroutines defined are

=over 4

=item blessed EXPR

If EXPR evaluates to a blessed reference the name of the package that it is blessed into is returned. Otherwise C<undef> is returned.

    $scalar = "foo";
    $class  = blessed $scalar;       # undef

    $ref    = [];
    $class  = blessed $ref;         # undef

    $obj    = bless [], "Foo";
    $class  = blessed $obj;         # "Foo"

=item dualvar NUM, STRING

Returns a scalar that has the value NUM in a numeric context and the value STRING in a string context.

    $foo = dualvar 10, "Hello";
    $num = $foo + 2;              # 12
    $str = $foo . " world";      # Hello world

=item isdual EXPR

If EXPR is a scalar that is a dualvar, the result is true.
$foo = dualvar 86, "Nix";
$dupal = isdual($foo);        # true

Note that a scalar can be made to have both string and numeric content through numeric operations:

$foo = "10";
$dupal = isdual($foo);        # false
$bar = $foo + 0;
$dupal = isdual($foo);        # true

Note that although C<$!> appears to be dual-valued variable, it is actually implemented using a tied scalar:

$! = 1;
print("$!\n");                 # "Operation not permitted"
$dupal = isdual($!);          # false

You can capture its numeric and string content using:

$err = dualvar $!, $!;
$dupal = isdual($err);        # true

=item isvstring EXPR

If EXPR is a scalar which was coded as a vstring the result is true.

$vs   = v49.46.48;
$fmt  = isvstring($vs) ? "%vd" : "%s"; #true
printf($fmt,$vs);

=item looks_like_number EXPR

Returns true if perl thinks EXPR is a number. See L<perlapi/looks_like_number>.

=item openhandle FH

Returns FH if FH may be used as a filehandle and is open, or FH is a tied handle. Otherwise C<undef> is returned.

$fh = openhandle(*STDIN);      # *STDIN
$fh = openhandle(\*STDIN);     # \*STDIN
$fh = openhandle("NOTOPEN");  # undef
$fh = openhandle("scalar");   # undef

=item readonly SCALAR
Returns true if SCALAR is readonly.

```perl
sub foo { readonly($_[0]) }

$readonly = foo($bar);       # false
$readonly = foo(0);          # true
```

=item refaddr EXPR

If EXPR evaluates to a reference the internal memory address of the referenced value is returned. Otherwise C<undef> is returned.

```perl
$addr = refaddr "string";     # undef
$addr = refaddr $var;         # eg 12345678
$addr = refaddr [];           # eg 23456784

$obj = bless {}; "Foo";
$addr = refaddr $obj;         # eg 88123488
```

=item reftype EXPR

If EXPR evaluates to a reference the type of the variable referenced is returned. Otherwise C<undef> is returned.

```perl
$type = reftype "string";     # undef
$type = reftype $var;         # SCALAR
$type = reftype [];           # ARRAY

$obj = bless {}; "Foo";
$type = reftype $obj;         # HASH
```

=item set_prototype CODEREF, PROTOTYPE

Sets the prototype of the given function, or deletes it if PROTOTYPE is undef. Returns the CODEREF.

```perl
set_prototype \&foo, "$$";
```

=item tainted EXPR

Return true if the result of EXPR is tainted

```perl
$taint = tainted("constant");   # false
$taint = tainted($ENV{PWD});    # true if running under -T
```

=item weaken REF

REF will be turned into a weak reference. This means that it will not
hold a reference count on the object it references. Also when the reference count on that object reaches zero, REF will be set to undef.

This is useful for keeping copies of references, but you don’t want to prevent the object being DESTROY-ed at its usual time.

```perl
{
    my $var;
    $ref = \$var;
    weaken($ref); # Make $ref a weak reference
}
# $ref is now undef
```

Note that if you take a copy of a scalar with a weakened reference, the copy will be a strong reference.

```perl
my $var;
my $foo = \$var;
weaken($foo); # Make $foo a weak reference
my $bar = $foo; # $bar is now a strong reference
```

This may be less obvious in other situations, such as `grep()`, for instance when grepping through a list of weakened references to objects that may have been destroyed already:

```perl
@object = grep { defined } @object;
```

This will indeed remove all references to destroyed objects, but the remaining references to objects will be strong, causing the remaining objects to never be destroyed because there is now always a strong reference to them in the @object array.

=item isweak EXPR

If EXPR is a scalar which is a weak reference the result is true.

```perl
$ref = \$foo;
$weak = isweak($ref); # false
weaken($ref);
$weak = isweak($ref); # true
```

B<NOTE>: Copying a weak reference creates a normal, strong, reference.

```perl
$copy = $ref;
$weak = isweak($copy); # false
```
=head1 DIAGNOSTICS

Module use may give one of the following errors during import.

=over

=item Weak references are not implemented in the version of perl

The version of perl that you are using does not implement weak references, to use C<isweak> or C<weaken> you will need to use a newer release of perl.

=item Vstrings are not implemented in the version of perl

The version of perl that you are using does not implement Vstrings, to use C<isvstring> you will need to use a newer release of perl.

=item C<NAME> is only available with the XS version of Scalar::Util

C<Scalar::Util> contains both perl and C implementations of many of its functions so that those without access to a C compiler may still use it. However some of the functions are only available when a C compiler was available to compile the XS version of the extension.

At present that list is: weaken, isweak, dualvar, isvstring, set_prototype

=back

=head1 KNOWN BUGS

There is a bug in perl5.6.0 with UV's that are &gt;= 1&lt;31. This will show up as tests 8 and 9 of dualvar.t failing

=head1 SEE ALSO

L<List::Util>

=head1 COPYRIGHT

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Except weaken and isweak which are

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=cut
This distribution is a replacement for the builtin distribution.

This package contains a selection of subroutines that people have expressed would be nice to have in the perl core, but the usage would not really be high enough to warrant the use of a keyword, and the size so small such that being individual extensions would be wasteful.

After unpacking the distribution, to install this module type

```perl
perl Makefile.PL
make
make test
make install
```

**KNOWN BUGS**

There is a bug in perl5.6.0 with UV's that are >= 1<<31. This will show up as tests 8 and 9 of dualvar.t failing

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---

abstract: 'Common Scalar and List utility subroutines'
author:
- 'Graham Barr <gbarr@cpan.org>'
build_requires:
1.416 strace 4.26-1.amzn2.0.1

1.416.1 Available under license :

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Version 2.1, February 1999

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1.420 axios 0.21.1

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1.428 go-multieor 1.1.0

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1.431 sbsigntool 0.6 3.2ubuntu2

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* Rob Earhart
* Rob Siemborski
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compiler/cpp/src/main.cc
compiler/cpp/src/parse/t_field.h
compiler/cpp/src/parse/t_program.h
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compiler/cpp/src/thriftl.ll
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lib/csharp/src/Protocol/TBinaryProtocol.cs
lib/csharp/src/Protocol/TField.cs
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#
# Please keep the list sorted.
#
# Use the following command to generate the list
#
git shortlog -se | awk '{print $2 " $3 " $4}'
#
# and do appropriate cleanups.

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jloup@gzip.org          madler@alumni.caltech.edu

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Ackeret, Matt
Adler, Mark
Allbery, Russ
Anderson, Jamie
Andrew, Nick
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Bates, Tom
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Peterson, Toby
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Rossum, Guido van
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Todd, Giles
Toft, Martin
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Tucker, Darren
Uhl, Robert
The following people have worked to translate sudo into other languages:

Blttermann, Mario
Bogusz, Jakub
Casagrande, Milo
Castro, Felipe
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1.455 slf4j 1.7.26

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perl-pod-simple 3.28-4.amzn2

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NAME

Pod::Simple::PullParserEndToken -- end-tokens from Pod::Simple::PullParser

SYNOPSIS

(See L<Pod::Simple::PullParser>)

DESCRIPTION

When you do $parser->get_token on a L<Pod::Simple::PullParser>, you might get an object of this class.

This is a subclass of L<Pod::Simple::PullParserToken> and inherits all its methods, and adds these methods:
This returns the tagname for this end-token object. For example, parsing a "=head1 ..." line will give you a start-token with the tagname of "head1", token(s) for its content, and then an end-token with the tagname of "head1".

=item $token->tagname("somestring")

This changes the tagname for this end-token object. You probably won't need to do this.

=item $token->tag(...)

A shortcut for $token->tagname(...)

=item $token->is_tag("somestring") or $token->is_tagname("somestring")

These are shortcuts for C<< $token->tag() eq "somestring" >>

=back

You're unlikely to ever need to construct an object of this class for yourself, but if you want to, call C<< Pod::Simple::PullParserEndToken->new( "tagname" ) >>

=head1 SEE ALSO

L<Pod::Simple::PullParserToken>, L<Pod::Simple>, L<Pod::Simple::Subclassing>

=head1 SUPPORT

Questions or discussion about POD and Pod::Simple should be sent to the pod-people@perl.org mail list. Send an empty email to pod-people-subscribe@perl.org to subscribe.

This module is managed in an open GitHub repository, L<https://github.com/theory/pod-simple/>. Feel free to fork and contribute, or to clone L<git://github.com/theory/pod-simple.git> and send patches!

Patches against Pod::Simple are welcome. Please send bug reports to <bug-pod-simple@rt.cpan.org>.

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=head1 AUTHOR

Pod::Simple was created by Sean M. Burke <sburke@cpan.org>. But don't bother him, he's retired.

Pod::Simple is maintained by:

=over

=item * Allison Randal <allison@perl.org>

=item * Hans Dieter Pearcey <hdp@cpan.org>

=item * David E. Wheeler <dwheeler@cpan.org>

=back

=cut

Found in path(s):
* /opt/cola/permits/1006412822_1635364626.07/0/perl-Pod-Simple-3.28-4.amzn2.src.rpm-cosi-expand-archive-eJuegKu/Pod-Simple-3.28.tar.gz-cosi-expand-archive-NgLEueVa/Pod-Simple-3.28/lib/Pod/Simple/PullParserEndToken.pm
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=head1 NAME

Pod::Simple::Subclassing -- write a formatter as a Pod::Simple subclass

=head1 SYNOPSIS

package Pod::SomeFormatter;
use Pod::Simple;
@ISA = qw(Pod::Simple);
$VERSION = '1.01';
use strict;

sub _handle_element_start {
  my($Parser, $element_name, $attr_hash_r) = @_; 
  ...
}

sub _handle_element_end {
  my($parser, $element_name, $attr_hash_r) = @_;  
  # NOTE: $attr_hash_r is only present when $element_name is "over" or "begin"
  # The remaining code excerpts will mostly ignore this $attr_hash_r, as it is
  # mostly useless. It is documented where "over-*" and "begin" events are
  # documented.
  ...
}

sub _handle_text {
  my($parser, $text) = @_;  
  ...
}

=head1 DESCRIPTION

This document is about using Pod::Simple to write a Pod processor,
gen generally a Pod formatter. If you just want to know about using an
existing Pod formatter, instead see its documentation and see also the
docs in L<Pod::Simple>.

The zeroeth step in writing a Pod formatter is to make sure that there
isn't already a decent one in CPAN. See L<http://search.cpan.org/> , and
run a search on the name of the format you want to render to. Also
consider joining the Pod People list
L<http://lists.perl.org/showlist.cgi?name=pod-people> and asking whether
anyone has a formatter for that format -- maybe someone cobbled one
together but just hasn't released it.

The first step in writing a Pod processor is to read L<perlpodspec>,
which contains notes information on writing a Pod parser (which has been
largely taken care of by Pod::Simple), but also a lot of requirements
and recommendations for writing a formatter.

The second step is to actually learn the format you're planning to
format to -- or at least as much as you need to know to represent Pod,
which probably isn't much.

The third step is to pick which of Pod::Simple's interfaces you want to
use -- the basic interface via Pod::Simple or L<Pod::Simple::Methody> is
event-based, sort of like L<HTML::Parser>'s interface, or sort of like
L<XML::Parser>'s "Handlers" interface), but L<Pod::Simple::PullParser>
provides a token-stream interface, sort of like L<HTML::TokeParser>'s
interface; L<Pod::Simple::SimpleTree> provides a simple tree interface,
rather like XML::Parser's "Tree" interface. Users familiar with
XML-handling will find one of these styles relatively familiar; but if
you would be even more at home with XML, there are classes that produce an XML representation of the Pod stream, notably \texttt{L<Pod::Simple::XMLOutStream>; you can feed the output of such a class to whatever XML parsing system you are most at home with.}

The last step is to write your code based on how the events (or tokens, or tree-nodes, or the XML, or however you're parsing) will map to constructs in the output format. Also sure to consider how to escape text nodes containing arbitrary text, and also what to do with text nodes that represent preformatted text (from verbatim sections).

=head1 Events

TODO intro... mention that events are supplied for implicits, like for missing \textgreater \textquotesingle\s

In the following section, we use XML to represent the event structure associated with a particular construct. That is, TODO

=over
=item \texttt{C<< $parser->_handle_element_start( I<element_name>, I<attr_hashref> ) >>}
=item \texttt{C<< $parser->_handle_element_end( I<element_name> ) >>}
=item \texttt{C<< $parser->_handle_text( I<text_string> ) >>}
=back

TODO describe

=over

=item events with an element\_name of Document

Parsing a document produces this event structure:

\begin{verbatim}
<Document start\_line="543">
...all events...
</Document>
\end{verbatim}

The value of the \texttt{I<start\_line>} attribute will be the line number of the first Pod directive in the document.
If there is no Pod in the given document, then the event structure will be this:

```xml
<Document contentless="1" start_line="543">
</Document>
```

In that case, the value of the `start_line` attribute will not be meaningful; under current implementations, it will probably be the line number of the last line in the file.

=item events with an element_name of Para

Parsing a plain (non-verbatim, non-directive, non-data) paragraph in a Pod document produces this event structure:

```xml
<Para start_line="543">
  ...all events in this paragraph...
</Para>
```

The value of the `start_line` attribute will be the line number of the start of the paragraph.

For example, parsing this paragraph of Pod:

```pod
The value of the `start_line` attribute will be the line number of the start of the paragraph.
```

produces this event structure:

```xml
<Para start_line="129">
  The value of the `start_line` attribute will be the line number of the first Pod directive in the document.
</Para>
```

=item events with an element_name of B, C, F, or I.

Parsing a `BE<lt>...E<gt>` formatting code (or of course any of its semantically identical syntactic variants `S<BE<lt>E<lt>...E<gt>E<gt>>`, or `S<BE<lt>E<lt>E<lt>E<lt>...E<gt>E<gt>E<gt>E<gt>>`, etc.) produces this event structure:

```xml
<B>
  ...stuff...
</B>
```
Currently, there are no attributes conveyed.

Parsing C, F, or I codes produce the same structure, with only a different element name.

If your parser object has been set to accept other formatting codes, then they will be presented like these B/C/F/I codes -- i.e., without any attributes.

=item events with an element_name of S

Normally, parsing an SE<lt>...E<gt> sequence produces this event structure, just as if it were a B/C/F/I code:

<S>
...stuff...
</S>

However, Pod::Simple (and presumably all derived parsers) offers the C<nbs 插_for_S> option which, if enabled, will suppress all S events, and instead change all spaces in the content to non-breaking spaces. This is intended for formatters that output to a format that has no code that means the same as SE<lt>...E<gt>, but which has a code/character that means non-breaking space.

=item events with an element_name of X

Normally, parsing an XE<lt>...E<gt> sequence produces this event structure, just as if it were a B/C/F/I code:

<X>
...stuff...
</X>

However, Pod::Simple (and presumably all derived parsers) offers the C<nix_X_codes> option which, if enabled, will suppress all X events and ignore their content. For formatters/processors that don't use X events, this is presumably quite useful.

=item events with an element_name of L

Because the LE<lt>...E<gt> is the most complex construct in the language, it should not surprise you that the events it generates are the most complex in the language. Most of complexity is hidden away in the attribute values, so for those of you writing a Pod formatter that
produces a non-hypertextual format, you can just ignore the attributes and treat an L event structure like a formatting element that (presumably) doesn’t actually produce a change in formatting. That is, the content of the L event structure (as opposed to its attributes) is always what text should be displayed.

There are, at first glance, three kinds of L links: URL, man, and pod.

When a LE<lt>I<some_url>E<gt> code is parsed, it produces this event structure:

<L content-implicit="yes" raw="that_url" to="that_url" type="url">
that_url
</L>

The C<type="url"> attribute is always specified for this type of L code.

For example, this Pod source:

L<http://www.perl.com/CPAN/authors/>

produces this event structure:

<L content-implicit="yes" raw="http://www.perl.com/CPAN/authors/" to="http://www.perl.com/CPAN/authors/" type="url">
http://www.perl.com/CPAN/authors/
</L>

When a LE<lt>I<manpage(section)>E<gt> code is parsed (and these are fairly rare and not terribly useful), it produces this event structure:

<L content-implicit="yes" raw="manpage(section)" to="manpage(section)" type="man">
manpage(section)
</L>

The C<type="man"> attribute is always specified for this type of L code.

For example, this Pod source:

L<crontab(5)>

produces this event structure:

<L content-implicit="yes" raw="crontab(5)" to="crontab(5)" type="man">
crontab(5)
</L>
In the rare cases where a man page link has a specified, that text appears in a \texttt{\textless \textsection \textgreater} attribute. For example, this Pod source:

\texttt{\textless \texttt{manpage(5)/"ENVIRONMENT"\textgreater}}

will produce this event structure:

\texttt{\textlt L content-implicit="yes" raw="manpage(5)/\"ENVIRONMENT\"" section="ENVIRONMENT" to="manpage(5)" type="man"\rt "ENVIRONMENT" in manpage(5)\lt R>}

In the rare case where the Pod document has code like \texttt{\textlt I\textless \textsection \textgreater\textlt I\textgreater\textlt I\textsection \textgreater\textlt I\textgreater\textlt I\textsection \textgreater}, then the \texttt{I} will appear as the content of the element, the \texttt{I\textsection } text will appear only as the value of the \texttt{I\texttt{to}} attribute, and there will be no \texttt{C\texttt{content-implicit="yes"}} attribute (whose presence means that the Pod parser had to infer what text should appear as the link text -- as opposed to cases where that attribute is absent, which means that the Pod parser did \texttt{I\texttt{not}} have to infer the link text, because that \texttt{L} code explicitly specified some link text.)

For example, this Pod source:

\texttt{\textless \texttt{hell itself!|manpage(5)\textgreater}}

will produce this event structure:

\texttt{\textlt L raw="hell itself!|manpage(5)" to="manpage(5)" type="man"\rt hell itself!\lt R>}

The last type of \texttt{L} structure is for links to/within Pod documents. It is the most complex because it can have a \texttt{I\texttt{to}} attribute, \texttt{I\texttt{or}} a \texttt{I\textsection } attribute, or both. The \texttt{C\texttt{type="pod"}} attribute is always specified for this type of \texttt{L} code.

In the most common case, the simple case of a \texttt{\textlt podpage\textgreater} code produces this event structure:

\texttt{\textlt L content-implicit="yes" raw="podpage" to="podpage" type="pod"\rt podpage\lt R>}

For example, this Pod source:

\texttt{\textlt Net::Ping\textgreater}
produces this event structure:

```plaintext
<L content-implicit="yes" raw="Net::Ping" to="Net::Ping" type="pod">
Net::Ping
</L>
```

In cases where there is link-text explicitly specified, it is to be found in the content of the element (and not the attributes), just as with the \textbf{LE}I<sometext>|I<manpage(section)>E<gt> case discussed above. For example, this Pod source:

```plaintext
L<Perl Error Messages|perldiag>
```

produces this event structure:

```plaintext
<L raw="Perl Error Messages|perldiag" to="perldiag" type="pod">
Perl Error Messages
</L>
```

In cases of links to a section in the current Pod document, there is a \textbf{I<section>} attribute instead of a \textbf{I<to>} attribute. For example, this Pod source:

```plaintext
L</"Member Data">
```

produces this event structure:

```plaintext
<L content-implicit="yes" raw="/\quot;Member Data\quot;" section="Member Data" type="pod">
"Member Data"
</L>
```

As another example, this Pod source:

```plaintext
L<the various attributes="/"Member Data">
```

produces this event structure:

```plaintext
<L raw="/the various attributes="/\quot;Member Data\quot;" section="Member Data" type="pod">
the various attributes
</L>
```

In cases of links to a section in a different Pod document, there are both a \textbf{I<section>} attribute and a \textbf{L<to>} attribute. For example, this Pod source:

```plaintext
L<perlsyn="/Basic BLOCKs and Switch Statements">
```
produces this event structure:

```plaintext
<"Basic BLOCKs and Switch Statements" in perlsyn
</L>
```

As another example, this Pod source:

```plaintext
L<SWITCH statements|perlsyn/"Basic BLOCKs and Switch Statements”>
```

produces this event structure:

```plaintext
<"SWITCH statements|perlsyn/"Basic BLOCKs and Switch Statements” to="perlsyn" type="pod”>
SWITCH statements
</L>
```

Incidentally, note that we do not distinguish between these syntaxes:

```plaintext
L</"Member Data”>
L</"Member Data”>
L</Member Data>
L<Member Data> [deprecated syntax]
```

That is, they all produce the same event structure (for the most part), namely:

```plaintext
<"Member Data” to="$depends_on_syntax" type="pod”>
&#34;Member Data&#34;
</L>
```

The I<raw> attribute depends on what the raw content of the C<LE<lt>E<gt>> is, so that is why the event structure is the same "for the most part”.

If you have not guessed it yet, the I<raw> attribute contains the raw, original, unescaped content of the C<LE<lt>E<gt>> formatting code. In addition to the examples above, take notice of the following event structure produced by the following C<LE<lt>E<gt>> formatting code.

```plaintext
L<click B<here>|page/About the C<-M> switch>
```

```plaintext
<"click B<here>|page/About the C<-M> switch” to="About the -M switch” to="page” type="pod”>
click B<here>
</L>
```

Specifically, notice that the formatting codes are present and unescaped in I<raw>.

```plaintext
<L content-implicit="yes" raw="page/About the C<-M> switch” to="page” type="pod”>
click B<here>
</L>
```
There is a known bug in the I<raw> attribute where any surrounding whitespace is condensed into a single " ". For example, given LE<60> linkE<62>, I<raw> will be " link".

=item events with an element_name of E or Z

While there are Pod codes EE<lt>...E<gt> and ZE<lt>E<gt>, these I<do not> produce any E or Z events -- that is, there are no such events as E or Z.

=item events with an element_name of Verbatim

When a Pod verbatim paragraph (AKA "codeblock") is parsed, it produces this event structure:

<Verbatim start_line="543" xml:space="preserve">
...text...
</Verbatim>

The value of the I<start_line> attribute will be the line number of the first line of this verbatim block. The I$xml:space> attribute is always present, and always has the value "preserve".

The text content will have tabs already expanded.

=item events with an element_name of head1 .. head4

When a "=head1 ..." directive is parsed, it produces this event structure:

<head1>
...stuff...
</head1>

For example, a directive consisting of this:

=head1 Options to C<new> et al.

will produce this event structure:

<head1 start_line="543">
Options to
</C>
new
</C>
et al.
</head1>
="head2" thru "=head4" directives are the same, except for the element names in the event structure.

=item events with an element_name of encoding

In the default case, the events corresponding to C"><encoding> directives are not emitted. They are emitted if C<keep_encoding_directive> is true. In that case they produce event structures like L<"events with an element_name of head1 .. head4"> above.

=item events with an element_name of over-bullet

When an "=over ... Z<>=back" block is parsed where the items are a bulleted list, it will produce this event structure:

<over-bullet indent="4" start_line="543">
  <item-bullet start_line="545">
    ...Stuff...
  </item-bullet>
  ...more item-bullets...
</over-bullet fake-closer="1">

The attribute I<fake-closer> is only present if it is a true value; it is not present if it is a false value. It is shown in the above example to illustrate where the attribute is (in the B<closing> tag). It signifies that the C<="over> did not have a matching C<="back>, and thus Pod::Simple had to create a fake closer.

For example, this Pod source:

=over

=item *

Something
=back

Would produce an event structure that does B<not> have the I<fake-closer> attribute, whereas this Pod source:

=over

=item *

Gasp! An unclosed =over block!
would. The rest of the over-* examples will not demonstrate this attribute, but they all can have it. See L<Pod::Checker>'s source for an example of this attribute being used.

The value of the I<indent> attribute is whatever value is after the "=over" directive, as in "=over 8". If no such value is specified in the directive, then the I<indent> attribute has the value "4".

For example, this Pod source:

=over
=item *
Stuff
=item *
Bar I<baz>!
=back

produces this event structure:

<over-bullet indent="4" start_line="10">
 <item-bullet start_line="12">
  Stuff
 </item-bullet>
 <item-bullet start_line="14">
  Bar <I>baz</I>!
 </item-bullet>
</over-bullet>

=item events with an element_name of over-number

When an "=over ... Z<>=back" block is parsed where the items are a numbered list, it will produce this event structure:

<over-number indent="4" start_line="543">
 <item-number number="1" start_line="545">
  ...Stuff...
 </item-number>
 <item-number number="2">
  ...more item-number...
 </over-bullet>

This is like the "over-bullet" event structure; but note that the contents are "item-number" instead of "item-bullet", and note that they will have a "number" attribute, which some formatters/processors may ignore
(since, for example, there's no need for it in HTML when producing an "<UL><LI>...<LI>...</UL>" structure), but which any processor may use.

Note that the values for the I<number> attributes of "item-number" elements in a given "over-number" area I<will> start at 1 and go up by one each time. If the Pod source doesn't follow that order (even though it really should should!), whatever numbers it has will be ignored (with the correct values being put in the I<number> attributes), and an error message might be issued to the user.

=item events with an element_name of over-text

These events are somewhat unlike the other over-* structures, as far as what their contents are. When an "over ... Z=back" block is parsed where the items are a list of text "subheadings", it will produce this event structure:

<over-text indent="4" start_line="543">
  <item-text>
  ...stuff...
  </item-text>
  ...stuff (generally Para or Verbatim elements)...
  <item-text>
  ...more item-text and/or stuff...
  </item-text>
</over-text>

The I<indent> and I<fake-closer> attributes are as with the other over-* events.

For example, this Pod source:

=over

=item Foo

Stuff

=item Bar I<baz>!

Quux

=back

produces this event structure:

<over-text indent="4" start_line="20">
  <item-text start_line="22">
    Foo
  </item-text>
</over-text>
=item events with an element_name of over-block

These events are somewhat unlike the other over-* structures, as far as what their contents are. When an "=over ... Z<>=back" block is parsed where there are no items, it will produce this event structure:

<over-block indent="4" start_line="543">
...stuff (generally Para or Verbatim elements)...  
</over-block>

The I<indent> and I<fake-closer> attributes are as with the other over-* events.

For example, this Pod source:

=over

For cutting off our trade with all parts of the world

For transporting us beyond seas to be tried for pretended offenses

He is at this time transporting large armies of foreign mercenaries to complete the works of death, desolation and tyranny, already begun with circumstances of cruelty and perfidy scarcely paralleled in the most barbarous ages, and totally unworthy the head of a civilized nation.

=back

will produce this event structure:

<over-block indent="4" start_line="2">
For cutting off our trade with all parts of the world

For transporting us beyond seas to be tried for pretended offenses

He is at this time transporting large armies of [...more text...]

=item events with an element_name of over-empty

B<Note: These events are only triggered if C<parse_empty_lists()> is set to a true value.>

These events are somewhat unlike the other over-* structures, as far as what their contents are. When an "=over ... Z<>=back" block is parsed where there is no content, it will produce this event structure:

<over-empty indent="4" start_line="543">
</over-empty>

The I<indent> and I<fake-closer> attributes are as with the other over-* events.

For example, this Pod source:

=over

=over

=back

=back

will produce this event structure:

<over-block indent="4" start_line="1">
<over-empty indent="4" start_line="3">
</over-empty>
</over-block>

Note that the outer C<="over"> is a block because it has no C<="item">s but still has content: the inner C<="over">. The inner C<="over">, in turn, is completely empty, and is treated as such.

=item events with an element_name of item-bullet
=head1 More Pod::Simple Methods

Pod::Simple provides a lot of methods that aren't generally interesting to the end user of an existing Pod formatter, but some of which you might find useful in writing a Pod formatter. They are listed below. The first several methods (the accept_* methods) are for declaring the capabilities of your parser, notably what C<for I<targetname>> sections it's interested in, what extra NE<lt>...E<gt> codes it accepts beyond the ones described in the I<perlpod>.

=item C<< $parser->accept_targets( I<SOMEVALUE> ) >>

As the parser sees sections like:

=for html  <img src="fig1.jpg">

or

=begin html

  <img src="fig1.jpg">

=end html
If you want to process all sections, even if they're not targeted for you, call this before you start parsing:

$parser->accept_targets('*);

=item C<< $parser->accept_targets_as_text( I<SOMEVALUE> ) >>

This is like accept_targets, except that it specifies also that the content of sections for this target should be treated as Pod text even if the target name in "=for I<targetname>" doesn't start with a ":".

At time of writing, I don't think you'll need to use this.

=item C<< $parser->accept_codes( I<Codename>, I<Codename>... ) >>

This tells the parser that you accept additional formatting codes, beyond just the standard ones (I B C L F S X, plus the two weird ones you don't actually see in the parse tree, Z and E). For example, to also accept codes "N", "R", and "W":

$parser->accept_codes( qw( N R W ) );

B<TODO: document how this interacts with =extend, and long element names>

=item C<< $parser->accept_directive_as_data( I<directive_name> ) >>

=item C<< $parser->accept_directive_as_verbatim( I<directive_name> ) >>

=item C<< $parser->accept_directive_as_processed( I<directive_name> ) >>

In the unlikely situation that you need to tell the parser that you will accept additional directives ("=foo" things), you need to first set the parser to treat its content as data (i.e., not really processed at all), or as verbatim (mostly just expanding tabs), or as processed text (parsing formatting codes like BE<lt>...E<gt>).

For example, to accept a new directive "=method", you'd presumably use:

$parser->accept_directive_as_processed("method");

so that you could have Pod lines like:
Making up your own directives breaks compatibility with other Pod formatters, in a way that using ":for $target ..." lines doesn't; however, you may find this useful if you're making a Pod superset format where you don't need to worry about compatibility.

Setting this attribute to a true value (and by default it is false) will turn "$E...E" sequences into sequences of words separated by \xA0 (non-breaking space) characters. For example, it will take this:

I like $Dutch apple pie, don't you?

and treat it as if it were:

I like Dutch apple pie, don't you?

This is handy for output formats that don't have anything quite like an "$E" code, but which do have a code for non-breaking space.

There is currently no method for going the other way; but I can probably provide one upon request.

This returns a string reporting the $VERSION value from your module (and its classname) as well as the $VERSION value of Pod::Simple. Note that PerlPodSpec requires output formats (wherever possible) to note this detail in a comment in the output format. For example, for some kind of SGML output format:

print OUT "!-- \n", $parser->version_report, "\n--";

This returns the count of Pod paragraphs seen so far.

This is the current line number being parsed. But you might find the "line_number" event attribute more accurate, when it is present.
This attribute, when set to a true value (and it is false by default) ignores any "XE<lt>...E<gt>" sequences in the document being parsed. Many formats don't actually use the content of these codes, so have no reason to process them.

This attribute, when set to a true value (it is false by default) will keep C<=encoding> and its content in the event structure. Most formats don't actually need to process the content of an C<=encoding> directive, even when this directive sets the encoding and the processor makes use of the encoding information. Indeed, it is possible to know the encoding without processing the directive content.

This attribute, when set to a true value (and it is false by default) makes sure that only one event (or token, or node) will be created for any single contiguous sequence of text. For example, consider this somewhat contrived example:

I just LOVE Z<>hotE<32>apple pie!

When that is parsed and events are about to be called on it, it may actually seem to be four different text events, one right after another: one event for "I just LOVE ", one for "hot", one for " ", and one for "apple pie!". But if you have merge_text on, then you're guaranteed that it will be fired as one text event: "I just LOVE hot apple pie!".

This specifies code that should be called when a code line is seen (i.e., a line outside of the Pod). Normally this is undef, meaning that no code should be called. If you provide a routine, it should start out like this:

```
sub get_code_line {  # or whatever you'll call it
  my($line, $line_number, $parser) = @_;  
  ...
}
```

Note, however, that sometimes the Pod events aren't processed in exactly
the same order as the code lines are -- i.e., if you have a file with
Pod, then code, then more Pod, sometimes the code will be processed (via
whatever you have code_handler call) before the all of the preceding Pod
has been processed.

=item C<< $parser->cut_handler( I<CODE_REF>  ) >>

This is just like the code_handler attribute, except that it's for
"=cut" lines, not code lines. The same caveats apply. "=cut" lines are
unlikely to be interesting, but this is included for completeness.

=item C<< $parser->pod_handler( I<CODE_REF>  ) >>

This is just like the code_handler attribute, except that it's for
"=pod" lines, not code lines. The same caveats apply. "=pod" lines are
unlikely to be interesting, but this is included for completeness.

=item C<< $parser->whiteline_handler( I<CODE_REF>  ) >>

This is just like the code_handler attribute, except that it's for
lines that are seemingly blank but have whitespace (" " and/or "\t") on them,
ot code lines. The same caveats apply. These lines are unlikely to be
interesting, but this is included for completeness.

=item C<< $parser->whine( I<linenumber>, I<complaint string> ) >>

This notes a problem in the Pod, which will be reported to in the "Pod
Errors" section of the document and/or send to STDERR, depending on the
values of the attributes C<no_whining>, C<no_errata_section>, and
C<complain_stderr>.

=item C<< $parser->scream( I<linenumber>, I<complaint string> ) >>

This notes an error like C<whine> does, except that it is not
suppressible with C<no_whining>. This should be used only for very
serious errors.

=item C<< $parser->source_dead(1) >>

This aborts parsing of the current document, by switching on the flag
that indicates that EOF has been seen. In particularly drastic cases,
you might want to do this. It's rather nicer than just calling
C<died>!
Some subclasses that indiscriminately dump event attributes (well, except for ones beginning with "~") can use this object attribute for refraining to dump the "start_line" attribute.

This attribute, if set to true, will suppress reports of non-fatal error messages. The default value is false, meaning that complaints are reported. How they get reported depends on the values of the attributes no_errata_section and complain_stderr.

This attribute, if set to true, will suppress generation of an errata section. The default value is false -- i.e., an errata section will be generated.

This attribute, if set to true will send complaints to STDERR. The default value is false -- i.e., complaints do not go to STDERR.

Some formatter subclasses use this as a flag for whether output should have prologue and epilogue code omitted. For example, setting this to true for an HTML formatter class should omit the "<html><head><title>...</title><body>..." prologue and the "</body></html>" epilogue.

If you want to set this to true, you should probably also set no_whining or at least no_errata_section to true.

If you set this attribute to a true value, the parser will try to preserve whitespace in the output. This means that such formatting conventions as two spaces after periods will be preserved by the parser. This is primarily useful for output formats that treat whitespace as significant (such as text or *roff, but not HTML).

If this attribute is set to true, the parser will not ignore empty blocks. The type of C<==over> will be I<empty>, documented
above, L<events with an element_name of over-empty>.

=back

=head1 SEE ALSO

L<Pod::Simple> -- event-based Pod-parsing framework

L<Pod::Simple::Methody> -- like Pod::Simple, but each sort of event
calls its own method (like C<start_head3>)

L<Pod::Simple::PullParser> -- a Pod-parsing framework like Pod::Simple,
but with a token-stream interface

L<Pod::Simple::SimpleTree> -- a Pod-parsing framework like Pod::Simple,
but with a tree interface

L<Pod::Simple::Checker> -- a simple Pod::Simple subclass that reads
documents, and then makes a plaintext report of any errors found in the
document

L<Pod::Simple::DumpAsXML> -- for dumping Pod documents as tidily
indented XML, showing each event on its own line

L<Pod::Simple::XMLOutStream> -- dumps a Pod document as XML (without
introducing extra whitespace as Pod::Simple::DumpAsXML does).

L<Pod::Simple::DumpAsText> -- for dumping Pod documents as tidily
indented text, showing each event on its own line

L<Pod::Simple::LinkSection> -- class for objects representing the values
of the TODO and TODO attributes of LE<lt>...E<gt> elements

L<Pod::Escapes> -- the module the Pod::Simple uses for evaluating
EE<lt>...E<gt> content

L<Pod::Simple::Text> -- a simple plaintext formatter for Pod

L<Pod::Simple::TextContent> -- like Pod::Simple::Text, but
makes no effort for indent or wrap the text being formatted

L<Pod::Simple::HTML> -- a simple HTML formatter for Pod

L<perlpod|perlpod>

L<perlpodspec|perlpodspec>

L<perldoc>
=head1 SUPPORT

Questions or discussion about POD and Pod::Simple should be sent to the pod-people@perl.org mail list. Send an empty email to pod-people-subscribe@perl.org to subscribe.

This module is managed in an open GitHub repository, L<https://github.com/theory/pod-simple/>. Feel free to fork and contribute, or to clone L<git://github.com/theory/pod-simple.git> and send patches!

Patches against Pod::Simple are welcome. Please send bug reports to <bug-pod-simple@rt.cpan.org>.

=head1 COPYRIGHT AND DISCLAIMERS

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This library is free software; you can redistribute it and/or modify it under the same terms as Perl itself.

This program is distributed in the hope that it will be useful, but without any warranty; without even the implied warranty of merchantability or fitness for a particular purpose.

=head1 AUTHOR

Pod::Simple was created by Sean M. Burke <sburke@cpan.org>. But don't bother him, he's retired.

Pod::Simple is maintained by:

=over

=item * Allison Randal C<allison@perl.org>

=item * Hans Dieter Pearcey C<hdp@cpan.org>

=item * David E. Wheeler C.dwheeler@cpan.org>

=back

=for notes

Hm, my old podchecker version (1.2) says:

*** WARNING: node 'http://search.cpan.org/' contains non-escaped | or / at line 38 in file Subclassing.pod
*** WARNING: node 'http://lists.perl.org/showlist.cgi?name=pod-people' contains non-escaped | or / at line 41 in file Subclassing.pod

Yes, L<...> is hard.
Found in path(s):
* /opt/cola/permits/1006412822_1635364626.07/0/perl-Pod-Simple-3.28-4.amzn2.src.rpm-cosi-expand-archive-
elJuegKu/Pod-Simple-3.28.tar.gz-cosi-expand-archive-NgLEueVa/Pod-Simple-
3.28/lib/Pod/Simple/Subclassing.pod
No license file was found, but licenses were detected in source scan.

=head1 NAME

Pod::Simple::DumpAsXML -- turn Pod into XML

=head1 SYNOPSIS

perl -MPod::Simple::DumpAsXML -e \
    "exit Pod::Simple::DumpAsXML->filter(shift)->any_errata_seen" \
    thingy.pod

=head1 DESCRIPTION

Pod::Simple::DumpAsXML is a subclass of L<Pod::Simple> that parses Pod and turns it into indented and wrapped XML. This class is of interest to people writing Pod formatters based on Pod::Simple.

Pod::Simple::DumpAsXML inherits methods from L<Pod::Simple>.

=head1 SEE ALSO

L<Pod::Simple::XMLOutStream> is rather like this class.
Pod::Simple::XMLOutStream's output is space-padded in a way that's better for sending to an XML processor (that is, it has no ignorable whitespace). But Pod::Simple::DumpAsXML's output is much more human-readable, being (more-or-less) one token per line, with line-wrapping.

L<Pod::Simple::DumpAsText> is rather like this class, except that it doesn't dump with XML syntax. Try them and see which one you like best!

L<Pod::Simple>, L<Pod::Simple::DumpAsXML>

The older libraries L<Pod::PXML>, L<Pod::XML>, L<Pod::SAX>

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=item * David E. Wheeler C<dwheeler@cpan.org>

=back

=cut

Found in path(s): 
* /opt/cola/permits/1006412822_1635364626.07/0/perl-Pod-Simple-3.28-4.amzn2.src.rpm-cosi-expand-archive-
eIuegKu/Pod-Simple-3.28.tar.gz-cosi-expand-archive-NgLEueVa/Pod-Simple-3.28/lib/Pod/Simple/DumpAsXML.pm
No license file was found, but licenses were detected in source scan.
=head1 NAME

Pod::Simple::HTMLBatch - convert several Pod files to several HTML files

=head1 SYNOPSIS

perl -MPod::Simple::HTMLBatch -e 'Pod::Simple::HTMLBatch::go' in out

=head1 DESCRIPTION

This module is used for running batch-conversions of a lot of HTML documents

This class is NOT a subclass of Pod::Simple::HTML (nor of bad old Pod::Html) -- although it uses Pod::Simple::HTML for doing the conversion of each document.

The normal use of this class is like so:

use Pod::Simple::HTMLBatch;
my $batchconv = Pod::Simple::HTMLBatch->new;
$batchconv->some_option( some_value );
$batchconv->some_other_option( some_other_value );
$batchconv->batch_convert( \@search_dirs, $output_dir );

=head2 FROM THE COMMAND LINE

Note that this class also provides (but does not export) the function Pod::Simple::HTMLBatch::go.
This is basically just a shortcut for C<< Pod::Simple::HTMLBatch->batch_convert(@ARGV) >>.
It's meant to be handy for calling from the command line.

However, the shortcut requires that you specify exactly two command-line arguments, C<indirs> and C<outdir>.

Example:

% mkdir out_html
% perl -MPod::Simple::HTMLBatch -e Pod::Simple::HTMLBatch::go @INC out_html
   (to convert the pod from Perl's @INC files under the directory ./out_html)

(Note that the command line there contains a literal atsign-I-N-C. This is handled as a special case by batch_convert, in order to save you having to enter the odd-looking "" as the first command-line parameter when you mean "just use whatever's in @INC".)
Example:

% mkdir ../seekrut
% chmod og-rx ../seekrut
% perl -MPod::Simple::HTMLBatch -e Pod::Simple::HTMLBatch::go . ../seekrut
   (to convert the pod under the current dir into HTML
    files under the directory ./seekrut)

Example:

% perl -MPod::Simple::HTMLBatch -e Pod::Simple::HTMLBatch::go happydocs .
   (to convert all pod from happydocs into the current directory)

=head1 MAIN METHODS

=over

=item $batchconv = Pod::Simple::HTMLBatch->new;

This TODO

=item $batchconv->batch_convert( I<indirs>, I<outdir> );

this TODO

=item $batchconv->batch_convert( undef , ...);

=item $batchconv->batch_convert( q{@INC}, ...);

These two values for I<indirs> specify that the normal Perl @INC

=item $batchconv->batch_convert( \@dirs , ...);

This specifies that the input directories are the items in
the arrayref C<\@dirs>.

=item $batchconv->batch_convert( "somedir" , ...);

This specifies that the director "somedir" is the input.
(This can be an absolute or relative path, it doesn't matter.)

A common value you might want would be just "," for the current
directory:
This specifies that you want the dirs "somedir", "someother", and "also" scanned, just as if you'd passed the arrayref C<\[qw( somedir someother also)\]>. Note that a ";"-separator is normal under Unix, but Under MSWin, you'll need C<somedir;someother;also> instead, since the pathsep on MSWin is ";" instead of ":". (And I<that> is because ";" often comes up in paths, like C<"c:/perl/lib">.)

(Exactly what separator character should be used, is gotten from C<$Config::Config{'path_sep'}>, via the L<Config> module.)

This specifies that you want the HTML output to go into the current directory.

(Note that a missing or undefined value means a different thing in the first slot than in the second. That's so that C<batch_convert()> with no arguments (or undef arguments) means "go from @INC, into the current directory.)

This specifies that you want the HTML output to go into the directory 'somedir'.
(This can be an absolute or relative path, it doesn't matter.)

Note that you can also call C<batch_convert> as a class method, like so:

Pod::Simple::HTMLBatch->batch_convert( ... );

That is just short for this:

Pod::Simple::HTMLBatch-> new-> batch_convert(...);

That is, it runs a conversion with default options, for whatever inputdirs and output dir you specify.
**ACCESSOR METHODS**

The following are all accessor methods -- that is, they don't do anything on their own, but just alter the contents of the conversion object, which comprises the options for this particular batch conversion.

We show the "put" form of the accessors below (i.e., the syntax you use for setting the accessor to a specific value). But you can also call each method with no parameters to get its current value. For example, `C<$self->contents_file()>` returns the current value of the contents_file attribute.

```
=item $batchconv->verbose( I<nonnegative_integer> );
```

This controls how verbose to be during batch conversion, as far as notes to STDOUT (or whatever is selected) about how the conversion is going. If 0, no progress information is printed. If 1 (the default value), some progress information is printed. Higher values print more information.

```
=item $batchconv->index( I<true-or-false> );
```

This controls whether or not each HTML page is liable to have a little table of contents at the top (which we call an "index" for historical reasons). This is true by default.

```
=item $batchconv->contents_file( I<filename> );
```

If set, should be the name of a file (in the output directory) to write the HTML index to. The default value is "index.html". If you set this to a false value, no contents file will be written.

```
=item $batchconv->contents_page_start( I<HTML_string> );
```

This specifies what string should be put at the beginning of the contents page. The default is a string more or less like this:

```
<html>
<head><title>Perl Documentation</title></head>
<body class='contentspage'>
<h1>Perl Documentation</h1>
```
This specifies what string should be put at the end of the contents page. The default is a string more or less like this:

<pre>Pod::Simple::HTMLBatch v3.01 under Perl v5.008 At Fri May 14 22:26:42 2004 GMT, which is Fri May 14 14:26:42 2004 local time.</pre>

TODO

TODO

If true (the default value), we autogenerate some CSS files in the output directory, and set our HTML files to use those.

TODO: continue

If true (the default value), we autogenerate a JavaScript in the output directory, and set our HTML files to use it. Currently, the JavaScript is used only to get the browser to remember what stylesheet it prefers.

TODO: continue

This sets what class is used for rendering the files. The default is "Pod::Simple::HTML". If you set it to something else, it should probably be a subclass of Pod::Simple::HTML, and you should C<require> or C<use> that class so that it's loaded before Pod::Simple::HTMLBatch tries loading it.
This sets what class is used for searching for the files. The default is "Pod::Simple::Search". If you set it to something else, it should probably be a subclass of Pod::Simple::Search, and you should require or use that class so that it's loaded before Pod::Simple::HTMLBatch tries loading it.

back

head1 NOTES ON CUSTOMIZATION

TODO

call add_css($someurl) to add stylesheet as alternate
call add_css($someurl,1) to add as primary stylesheet

call add_javascript

subclass Pod::Simple::HTML and set $batchconv->html_render_class to that classname
and maybe override $page->batch_mode_page_object_init($self, $module, $infile, $outfile, $depth)
or maybe override $batchconv->batch_mode_page_object_init($page, $module, $infile, $outfile, $depth)
subclass Pod::Simple::Search and set $batchconv->search_class to that classname

head1 ASK ME!

If you want to do some kind of big pod-to-HTML version with some particular kind of option that you don't see how to achieve using this module, email me (C<sburke@cpan.org>) and I'll probably have a good idea how to do it. For reasons of concision and energetic laziness, some methods and options in this module (and the dozen modules it depends on) are undocumented; but one of those undocumented bits might be just what you're looking for.

head1 SEE ALSO

L<Pod::Simple>, L<Pod::Simple::HTMLBatch>, L<perlpod>, L<perlpodspec>

head1 SUPPORT
Questions or discussion about POD and Pod::Simple should be sent to the
pod-people@perl.org mail list. Send an empty email to
pod-people-subscribe@perl.org to subscribe.

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L<https://github.com/theory/pod-simple/>. Feel free to fork and contribute, or
to clone L<git://github.com/theory/pod-simple.git> and send patches!

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<bug-pod-simple@rt.cpan.org>.

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under the same terms as Perl itself.

This program is distributed in the hope that it will be useful, but
without any warranty; without even the implied warranty of
merchantability or fitness for a particular purpose.

=head1 AUTHOR

Pod::Simple was created by Sean M. Burke <sburke@cpan.org>.
But don't bother him, he's retired.

Pod::Simple is maintained by:

=over

=item * Allison Randal C<allison@perl.org>

=item * Hans Dieter Pearcey C<hdp@cpan.org>

=item * David E. Wheeler C<dwheeler@cpan.org>

=back

=cut

Found in path(s):
* /opt/cola/permits/1006412822_1635364626.07/0/perl-Pod-Simple-3.28-4.amzn2.src.rpm-cosi-expand-archive-e1JuegKu/Pod-Simple-3.28.tar.gz-cosi-expand-archive-NgLueVa/Pod-Simple-3.28/lib/Pod/Simple/HTMLBatch.pm
No license file was found, but licenses were detected in source scan.

# TODO: let it be an option whether a given subclass even wants little treelets?
=head1 NAME

Pod::Simple::LinkSection -- represent "section" attributes of L codes

=head1 SYNOPSIS

# a long story

=head1 DESCRIPTION

This class is not of interest to general users.

Pod::Simple uses this class for representing the value of the "section" attribute of "L" start-element events. Most applications can just use the normal stringification of objects of this class; they stringify to just the text content of the section, such as "foo" for
C<< LZ<< Stuff/foo>> >>, and "bar" for
C<< LZ<< Stuff/bIZ<<ar>> >>.

However, anyone particularly interested in getting the full value of the treelet, can just traverse the content of the treelet
@$treelet_object. To wit:

% perl -MData::Dumper -e
    "use base qw(Pod::Simple::Methody);
    sub start_L { print Dumper($_[1]{'section'} ) } 
    __PACKAGE__->new->parse_string_document('=head1 L<Foo/bI<ar>baz>>')
" 

Output:
$VAR1 = bless( [
    ",
    
    
    'b',
    bless( [
        'T',
        
        'ar'
    ], 'Pod::Simple::LinkSection' ),
    'baz'
], 'Pod::Simple::LinkSection' );

But stringify it and you get just the text content:
% perl -MData::Dumper -e
  "use base qw(Pod::Simple::Methody);
  sub start_L { print Dumper( "" . $_[1]{'section'} ) }
  __PACKAGE__->new->parse_string_document("=head1 L<Foo/bI<ar>baz>>")
"

Output:
$VAR1 = 'barbaz';

=head1 SEE ALSO

L<Pod::Simple>

=head1 SUPPORT

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pod-people@perl.org mail list. Send an empty email to
pod-people-subscribe@perl.org to subscribe.

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L<https://github.com/theory/pod-simple/>. Feel free to fork and contribute, or
to clone L<git://github.com/theory/pod-simple.git> and send patches!

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But don't bother him, he's retired.

Pod::Simple is maintained by:

=over

=item * Allison Randal C<allison@perl.org>
NAME

Pod::Simple::PullParserTextToken -- text-tokens from Pod::Simple::PullParser

SYNOPSIS

(See L<Pod::Simple::PullParser>)

DESCRIPTION

When you do $parser->get_token on a L<Pod::Simple::PullParser>, you might get an object of this class.

This is a subclass of L<Pod::Simple::PullParserToken> and inherits all its methods, and adds these methods:

over

$token->text

This returns the text that this token holds. For example, parsing CZ<<foo>> will return a C start-token, a text-token, and a C end-token. And if you want to get the "foo" out of the text-token, call C<< $token->text >>

$token->text("somestring")

This changes the string that this token holds. You probably won't need to do this.

$token->text_r()

This returns a scalar reference to the string that this token holds. This can be useful if you don't want to memory-copy the potentially large text value (well, as large as a paragraph or a verbatim block)
as calling $token->text would do.

Or, if you want to alter the value, you can even do things like this:

for ( $[ $token->text_r ] ) { # Aliases it with $_ !

    s/ The / the /g; # just for example

    if( 'A' eq chr(65) ) { # (if in an ASCII world)
        tr/\xA0//;
        tr/\xAD//d;
    }

    ...or however you want to alter the value...
}

=back

You're unlikely to ever need to construct an object of this class for
yourself, but if you want to, call

C<<
Pod::Simple::PullParserTextToken->new( I<text> )
>>

=head1 SEE ALSO

L<Pod::Simple::PullParserToken>, L<Pod::Simple>, L<Pod::Simple::Subclassing>

=head1 SUPPORT

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=back
=cut

Found in path(s):
* /opt/cola/permits/1006412822_1635364626.07/0/perl-Pod-Simple-3.28-4.amzn2.src.rpm-cosi-expand-archive-
elJuegKu/Pod-Simple-3.28.tar.gz-cosi-expand-archive-NgLEueVa/Pod-Simple-
3.28/lib/Pod/Simple/PullParserTextToken.pm
No license file was found, but licenses were detected in source scan.

=head1 NAME

Pod::Simple::TextContent -- get the text content of Pod

=head1 SYNOPSIS

TODO

perl -MPod::Simple::TextContent -e \n"exit Pod::Simple::TextContent->filter(shift)->any_errata_seen" \nthingy.pod

=head1 DESCRIPTION

This class is that parses Pod and dumps just the text content. It is
mainly meant for use by the Pod::Simple test suite, but you may find
some other use for it.

This is a subclass of L<Pod::Simple> and inherits all its methods.
=head1 SEE ALSO

L<Pod::Simple>, L<Pod::Simple::Text>, L<Pod::Spell>

=head1 SUPPORT

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=back

=cut
License: GPL+ or Artistic

# ChangeLog for Pod::Simple dist
#-----------------------------------------------

2013-05-04  David E. Wheeler <david@justatheory.org>
* Release 3.28

Removed use of 'done_testing' in t/white.t, which was added in v3.27. Thanks to Paul Howarth for the catch.

Fixed improperly calculated number of skipped tests in t/xhtml01.t when HTML::Entities is not installed.

2013-05-03  David E. Wheeler <david@justatheory.org>
* Release 3.27

Added new warnings as defined by Pod::Checker, thanks to RJBS:
+ "\=over" without "\=back"
+ "L<>" starts or ends with whitespace
+ raw "|" or "/" in "L.<text|link>" text

Added ->keep_encoding_directive, which is false by default, to prevent formatters from emitting a document's '='encoding' directive in most cases. That they emitted the encoding was a bug introduced in v3.26 (RT #84093). Now, only the DumpAsText and DumpAsXML formats set it to true. Patch from Patrice Dumas.

2013-02-27  David E. Wheeler <david@justatheory.org>
* Release 3.26

Fixed another test script to skip all tests when Encode is not installed.

Added 'encoding()' and 'detected_encoding()' to return the current encoding and the encoding actually to decode the input file. The value from "=encoding" is also now kept in the output tree. Patch
Improved the warning when "=item" types mismatch within one "=over"/=back" block.

Fixed corner case bug for unlikely scenario in which non-UTF-8 text could be parsed as UTF-8. Grant McLean.

XHTML IDs can no longer end with punctuation. Thanks to Smylers for the patch.

Fixed test failure on Perl 5.6.2.

Changed the default installation location from "perl" to "site" on 5.12 and higher, since as of that version of Perl, dual-life modules no longer need to be installed in "perl" to replace in-core versions. Patch from tzccinct.

Fixed hash order dependency test failures on Perl 5.17. Thanks to Yves Orton for the patch.

Inlined the code that tries to guess a Pod file's encoding. This reduces the time Pod::Simple takes to build the core Perl documentation by 15-20%. Thanks to Dagfinn Ilmari Mannsker for the patch!

Added a warning when "=item" types mismatch within one "=over"/=back" block. Marc Green/Google Summer of Code, with assist from RJBS.

Fixed regression introduced in 3.22 in which "C<>" tags were incorrectly treated as verbatim text in table of contents items emitted by Pod::Simple::XHTML. Thanks to Randy Staunmer for the report and to Thomas Sibley for the fix!

Loosened up the matching of "L<>" tags for man pages so that they allow names with dots, underscores, and any other characters other than "/", just so long as they end in '(([-a-zA-Z0-9]+])'. Thanks to Dave Rolsky and Kevin Ryde for the reports (RT #82975 & RT #82972).

Fixed inverted mapping of "keyboard" to "kbd" in
Open Source Used In Cisco Cloud Mailbox Defense -CMD (Project Raptor) April 2021

Pod::Simple::HTML. Thanks to Robert Boisvert for the bug report (RT #79201).

Added two new Tagmap entries to Pod::Simple::HTML: "preformat" maps to "pre", and "teletype" maps to "tt". Suggested by Robert Boisvert (RT #79201).

"X< >" tags are now ignored by the pull parser when it searches for titles, as is any trailing whitespace. Thanks to Patrice Dumas for the report (RT #74389).

2012-08-14 David E. Wheeler <david@justatheory.org>
* Release 3.23

Eliminated nested elements in table of contents (index) items output of Pod::Simple::XHTML. This was especially problematic for headers that included links, as the TOC then got nested anchor elements, which simply would not work. Thanks to Ben Bullock for the report and test case (RT #77686).

Fixed semantically invalid nested XHTML generated by Pod::Simple::XHTML since v3.21. Gisle Aas.

Improved support for nested "C< >" tags in Pod::Simple::XHTML. Gisle Aas.

No longer tries to decode a string with the "utf8" flag set, as the double-decoding only triggered an error. Grant McLean.

Added documentation note that the API expects encoded text (octets). Grant McLean.

Added "parse_characters()" option to specify that strings to are already decoded from octets into characters. Grant McLean.

2012-05-27 David E. Wheeler <david@justatheory.org>
* Release 3.22

Fix but where Pod::Simple would whine about non-ASCII bytes in code or comments. Now only does so for Pod (in the absence of an "=encoding" tag. Broken in 3.21. Grant McLean.

2012-05-23 David E. Wheeler <david@justatheory.org>
* Release 3.21

NOTE: COMPATABILITY CHANGE: The 'codes_in_verbatim' option in Pod::Simple::XHTML is no longer enabled by default. This brings it agreement with the other formatting classes, and eliminates
unexpected behavior in XHTML-formatted Pod. Users who depended on this functionality can still get it by enabling 'codes_in_verbatim' in their code.

Fixed some typos in the documentation. Thanks to Jonathan Yu via the Debian packagers via Florian Ragwitz (RT #75532).

Now emit a warning the first time a non-ASCII byte is encountered when no "=encoding" has been seen. Grant McLean.

When a non-ASCII byte is encountered before an "=encoding" line has been seen, a heuristic (as described in perlpodspec) is applied to select UTF-8 encoding if the non-ASCII bytes form a valid UTF-8 byte sequence, or Latin-1 otherwise. Grant McLean.

Added 'handle_code' method to Pod::Simple::XHTML. This allows subclasses to override the handling of verbatim blocks, and makes for a more cohesive interface, to boot. Gisle Aas.

Subsequent text segments are now joined together and passed as a single unit to text handling code. This makes it easier for custom handlers to process complete blocks of text in a single call to 'handle_text', rather than in dribs and drabs. Gisle Aas.

Replaced naive text wrapping code in Pod::Simple::DumpAsXML with Text::Wrap, which was already used for similar purposes elsewhere in Pod::Simple. Gisle Aas.

2012-03-01   David E. Wheeler <david@justatheory.org>
* Release 3.20

Removed use of 'done_testing' in t/xhtml15.t, which was added in v3.19. Thanks to Paul Howarth for the catch.

Fixed quoting of links in a regular expression Pod::Simple::Text. Reported by Father Chrysostomos.

Fix test failure on case-insensitiive, non-case-preserving file systems (VMS I'm looking at *you*). Patch from Craig A. Berry.

Pod::Simple::HTML no longer emits "href="#___top"" if a TOC (index) is not output. Patch from Rick Myers.

Fixed links in the TOC of XHTML output to use IDs derived from encoded text, rather than raw Pod, so that it will link to the ID actually generated for the section. Thanks to Randy Stauner for the report (with test case!) (RT #72544).
PullParser now throws an exception on an attempt to set a source more than once. Necessary because data from the previous source will be cached, so the new source would be ignored anyway. Create a newPullParser, instead. Thanks to Paul Boldra for the report (RT #74265).

2011-08-23  David E. Wheeler <david@justatheory.org>
* Release 3.19

Fixed occasional test failure when tests are run in parallel
(HARNESS_OPTIONS=j6:c). Thanks to Alexei Znamensky for the report and Marc Green for the fix.

Added "pod_handler" option. This is a callback that can be used to inspect the content on a "=pod" line. Marc Green/Google Summer of Code.

Added tests for proper line-ending parsing from the previous release. The tests were in the repository, but didn't make it into the MANIFEST or, therefore, the release. Reported by Marc Green.

Added the "parse_empty_lists" option. When enabled, Pod::Simple will recognize empty lists (that is, a blocks with '=over' and '=back' but nothing in between). Disabled by default. Marc Green/Google Summer of Code.

Added the "whiteline_handler" attribute. It's much like "code_handler", "cut_handler", and "pod_handler", except it's triggered on lines that contain only whitespace characters. Marc Green/Google Summer of Code.

Added "raw" attribute to L<> treelet that contains the L<>'s raw contents. Marc Green/Google Summer of Code.

Pod directives autoclosed by Pod::Simple are now denoted as such by the new "fake_closer" attribute. Marc Green/Google Summer of Code.

Fixed incompatibility with Pod::Simple::HTMLBatch in Pod::Simple::XHTML. Patch by Eric Johnson.

2011-07-16  David E. Wheeler <david@justatheory.org>
* Release 3.18

Pod::Simple now properly parses Pod files using Mac OS Classic line-endings (\r). Marc Green/Google Summer of Code.

Fixed test failure in 't/search50.t when the test finds a .pod but
the module is in a .pm. Thanks to the cpan-testers who reported this when the test searched for Capture::Tiny.

2011-07-09  David E. Wheeler <david@justatheory.org>
* Release 3.17

Documented tertiary methods. Patch from Shawn H Corey.

Added "backlink" option to Pod::Simple::XHTML. Thanks to Marc Green/Google Summer of Code for the pull request.

Typos fixed in Pod::Simple::HTMLBatch. Reported by Shawn H Corey.

Fixed quoting of value returned by a "strip_verbatim_indent()" code reference so that regex meta characters are properly escaped.

Added "anchor_items" option to Pod::Simple::XHTML. This allows text items (which are output as <dt> elements) to have IDs that can be referenced in the "#" part of a URL. Marc Green/Google Summer of Code.

Added "recurse" option to Pod::Simple::Search. It's enabled by default; disable it to turn off recursion into subdirectories. Marc Green/Google Summer of Code.

Added documentation to clarify the behavior of the "content_seen" method. Thanks to Olaf Alders for the pull request.

2011-03-14  David E. Wheeler <david@justatheory.org>
* Release 3.16

Fixed invalid HTML generated for nested lists by Pod::Simple::XHTML (Fitz Elliott).

Replaced the invalid "<nobr>" tag -- created for "S<>" -- with '<span style="white-space: nowrap;">' (Fitz Elliott).

Fixed some nerbles in our own Pod (Michael Stevens)

Improved the "Minimal code" example in Pod::Simple::HTML. The key is to use pase_file(), not parse_from_file() (which should otherwise be undocumented, and is just there for Pod::Parser compatibility. Thanks to prodding from var Arnfjr Bjarmason (RT #65428).

Added the html_charset() and html_encode_chars() attributes to Pod::Simple::XHTML. Inspired by a bug report from Agent Zhang () (RT #29587).
Added "Minimal code" example to the Pod::Simple::XHTML documentation.

Fixed mispelling of the "=encoding" markup in the parser (it was spelted "=encode"). Thanks to "TTY" for the patch. (RT #24820).

2010-11-11   David E. Wheeler <david@justatheory.org>
* Release 3.15

Removed "perlpod.pod" and "perlpodspec.pod". These now just live in the Perl core.

Fixed stylesheet names output by HTMLBatch to match the names of the actual stylesheet files (broken in 3.09). Thanks to Kevin Ryde for the report (RT #56725).

Added missing closing slash to the CSS links in the XHTML output. Thanks to HarleyPig for the patch!

Added parens around bar "qw(...)" in t/xhtml05.t. Thanks to Jerry D. Hedden for the patch.

Improved the Pod::Simple::HTML docs. Thanks to Gabor Szabo for the patch.

Pod::Simple::XHTML now properly encodes entities in URLs in the anchor tag. Thanks to John McNamara for the report (RT-60249).

Pod::Simple::HTML and XHTML now strip whitespace from the end of section names that appear as anchor names for headers (in HTML) and IDs (in XHTML). Such whitespace appeared when "X<>" entities were stripped out but not the space between them (RT-56572).

Make test "t/search50.t" always pass on case-insensitive file systems rather than just skip VMS.

2009-04-27
* Release 3.14

Removed explicit loading of UNIVERSAL. RJBS.

Reversed the change applied in release 3.09 to fix RT #12239. POD tag found inside a complex POD tag (e.g., "C<<< I<foo> >>>") is again parsed as a tag embedded in a tag instead of text and entities. The previous interpretation of 'perldoc perlpod' was mistaken. (RT #55602 from Christopher J. Madsen).

2009-12-17   David E. Wheeler <david@justatheory.org>
* Release 3.13

Removed deleted test file from MANIFEST.

2009-12-17   David E. Wheeler <david@justatheory.org>
* Release 3.12

Removed "All rights reserved" from all files.

Added acknowledgements to man.he.net and search.cpan.org for permission to link man pages and Perl module links to their sites in the output of Pod::Simple::HTML and Pod::Simple::XHTML.

Add "html_h_level" option to Pod::Simple::XHTML and ::HTML to allow a =head1 to become an <h2> and so on. RJBS.

Add batch_mode_page_object_init() method to Pod::Simple::XHTML. This allows it to be used by Pod::Simple::HTMLBatch.

Fixed a regression in Pod::Simple::XHTML where `=begin html` blocks were incorrectly escaped rather than simply passed through unmolested. RJBS.

Removed the undocumented "fullstop_space_harden" attribute, which apparently was only used by Pod::Text a very long time ago.

2009-12-09   David E. Wheeler <david@justatheory.org>
* Release 3.11

Restored code to HTMLBatch that allows the TOC (index) to be created in batch jobs (RT #52324 from Martin J. Evans).

Added resources to META.yml, including bug tracker, license, and repository.

Turned man page links into links to man.he.net in Pod::Simple::HTML and Pod::Simple::XHTML output. Subclass and override resolve_man_page_link() to use a different URL.

Added the resolve_pod_page.link() and resolve_man_page_link() methods to Pod::Simple::XHTML to make it easier for subclasses to change the URLs created for POD and man page links.

Fixed the output of entities in L<> tags by Pod::Simple::XHTML.

Fixed the output of POD links from Pod::Simple::XHTML so that the section part (/foo) is turned into a proper fragment identifier (#foo) in the resulting search.cpan.org link.
Pod::Simple::Text now outputs URLs for links created in the
L<text|URL> format. For example, L<Perl|http://perl.org> is now
output as "Perl <http://perl.org>" rather than just as "Perl".

Updated perlpod.pod and perlpodspec.pod to sync up with Perl core
(and to be released in Perl 5.12). Changes include:
* Removing the prohibition against L<text|href>
* Deprecation of L<section> and L"section"
* Legalization of "=begin formatname parameter"

A couple of bug fixes in Pod::Simple::HTML from Graham Barr.

Added the do_section() method to Pod::Simple::HTML. Graham Barr.

Word-smithed the "DESCRIPTION" a bit and wrote the README.

Synced up all module version numbers to 3.11 except for
Pod::Simple::HTMLLegacy, which is at 5.01 and should not have its
version number lowered.

2009-11-12   David E. Wheeler <david@justatheory.org>
* Release 3.10

Converted test files that had DOS endings to have Unix endings
(RT #50922 from Steve Hay).

Skip tests on VMS where the lack of filename case preservation can
wreak havoc (RT #51184 from Craig A. Berry).

Fix nested definition list format in the XHTML output
(RT #51187 from Lars D).

Added some files missing from the MANIFEST (and therefore the
distribution) in the last two releases.

2009-10-27   Allison Randal <allison@perl.org>
* Release 3.09

Add support for an index (TOC) in the XHTML output from David E.
Wheeler.

Add strip_verbatim_indent() from David E. Wheeler.

Added the "nocase" option to PullParser's get_title(),
get_version(), get_description(), and get_author() methods. This
allows one to fetch the contents of those sections regardless of
the case of the labels (e.g., "NAME" and "Name" and "name" are all
valid). Graham Barr.

Added the search_class() accessor to Pod::Simple::HTMLBatch.
David E. Wheeler.

XHTML output now properly encodes entities in all places, not just in verbatim blocks and code spans. David E. Wheeler.

Fixed XHTML to output definition lists when it should, rather than (broken) unordered lists. David E. Wheeler.

Fixed XHTML so that multiparagraph list items work correctly.
David E. Wheeler.

Fixed XHTML ordered list output so that it does not include the number specified in the POD in the output. This is on a par with out the HTML output works. David E. Wheeler.

Applied URL patch from Leon Brocard for The Perl Journal archives.

Fixed test failures with older versions of HTML::Entities (RT #43903 from Salvador Tercia).

Changed CSS files generated by HTMLBatch to be no more than 8.3 characters long. (RT #40450 from Renee Baecker)

Added entity handling for E<sol> and E<verbar> to Pod::Simple::XHTML.
(RT #49615 from Chas Owens.)

Fixed a bug in Pod::Simple::HTML where a definition term item with no corresponding definition item would be output with no closing</a></dt>. (RT # 37107 from Kevin Ryde).

Added entity handling for numeric entities to Pod::Simple::XHTML, following perlpod specification.

A POD tag found inside a complex POD tag (e.g., "C<<< C<foo> >>>") is now properly parsed as text and entities instead of a tag embedded in a tag. This is in compliance with `perldoc perlpod` (RT #12239 from Michael Schwern).

Thanks to David E. Wheeler for applying patches, resolving bugs, and generally getting ready for the release.

2009-07-16   Allison Randal <allison@perl.org>
* Release 3.08

Fix installdirs for Perl versions where Pod::Simple was core;
RT#36446 & RT#39709, thanks to Jerry Hedden.

Fix encoding handling for code in paragraphs; RT#45829, thanks to David Wheeler.

2008-06-04 Allison Randal <allison@perl.org>
* Release 3.07

Fix module dependencies, make HTML::Entities optional and require Test::More.

2008-06-03 Allison Randal <allison@perl.org>
* Release 3.06

Fix bugs related to passing $1 to File::Spec, reported by Andrew Hamlin and John McNamara.

Applied a suggested fix from Kevin Ryde to return a successful exit code when Pod::Simple::HTML is run from the command line.

Fix handling of complex L<URL> entries, thanks to tests supplied in RT#4896.

Fix incorrect handling of S<> entries made up of entirely whitespace, thanks to test case from Andreas Koenig.

Launch Pod::Simple::XHTML, an XHTML compliant, more easily extensible HTML formatter.

Add feature to parse additional text after =begin target as a block title, requested by Adam Kennedy.

Thanks to Hans Dieter Pearcey for applying patches, resolving bugs, and generally getting ready for the release.

2007-03-03 Allison Randal <allison@perl.org>
* Release 3.05

Standardized all test files on 8.3 naming scheme for Perl core.

Applied test patches from Jerry Hedden for Perl core when Encode not installed.

Applied test patch from Ken Williams for 5.005_04 compatibility.

Applied a patch from Christopher Madsen to fix architecture directory searches on Gentoo.

Fixed a failing search test on Debian-based distributions caused
by Debian stripping Pod documentation out of core modules.
(Three cheers to the CPAN testers and James Ponza for sending
enough reports that I could work out the pattern.)

2006-01-18  Allison Randal <allison@perl.org>
* Release 3.04

Applied test patches for Perl core integration from Steve Peters.

Added a 'reinit' method to Pod::Simple::BlackBox for Russ Allbery
so Pod::Man can provide backward compatibility to existing users
(such as Module::Build and ExtUtils::MakeMaker).

Applied patch for extracting case-preserved package names on VMS
from Craig Berry.

2005-11-21  Allison Randal <allison@perl.org>
* Release 3.03

Applied whitespace patches for Pod::Man and Pod::Text from
Russ Allbery.

Applied validation patches to Pod::Simple::HTML from Graham Barr.

2004-05-24  Sean M. Burke <sburke@cpan.org>
* Release 3.02

Just fixing some typos in the CSS generated by Pod::Simple::HTMLBatch.

2004-05-24  Sean M. Burke <sburke@cpan.org>
* Release 3.01

No big changes to the main modules, but there's many changes to
the important Pod::Simple::HTML module.

Also, new modules:
  Pod::Simple::HTMLBatch
  Pod::Simple::HTMLLegacy
  Pod::Simple::Progress
  Pod::Simple::Search
and tests for these (well, most).

Some prettying up of the Makefile.PL.

The test 00about.t is a bit more careful and verbose now.

The docs are still incomplete, esp. for Pod::Simple::HTML and
Pod::Simple::HTMLBatch, which I hope to improve quite soon.
2004-05-07  Sean M. Burke <sburke@cpan.org>
* Release 2.06

Allison Randal brilliantly refactors a huge monolithic sub in Blackbox.pm. Code is now actually sanely readable!

I add the new option-attributes fullstop_space_harden and codes_in_verbatim, and the two methods abandon_output_string and abandon_output_fh. Not yet documented.

New test fullstop_spaces.t and new corpus document greek_iso_8859_7.pod.

Another version should be forthcoming in a few days that has the new Pod::Simple::HTML stuff in it.

Note to self: document =extend and =encoding in perlpodspec ASAP!

2003-11-04  Sean M. Burke <sburke@cpan.org>
* Release 2.05 -- bugfix version

In an attempt to stop Perl 5.6 versions from going completely crazy, I’ve tried to basically turn off all Unicode/utf8 support under 5.6. Under 5.8 and above, Unicode should work fine, and under 5.6, all Unicode characters should be replaced with a little “can’t render” symbol, either a ”” or a ”?”.

Many many thanks to Jarkko Hietaniemi for helping out.

(Works under 5.005 now too?)

2003-10-10  Sean M. Burke <sburke@cpan.org>
* Release 2.04 -- minor bugfix version

* Added some code to insulate Pod::Simple to runtime changes in the value of $/. Thanks to Iain Truskett for catching this.
* Added FILENO method to TiedOutFH.pm, to work quietly under some perls. Thanks to Jochen Stenzel for catching this.
* Fixed some tests that erroneously failed under some 5.6’s because of chdir()s in *.t files messing up @INC Thanks to many who caught this, including Rocco Caputo.

2003-09-07  Sean M. Burke <sburke@cpan.org>
* Release 2.03 -- minor upgrade
* A =head[1234] command now closes any currently open =over, and
warns.
* Fixing a few obscure bugs, including one to do with the
  Makefile.
* Added some tests for those bugs.

2003-09-02 Sean M. Burke <sburke@cpan.org>
* Release 2.02 -- fixing a testing bug
* Autrijus Tang found a silly bug of mine in corpustest.t's
testing of corpus/t/nonesuch.txt. Fixed,
* I add encoding_nonesuch.t to test corpus/t/nonesuch.txt better.

2003-09-01 Sean M. Burke <sburke@cpan.org>
* Release 2.01
* Moved all version numbers up to 2.01 for reasons of Tibetan
  numerology.

* Implemented =encoding. Thanks a million to Jarkko, Autrijus,
  Dan Kogai, and many others for their help, patience, and
  encouragement.

It's not yet documented, but see ./t/corpus/*.txt for examples at
least.

* Added 'use utf8' to all the modules. Byebye perl-5.005
  compatibility, hello decent perl-5.6 compatibility.

2003-09-01 Sean M. Burke <sburke@cpan.org>
* Release 0.98
* At Michael Schwern's suggestion, a list that begins with a
  "=item [number]" line where number isn't a 1, is no longer
  treated as an error, but instead is silently coerced into being a
  text-item list, just as if it were "=item wubble" or whatever.

2003-08-12 Sean M. Burke <sburke@cpan.org>
* Release 0.97
* Looking goooooood. Not smelling so much like beta anymore!
* I think this might be the last version before I go
  putting "use utf8" all over the place.

* Added placefolders for "=encoding" support. If you use
  "=encoding", you'll get an error about "not yet implemented"
  instead of "unknown directive".

* Rewrote Pod::Simple::Pullparser's get_title, and added
  get_version, get_author, and get_description. Documented them.
Thanks to Graham Barr for contributing an initial get_title and then being patient while I seemed to do nothing with it for months on end!

* More tests.

Otherwise just minor changes since last version:
* Fixed error in Pod::Simple::RTF.
* Added new but undocumented methods to Pod::Simple:
  unaccept_directive(s) unaccept_target(s) unaccept_code(s)
* Corrected ‘=back without =open’ error to ‘=back without =over’
* A little tweaking to the _verbatim_format code.
* Dump routines may use \x{NN} instead of \xNN format.
* Pod::Simple::HTML now uses VerbatimFormatted
* A few changes to DEBUG messages -- nothing you'd normally see.

2002-11-19  Sean M. Burke <sburke@cpan.org>
* Release 0.96
* Still kinda sorta beta.

* Much much more docs in this version. Only a few feature changes:

  * Added any_errata_seen to Pod::Simple. Should've been in there ages ago.  Oops!
  * Fixed some errors in the experimental VerbatimFormatted code.
  * Added is_tagname / is_tag to Pod::Simple::PullParserStartToken and Pod::Simple::PullParserEndToken
  * Added RTFDEFLANG stuff to Pod::Simple::RTF.

2002-11-10  Sean M. Burke <sburke@cpan.org>
* Release 0.95
* Beta release. Much documentation still to write, many features still to add. The APIs might change in future versions.

* Now including perlpod and perlpodspec in the dist.

  * Pod::Simple -- added parse_from_file
  * Pod::Simple::RTF -- minor style changes, and minor change to the RTF-wrapping logic.
  * Pod::Simple::BlackBox -- a =cut opening a block is no longer a fatal(ish) error.
  * Pod::Simple::BlackBox -- added experimental new VerbatimFormatted stuff.

2002-10-16  Sean M. Burke <sburke@cpan.org>
* Release 0.94
* Beta release. Much documentation still to write, many features still to add. The APIs might change in future versions.

* Pod::Simple::RTF -- minor style tweaks
* Pod::Simple::PullParserEndToken and ::PullParserStartToken -- added ->tag as an alias for ->tagname.
* Pod::Simple and Pod::Simple::BlackBox -- added tolerance for "=item * Foo" as a variant syntax for "=item *

Foo". Tests added/changed accordingly.
* Pod::Simple::HTML -- added <a name="..."> stuff, and a hack at doing something with X<...>'s.

2002-09-29 Sean M. Burke <sburke@cpan.org>
* Release 0.93
* Beta release. Much documentation still to write, many features still to add. The APIs might change in future versions.

   * Pod::Simple -- added errors_seen attribute
* Pod::Simple::HTML -- added support for =for HTML ... directives, and =extend directives.
* Oh, and I added Pod::Simple::RTF in 0.92 but forgot to note it until now.

2002-09-29 Sean M. Burke <sburke@cpan.org>
* Release 0.92
* Beta release. Much documentation still to write, many features still to add. The APIs might change in future versions.

* Fixing bungled distribution.

2002-09-29 Sean M. Burke <sburke@cpan.org>
* Release 0.91
* Beta release. Much documentation still to write, many features still to add. The APIs might change in future versions.

* Pod::Simple::PullParserTextToken -- added 'text_r'

* Pod::Simple::PullParser -- added 'get_title' and 'get_title_short' to

* Pod::Simple -- corrected wording of "Format for second =extend parameter" error message.

* Pod::PullParser -- made its filter() run as intended, like Pod::Simple's filter.

* Pod::Subclassing -- more docs
RELEASE 0.90
Beta release. Much documentation still to write, many features
still to add. The APIs might change in future versions.

Found in path(s):
* /opt/cola/permits/1006412822_1635364626.07/0/perl-Pod-Simple-3.28-4.amzn2.src.rpm-cosi-expand-archive-
elJuegKu/Pod-Simple-3.28.tar.gz-cosi-expand-archive-NgLEueVa/Pod-Simple-3.28/ChangeLog
No license file was found, but licenses were detected in source scan.

=head1 NAME

perlfaq3 - Programming Tools ($Revision: 1.38 $, $Date: 1999/05/23 16:08:30 $)

=head1 DESCRIPTION

This section of the FAQ answers questions related to programmer tools
and programming support.

=head2 How do I do (anything)?

Have you looked at CPAN (see L<perlfaq2>)? The chances are that
someone has already written a module that can solve your problem.
Have you read the appropriate man pages? Here's a brief index:

Basics perldata, perlvar, perlsyn, perlop, perls
Executionperlrerrun, perldebug
Functionsperlfunc
Objectsperlref, perlmod, perlobj, perltil
data Structuresperlref, perlrol, perldsc
Modulesperlmod, perlmodlib, perls
Regexesperlre, perlfunc, perlop, perllocale
Moving to perl5perltrap, perl
Linking w/Cperlxsut, perlxs, perlcall, perlgs, perlembed
(not a man-page but still useful)

A crude table of contents for the Perl man page set is found in L<perltoe>.

=head2 How can I use Perl interactively?

The typical approach uses the Perl debugger, described in the
perldebug(1) man page, on an "empty" program, like this:

perl -de 42

Now just type in any legal Perl code, and it will be immediately
evaluated. You can also examine the symbol table, get stack
backtraces, check variable values, set breakpoints, and other
operations typically found in symbolic debuggers.

=head2 Is there a Perl shell?

In general, no. The Shell.pm module (distributed with Perl) makes
Perl try commands which aren't part of the Perl language as shell
commands. perlsh from the source distribution is simplistic and
uninteresting, but may still be what you want.

=head2 How do I debug my Perl programs?

Have you tried C<use warnings> or used C<-w>? They enable warnings
to detect dubious practices.

Have you tried C<use strict>? It prevents you from using symbolic
references, makes you predeclare any subroutines that you call as bare
words, and (probably most importantly) forces you to predeclare your
variables with C<my>, C<our>, or C<use vars>.

Did you check the return values of each and every system call? The operating
system (and thus Perl) tells you whether they worked, and if not
why.

    open(FH, "> /etc/cantwrite")
    or die "Couldn't write to /etc/cantwrite: $!
"

Did you read L<perltrap>? It's full of gotchas for old and new Perl
programmers and even has sections for those of you who are upgrading
from languages like I<awk> and I<C>.

Have you tried the Perl debugger, described in L<perldebug>? You can
step through your program and see what it's doing and thus work out
why what it's doing isn't what it should be doing.

=head2 How do I profile my Perl programs?

You should get the Devel::DProf module from the standard distribution
(or separately on CPAN) and also use Benchmark.pm from the standard
distribution. The Benchmark module lets you time specific portions of
your code, while Devel::DProf gives detailed breakdowns of where your
code spends its time.

Here's a sample use of Benchmark:

    use Benchmark;
@junk = `cat /etc/motd`;
$count = 10_000;

timethese($count, {
   'map' => sub { my @a = @junk;
       map { s/a/b/ } @a;
       return @a
   },
   'for' => sub { my @a = @junk;
       local $_;
       for (@a) { s/a/b/ ;
       return @a ,}
   });

This is what it prints (on one machine--your results will be dependent on your hardware, operating system, and the load on your machine):

Benchmark: timing 10000 iterations of for, map...
   for:  4 secs ( 3.97 usr  0.01 sys =  3.98 cpu)
   map:  6 secs ( 4.97 usr  0.00 sys =  4.97 cpu)

Be aware that a good benchmark is very hard to write. It only tests the data you give it and proves little about the differing complexities of contrasting algorithms.

=head2 How do I cross-reference my Perl programs?

The B::Xref module, shipped with the new, alpha-release Perl compiler (not the general distribution prior to the 5.005 release), can be used to generate cross-reference reports for Perl programs.

perl -MO=Xref[,OPTIONS] scriptname.plx

=head2 Is there a pretty-printer (formatter) for Perl?

There is no program that will reformat Perl as much as indent(1) does for C. The complex feedback between the scanner and the parser (this feedback is what confuses the vgrind and emacs programs) makes it challenging at best to write a stand-alone Perl parser.

Of course, if you simply follow the guidelines in L<perlstyle>, you shouldn't need to reformat. The habit of formatting your code as you write it will help prevent bugs. Your editor can and should help you with this. The perl-mode or newer cperl-mode for emacs can provide remarkable amounts of help with most (but not all) code, and even less programmable editors can provide significant assistance. Tom swears by the following settings in vi and its clones:
Now put that in your `.exrc` file (replacing the caret characters with control characters) and away you go. In insert mode, ^T is for indenting, ^D is for undenting, and ^O is for blockdenting— as it were. If you haven't used the last one, you're missing a lot. A more complete example, with comments, can be found at http://www.perl.com/CPAN-local/authors/id/TOMC/scripts/toms.exrc.gz

If you are used to using the `vgrind` program for printing out nice code to a laser printer, you can take a stab at this using http://www.perl.com/CPAN/doc/misc/tips/working.vgrind.entry, but the results are not particularly satisfying for sophisticated code.

The a2ps at http://www.infres.enst.fr/%7Edemaille/a2ps/ does lots of things related to generating nicely printed output of documents.

=head2 Is there a ctags for Perl?

There's a simple one at http://www.perl.com/CPAN/authors/id/TOMC/scripts/ptags.gz which may do the trick. And if not, it's easy to hack into what you want.

=head2 Is there an IDE or Windows Perl Editor?

Perl programs are just plain text, so any editor will do.

If you're on Unix, you already have an IDE—Unix itself. The UNIX philosophy is the philosophy of several small tools that each do one thing and do it well. It's like a carpenter's toolbox.

If you want a Windows IDE, check the following:

=over 4

=item CodeMagicCD

http://www.codemagiccd.com/

=item Komodo

ActiveState's cross-platform, multi-language IDE has Perl support, including a regular expression debugger and remote debugging (http://www.ActiveState.com/Products/Komodo/index.html). (Visual Perl, a Visual Studio.NET plug-in is currently (early 2001) in beta (http://www.ActiveState.com/Products/VisualPerl/index.html)).
The Object System
(http://www.castlelink.co.uk/object_system/) is a Perl web applications development IDE.

PerlBuilder
(http://www.solutionsoft.com/perl.htm) is an integrated development environment for Windows that supports Perl development.

Perl code magic
(http://www.petes-place.com/codemagic.html).

visiPerl+
http://helpconsulting.net/visiperl/, from Help Consulting.

For editors: if you're on Unix you probably have vi or a vi clone already, and possibly an emacs too, so you may not need to download anything. In any emacs the cperl-mode (M-x cperl-mode) gives you perhaps the best available Perl editing mode in any editor.

For Windows editors: you can download an Emacs

GNU Emacs
http://www.gnu.org/software/emacs/windows/ntemacs.html

MicroEMACS
http://members.nbci.com/uemacs/

XEmacs
http://www.xemacs.org/Download/index.html

or a vi clone such as

Elvis

=item Vile
http://vile.cx/

=item Vim
http://www.vim.org/

win32: http://www.cs.vu.nl/%7Etmgil/vi.html

=back

For vi lovers in general, Windows or elsewhere:

nv (http://www.bostic.com/vi/, available from CPAN in src/misc/) is yet another vi clone, unfortunately not available for Windows, but in UNIX platforms you might be interested in trying it out, firstly because strictly speaking it is not a vi clone, it is the real vi, or the new incarnation of it, and secondly because you can embed Perl inside it to use Perl as the scripting language. nv is not alone in this, though: at least also vim and vile offer an embedded Perl.

The following are Win32 multilanguage editor/IDESs that support Perl:

=over 4

=item Codewright
http://www.starbase.com/

=item MultiEdit

=item SlickEdit
http://www.slickedit.com/

=back

There is also a toyedit Text widget based editor written in Perl that is distributed with the Tk module on CPAN. The ptkdb (http://world.std.com/~aep/ptkdb/) is a Perl/tk based debugger that acts as a development environment of sorts. Perl Composer
(http://perlcomposer.sourceforge.net/vperl.html) is an IDE for Perl/Tk GUI creation.

In addition to an editor/IDE you might be interested in a more powerful shell environment for Win32. Your options include

=over 4

=item Bash

from the Cygwin package (http://sources.redhat.com/cygwin/)

=item Ksh

from the MKS Toolkit (http://www.mks.com/), or the Bourne shell of the U/WIN environment (http://www.research.att.com/sw/tools/uwin/)

=item Tcsh


=item Zsh

ftp://ftp.blarg.net/users/amol/zsh/, see also http://www.zsh.org/

=back

MKS and U/WIN are commercial (U/WIN is free for educational and research purposes), Cygwin is covered by the GNU Public License (but that shouldn't matter for Perl use). The Cygwin, MKS, and U/WIN all contain (in addition to the shells) a comprehensive set of standard UNIX toolkit utilities.

If you're transferring text files between Unix and Windows using FTP be sure to transfer them in ASCII mode so the ends of lines are appropriately converted.

On Mac OS the MacPerl Application comes with a simple 32k text editor that behaves like a rudimentary IDE. In contrast to the MacPerl Application the MPW Perl tool can make use of the MPW Shell itself as an editor (with no 32k limit).

=over 4

=item BBEdit and BBEdit Lite

are text editors for Mac OS that have a Perl sensitivity mode
=item Alpha

is an editor, written and extensible in Tcl, that nonetheless has
built in support for several popular markup and programming languages
including Perl and HTML (http://alpha.olm.net/).

=back

Pepper and Pe are programming language sensitive text editors for Mac
OS X and BeOS respectively (http://www.hekkelman.com/).

=head2 Where can I get Perl macros for vi?

For a complete version of Tom Christiansen's vi configuration file,
see http://www.perl.com/CPAN/authors/Tom_Christiansen/scripts/toms.exrc.gz,
the standard benchmark file for vi emulators. The file runs best with nvi,
the current version of vi out of Berkeley, which incidentally can be built
with an embedded Perl interpreter--see http://www.perl.com/CPAN/src/misc.

=head2 Where can I get perl-mode for emacs?

Since Emacs version 19 patchlevel 22 or so, there have been both a
perl-mode.el and support for the Perl debugger built in. These should
come with the standard Emacs 19 distribution.

In the Perl source directory, you'll find a directory called "emacs",
which contains a cperl-mode that color-codes keywords, provides
context-sensitive help, and other nifty things.

Note that the perl-mode of emacs will have fits with C"main'foo">
(single quote), and mess up the indentation and highlighting. You
are probably using C"main::foo" in new Perl code anyway, so this
shouldn't be an issue.

=head2 How can I use curses with Perl?

The Curses module from CPAN provides a dynamically loadable object
module interface to a curses library. A small demo can be found at the
directory http://www.perl.com/CPAN/authors/Tom_Christiansen/scripts/rep;
this program repeats a command and updates the screen as needed, rendering
B<rep ps axu> similar to B<top>.

=head2 How can I use X or Tk with Perl?

Tk is a completely Perl-based, object-oriented interface to the Tk toolkit
that doesn't force you to use Tcl just to get at Tk. Sx is an interface

=head2 How can I generate simple menus without using CGI or Tk?

The http://www.perl.com/CPAN/authors/id/SKUNZ/perlmenu.v4.0.tar.gz module, which is curses-based, can help with this.

=head2 What is undump?

See the next question on `How can I make my Perl program run faster?'

=head2 How can I make my Perl program run faster?

The best way to do this is to come up with a better algorithm. This can often make a dramatic difference. Jon Bentley's book "Programming Pearls" (that's not a misspelling!) has some good tips on optimization, too. Advice on benchmarking boils down to: benchmark and profile to make sure you're optimizing the right part, look for better algorithms instead of microtuning your code, and when all else fails consider just buying faster hardware.

A different approach is to autoload seldom-used Perl code. See the AutoSplit and AutoLoader modules in the standard distribution for that. Or you could locate the bottleneck and think about writing just that part in C, the way we used to take bottlenecks in C code and write them in assembler. Similar to rewriting in C, modules that have critical sections can be written in C (for instance, the PDL module from CPAN).

In some cases, it may be worth it to use the backend compiler to produce byte code (saving compilation time) or compile into C, which will certainly save compilation time and sometimes a small amount (but not much) execution time. See the question about compiling your Perl programs for more on the compiler--the wins aren't as obvious as you'd hope.

If you're currently linking your perl executable to a shared I<libc.so>, you can often gain a 10-25% performance benefit by rebuilding it to link with a static libc.a instead. This will make a bigger perl executable, but your Perl programs (and programmers) may thank you for
Unsubstantiated reports allege that Perl interpreters that use sfio outperform those that don't (for I/O intensive applications). To try this, see the F<INSTALL> file in the source distribution, especially the "Selecting File I/O mechanisms" section.

The undump program was an old attempt to speed up your Perl program by storing the already-compiled form to disk. This is no longer a viable option, as it only worked on a few architectures, and wasn't a good solution anyway.

=head2 How can I make my Perl program take less memory?

When it comes to time-space tradeoffs, Perl nearly always prefers to throw memory at a problem. Scalars in Perl use more memory than strings in C, arrays take more than that, and hashes use even more. While there's still a lot to be done, recent releases have been addressing these issues. For example, as of 5.004, duplicate hash keys are shared amongst all hashes using them, so require no reallocation.

In some cases, using substr() or vec() to simulate arrays can be highly beneficial. For example, an array of a thousand booleans will take at least 20,000 bytes of space, but it can be turned into one 125-byte bit vector—a considerable memory savings. The standard Tie::SubstrHash module can also help for certain types of data structure. If you're working with specialist data structures (matrices, for instance) modules that implement these in C may use less memory than equivalent Perl modules.

Another thing to try is learning whether your Perl was compiled with the system malloc or with Perl's builtin malloc. Whichever one it is, try using the other one and see whether this makes a difference. Information about malloc is in the F<INSTALL> file in the source distribution. You can find out whether you are using perl's malloc by typing C<perl -V:usemymalloc>.

=head2 Is it unsafe to return a pointer to local data?

No, Perl's garbage collection system takes care of this.

    sub makeone {
        my @a = ( 1 .. 10 );
        return \@a;
    }

    for $i ( 1 .. 10 ) {

push @many, makeone();
}

print $many[4][5], "\n";

print "@many\n";

=head2 How can I free an array or hash so my program shrinks?

You can't. On most operating systems, memory allocated to a program can never be returned to the system. That's why long-running programs sometimes re-exec themselves. Some operating systems (notably, FreeBSD and Linux) allegedly reclaim large chunks of memory that is no longer used, but it doesn't appear to happen with Perl (yet). The Mac appears to be the only platform that will reliably (albeit, slowly) return memory to the OS.

We've had reports that on Linux (Redhat 5.1) on Intel, C<undef $scalar> will return memory to the system, while on Solaris 2.6 it won't. In general, try it yourself and see.

However, judicious use of my() on your variables will help make sure that they go out of scope so that Perl can free up that space for use in other parts of your program. A global variable, of course, never goes out of scope, so you can't get its space automatically reclaimed, although undef/jing and/or delete/jing it will achieve the same effect. In general, memory allocation and de-allocation isn't something you can or should be worrying about much in Perl, but even this capability (preallocation of data types) is in the works.

=head2 How can I make my CGI script more efficient?

Beyond the normal measures described to make general Perl programs faster or smaller, a CGI program has additional issues. It may be run several times per second. Given that each time it runs it will need to be re-compiled and will often allocate a megabyte or more of system memory, this can be a killer. Compiling into C B<isn't going to help you> because the process start-up overhead is where the bottleneck is.

There are two popular ways to avoid this overhead. One solution involves running the Apache HTTP server (available from http://www.apache.org/) with either of the mod_perl or mod_fastcgi plugin modules.

With mod_perl and the Apache::Registry module (distributed with mod_perl), httpd will run with an embedded Perl interpreter which pre-compiles your script and then executes it within the same address space without forking. The Apache extension also gives Perl access to
the internal server API, so modules written in Perl can do just about anything a module written in C can. For more on mod_perl, see http://perl.apache.org/

With the FCGI module (from CPAN) and the mod_fastcgi module (available from http://www.fastcgi.com/) each of your Perl programs becomes a permanent CGI daemon process.

Both of these solutions can have far-reaching effects on your system and on the way you write your CGI programs, so investigate them with care.


A non-free, commercial product, "The Velocity Engine for Perl", (http://www.binevolve.com/ or http://www.binevolve.com/velocigen/ ) might also be worth looking at. It will allow you to increase the performance of your Perl programs, running programs up to 25 times faster than normal CGI Perl when running in persistent Perl mode or 4 to 5 times faster without any modification to your existing CGI programs. Fully functional evaluation copies are available from the web site.

=head2 How can I hide the source for my Perl program?

Delete it. :-) Seriously, there are a number of (mostly unsatisfactory) solutions with varying levels of "security".

First of all, however, you I<can't> take away read permission, because the source code has to be readable in order to be compiled and interpreted. (That doesn't mean that a CGI script's source is readable by people on the web, though--only by people with access to the filesystem.) So you have to leave the permissions at the socially friendly 0755 level.

Some people regard this as a security problem. If your program does insecure things and relies on people not knowing how to exploit those insecurities, it is not secure. It is often possible for someone to determine the insecure things and exploit them without viewing the source. Security through obscurity, the name for hiding your bugs instead of fixing them, is little security indeed.

You can try using encryption via source filters (Filter::* from CPAN), but any decent programmer will be able to decrypt it. You can try using the byte code compiler and interpreter described below, but the curious might still be able to de-compile it. You can try using the native-code compiler described below, but crackers might be able to disassemble it. These pose varying degrees of difficulty to people wanting to get at
your code, but none can definitively conceal it (true of every language, not just Perl).

If you're concerned about people profiting from your code, then the bottom line is that nothing but a restrictive license will give you legal security. License your software and pepper it with threatening statements like "This is unpublished proprietary software of XYZ Corp. Your access to it does not give you permission to use it blah blah blah." We are not lawyers, of course, so you should see a lawyer if you want to be sure your license's wording will stand up in court.

=head2 How can I compile my Perl program into byte code or C?

Malcolm Beattie has written a multifunction backend compiler, available from CPAN, that can do both these things. It is included in the perl5.005 release, but is still considered experimental. This means it's fun to play with if you're a programmer but not really for people looking for turn-key solutions.

Merely compiling into C does not in and of itself guarantee that your code will run very much faster. That's because except for lucky cases where a lot of native type inferencing is possible, the normal Perl run-time system is still present and so your program will take just as long to run and be just as big. Most programs save little more than compilation time, leaving execution no more than 10-30% faster. A few rare programs actually benefit significantly (even running several times faster), but this takes some tweaking of your code.

You'll probably be astonished to learn that the current version of the compiler generates a compiled form of your script whose executable is just as big as the original perl executable, and then some. That's because as currently written, all programs are prepared for a full eval() statement. You can tremendously reduce this cost by building a shared libperl.so library and linking against that. See the F<INSTALL> podfile in the Perl source distribution for details. If you link your main perl binary with this, it will make it minuscule. For example, on one author's system, F</usr/bin/perl> is only 11k in size!

In general, the compiler will do nothing to make a Perl program smaller, faster, more portable, or more secure. In fact, it can make your situation worse. The executable will be bigger, your VM system may take longer to load the whole thing, the binary is fragile and hard to fix, and compilation never stopped software piracy in the form of crackers, viruses, or bootleggers. The real advantage of the compiler is merely packaging, and once you see the size of what it makes (well, unless you use a shared libperl.so), you'll probably want a complete Perl install anyway.
=head2 How can I compile Perl into Java?

You can also integrate Java and Perl with the Perl Resource Kit from O'Reilly and Associates. See http://www.oreilly.com/catalog/prkunix/.

Perl 5.6 comes with Java Perl Lingo, or JPL. JPL, still in development, allows Perl code to be called from Java. See jpl/README in the Perl source tree.

=head2 How can I get C<!--[perl]> to work on [MS-DOS,NT,...]?

For OS/2 just use

    extproc perl -S -your_switches

as the first line in C<*.cmd> file (C<-S> due to a bug in cmd.exe's `extproc' handling). For DOS one should first invent a corresponding batch file and codify it in C<ALTERNATIVE_SHEBANG> (see the F<INSTALL> file in the source distribution for more information).

The Win95/NT installation, when using the ActiveState port of Perl, will modify the Registry to associate the C<.pl> extension with the perl interpreter. If you install another port, perhaps even building your own Win95/NT Perl from the standard sources by using a Windows port of gcc (e.g., with cygwin or mingw32), then you'll have to modify the Registry yourself. In addition to associating C<.pl> with the interpreter, NT people can use: C<SET PATHEXT=%PATHEXT%;.PL> to let them run the program C<install-linux.pl> merely by typing C<install-linux>.

Macintosh Perl programs will have the appropriate Creator and Type, so that double-clicking them will invoke the Perl application.

I<IMPORTANT!>: Whatever you do, PLEASE don't get frustrated, and just throw the perl interpreter into your cgi-bin directory, in order to get your programs working for a web server. This is an EXTREMELY big security risk. Take the time to figure out how to do it correctly.

=head2 Can I write useful Perl programs on the command line?

Yes. Read L<perlrun> for more information. Some examples follow.
(These assume standard Unix shell quoting rules.)

    # sum first and last fields
    perl -lane 'print $F[0] + $F[-1]' *

    # identify text files
perl -le 'for(@ARGV) {print if -f && -T _}' *

# remove (most) comments from C program
perl -0777 -pe 's/{\*.*?\*/}{}gs' foo.c

# make file a month younger than today, defeating reaper daemons
perl -e '$X=24*60*60; utime(time(),time() + 30 * $X, @ARGV)' *

# find first unused uid
perl -le '$i++ while getpwuid($i); print $i'

# display reasonable manpath
echo $PATH | perl -nl -072 -e 's![^/\+]*$!man!&&-d&&!$s{$_}++&&push@m,$_;END{print"@m"}''

OK, the last one was actually an Obfuscated Perl Contest entry. :-)

=head2 Why don't Perl one-liners work on my DOS/Mac/VMS system?

The problem is usually that the command interpreters on those systems
have rather different ideas about quoting than the Unix shells under
which the one-liners were created. On some systems, you may have to
change single-quotes to double ones, which you must I<NOT> do on Unix
or Plan9 systems. You might also have to change a single % to a %%.

For example:

# Unix
perl -e 'print "Hello world\n"

# DOS, etc.
perl -e "print \"Hello world\n\"

# Mac
print "Hello world\n"
(then Run "Myscript" or Shift-Command-R)

# VMS
perl -e "print ""Hello world\n"

The problem is that none of these examples are reliable: they depend on the
command interpreter. Under Unix, the first two often work. Under DOS,
it's entirely possible that neither works. If 4DOS was the command shell,
you'd probably have better luck like this:

perl -e "print <Ctrl-x>"Hello world\n<Ctrl-x>"

Under the Mac, it depends which environment you are using. The MacPerl
shell, or MPW, is much like Unix shells in its support for several quoting variants, except that it makes free use of the Mac’s non-ASCII characters as control characters.

Using qq(), q(), and qx(), instead of "double quotes", 'single quotes', and `backticks`, may make one-liners easier to write.

There is no general solution to all of this. It is a mess, pure and simple. Sucks to be away from Unix, huh? :-)

[Some of this answer was contributed by Kenneth Albanowski.]

=head2 Where can I learn about CGI or Web programming in Perl?

For modules, get the CGI or LWP modules from CPAN. For textbooks, see the two especially dedicated to web stuff in the question on books. For problems and questions related to the web, like "Why do I get 500 Errors" or "Why doesn't it run from the browser right when it runs fine on the command line", see these sources:

WWW Security FAQ
   http://www.w3.org/Security/Faq/

Web FAQ
   http://www.boutell.com/faq/

CGI FAQ
   http://www.webthing.com/tutorials/cgifaq.html

HTTP Spec
   http://www.w3.org/pub/WWW/Protocols/HTTP/

HTML Spec
   http://www.w3.org/TR/REC-html40/
   http://www.w3.org/pub/WWW/MarkUp/

CGI Spec
   http://www.w3.org/CGI/

CGI Security FAQ
   http://www.go2net.com/people/paulp/cgi-security/safe-cgi.txt

=head2 Where can I learn about object-oriented Perl programming?

A good place to start is L<perltoot>, and you can use L<perlobj>, L<perlboot>, and L<perlbot> for reference. Perltoot didn't come out until the 5.004 release; you can get a copy (in pod, html, or postscript) from http://www.perl.com/CPAN/doc/FMTEYEWTK/.
Where can I learn about linking C with Perl? [h2xs, xsubpp]

If you want to call C from Perl, start with L<perlxstut>, moving on to L<perlxs>, L<xsubpp>, and L<perlguts>. If you want to call Perl from C, then read L<perlembed>, L<perlcall>, and L<perlguts>. Don't forget that you can learn a lot from looking at how the authors of existing extension modules wrote their code and solved their problems.

I've read perlembed, perlguts, etc., but I can't embed perl in my C program; what am I doing wrong?

Download the ExtUtils::Embed kit from CPAN and run `make test`. If the tests pass, read the pods again and again and again. If they fail, see L<perlbug> and send a bug report with the output of C<make test TEST_VERBOSE=1> along with C<perl -V>.

When I tried to run my script, I got this message. What does it mean?

A complete list of Perl's error messages and warnings with explanatory text can be found in L<perldiag>. You can also use the splain program (distributed with Perl) to explain the error messages:

perl program 2>diag.out
splain [-v] [-p] diag.out

or change your program to explain the messages for you:

use diagnostics;

or

use diagnostics -verbose;

What's MakeMaker?

This module (part of the standard Perl distribution) is designed to write a Makefile for an extension module from a Makefile.PL. For more information, see L<ExtUtils::MakeMaker>.

AUTHOR AND COPYRIGHT

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of Perl or of its documentation (printed or otherwise), this works is covered under Perl's Artistic License. For separate distributions of all or part of this FAQ outside of that, see L<perlfaq>.

Irrespective of its distribution, all code examples here are in the public domain. You are permitted and encouraged to use this code and any derivatives thereof in your own programs for fun or for profit as you see fit. A simple comment in the code giving credit to the FAQ would be courteous but is not required.

Found in path(s):
* /opt/cola/permits/1006412822_1635364626.07/0/perl-Pod-Simple-3.28-4.amzn2.src.rpm-cosi-expand-archive-elJuegKu/Pod-Simple-3.28.tar.gz-cosi-expand-archive-NgLLeVa/Pod-Simple-3.28/t/perlfaq.pod

No license file was found, but licenses were detected in source scan.

=head1 NAME

Pod::Simple::DumpAsText -- dump Pod-parsing events as text

=head1 SYNOPSIS

perl -MPod::Simple::DumpAsText -e \n"exit Pod::Simple::DumpAsText->filter(shift)->any_errata_seen" \nthingy.pod

=head1 DESCRIPTION

This class is for dumping, as text, the events gotten from parsing a Pod document. This class is of interest to people writing Pod formatters based on Pod::Simple. It is useful for seeing exactly what events you get out of some Pod that you feed in.

This is a subclass of L<Pod::Simple> and inherits all its methods.

=head1 SEE ALSO

L<Pod::Simple::DumpAsXML>

L<Pod::Simple>

=head1 SUPPORT

Questions or discussion about POD and Pod::Simple should be sent to the pod-people@perl.org mail list. Send an empty email to pod-people-subscribe@perl.org to subscribe.

This module is managed in an open GitHub repository, L<https://github.com/theory/pod-simple/>. Feel free to fork and contribute, or
to clone L<git://github.com/theory/pod-simple.git> and send patches!

Patches against Pod::Simple are welcome. Please send bug reports to <bug-pod-simple@rt.cpan.org>.

=head1 COPYRIGHT AND DISCLAIMERS

Copyright (c) 2002 Sean M. Burke.

This library is free software; you can redistribute it and/or modify it under the same terms as Perl itself.

This program is distributed in the hope that it will be useful, but without any warranty; without even the implied warranty of merchantability or fitness for a particular purpose.

=head1 AUTHOR

Pod::Simple was created by Sean M. Burke <sburke@cpan.org>. But don't bother him, he's retired.

Pod::Simple is maintained by:

=over

=item * Allison Randal C<allison@perl.org>

=item * Hans Dieter Pearcey C<hdp@cpan.org>

=item * David E. Wheeler C<dwheeler@cpan.org>

=back

=cut

Found in path(s):
* /opt/cola/permits/1006412822_1635364626.07/0/perl-Pod-Simple-3.28-4.amzn2.src.rpm-cosi-expand-archive-ELjueKr/Pod-Simple-3.28.tar.gz-cosi-expand-archive-NgLeueVa/Pod-Simple-3.28/lib/Pod/Simple/DumpAsText.pm

No license file was found, but licenses were detected in source scan.

NAME
perlfqa3 - Programming Tools (Revision: 1.38 $, Date: 1999/05/23 16:08:30 $)

DESCRIPTION
This section of the FAQ answers questions related to programmer tools and programming support. How do I do (anything)? Have you looked at CPAN (see perlfqa2)? The chances are that someone has already written a module that can solve your problem. Have you read the appropriate man pages? Here's a brief index:

perlfaq3 - Programming Tools ($Revision: 1.38 $, $Date: 1999/05/23 16:08:30 $)
Basics
perldata, perlvar, perlsyn, perlop, perlsub
Execution
perlrun, perldebug
Functions
perlfnc
Objects
perlref, perlmod, perlobj, perltie
Data Structures
perlref, perllool, perlsc
Modules
perlmod, perlmodlib, perlsub
Regexes
perlre, perlfnc, perlop, perlocale
Moving to perl5
perltrap, perl
Linking w/C
perlxstut, perlxs, perlcalf, perlguts, perlembed
Various
(not a man-page but still useful)

A crude table of contents for the Perl man page set is found in perltoc.

How can I use Perl interactively?
The typical approach uses the Perl debugger, described in the perldebug(1) man page, on an ``empty'' program, like this:
perl -de 42
Now just type in any legal Perl code, and it will be immediately evaluated. You can also examine the symbol table, get stack backtraces, check variable values, set breakpoints, and other operations typically found in symbolic debuggers.

Is there a Perl shell?
In general, no. The Shell.pm module (distributed with Perl) makes Perl try commands which aren't part of the Perl language as shell commands. perlsh from the source distribution is simplistic and uninteresting, but may still be what you want.

How do I debug my Perl programs?
Have you tried use warnings or used -w? They enable warnings to detect dubious practices.
Have you tried use strict? It prevents you from using symbolic references, makes you predeclare any subroutines that you call as bare words, and (probably most importantly) forces you to predeclare your variables with my, our, or use vars.
Did you check the return values of each and every system call? The operating system (and thus Perl) tells you whether they worked, and if not why.
open(FH, ">/etc/cantwrite")
or die "Couldn't write to /etc/cantwrite: $!\n";

Did you read perltrap? It's full of gotchas for old and new Perl programmers and even has sections for those of you who are upgrading from languages like awk and C.

Have you tried the Perl debugger, described in perlddebug? You can step through your program and see what it's doing and thus work out why what it's doing isn't what it should be doing.

How do I profile my Perl programs?
You should get the Devel::DProf module from the standard distribution (or separately on CPAN) and also use Benchmark.pm from the standard distribution. The Benchmark module lets you time specific portions of your code, while Devel::DProf gives detailed breakdowns of where your code spends its time.

Here's a sample use of Benchmark:
use Benchmark;
@junk = `cat /etc/motd`;
$count = 10_000;
timethese($count, {
  'map' => sub { my @a = @junk;
    map { s/a/b/ } @a;
    return @a
  }
  # more tests for each...
})
This is what it prints (on one machine--your results will be dependent on your hardware, operating system, and the load on your machine):

Benchmark: timing 10000 iterations of for, map...
  for: 4 secs (3.97 usr 0.01 sys = 3.98 cpu)
  map: 6 secs (4.97 usr 0.00 sys = 4.97 cpu)

Be aware that a good benchmark is very hard to write. It only tests the data you give it and proves little about the differing complexities of contrasting algorithms.

How do I cross-reference my Perl programs?

The B:Xref module, shipped with the new, alpha-release Perl compiler (not the general distribution prior to the 5.005 release), can be used to generate cross-reference reports for Perl programs.

perl -MO=Xref[,OPTIONS] scriptname.plx

Is there a pretty-printer (formatter) for Perl?

There is no program that will reformat Perl as much as indent(1) does for C. The complex feedback between the scanner and the parser (this feedback is what confuses the vgrind and emacs programs) makes it challenging at best to write a stand-alone Perl parser.

Of course, if you simply follow the guidelines in perlstyle, you shouldn't need to reformat. The habit of formatting your code as you write it will help prevent bugs. Your editor can and should help you with this. The perl-mode or newer cperl-mode for emacs can provide remarkable amounts of help with most (but not all) code, and even less programmable editors can provide significant assistance. Tom swears by the following settings in vi and its clones:

set ai sw=4
map! ^O {^M} ^[O T

Now put that in your .exrc file (replacing the caret characters with control characters) and away you go. In insert mode, ^T is for indenting, ^D is for undenting, and ^O is for blockdenting-- as it were. If you haven't used the last one, you're missing a lot. A more complete example, with comments, can be found at http://www.perl.com/CPAN-local/authors/id/TOMC/scripts/toms.exrc.gz

If you are used to using the vgrind program for printing out nice code to a laser printer, you can take a stab at this using http://www.perl.com/CPAN/doc/misc/tips/working.vgrind.entry, but the results are not particularly satisfying for sophisticated code.

The a2ps at http://www.infres.enst.fr/%7Edemaille/a2ps/ does lots of things related to generating nicely printed output of documents.

Is there a tags for Perl?

There's a simple one at http://www.perl.com/CPAN/authors/id/TOMC/scripts/ptags.gz which may do the trick. And if not, it's easy to hack into what you want.

Is there an IDE or Windows Perl Editor?

Perl programs are just plain text, so any editor will do.

If you're on Unix, you already have an IDE--Unix itself. The UNIX philosophy is the philosophy of several small tools that each do one thing and do it well. It's like a carpenter's toolbox.

If you want a Windows IDE, check the following:

CodeMagicCD
http://www.codemagiccd.com/

Komodo

ActiveState's cross-platform, multi-language IDE has Perl support, including a regular expression debugger and

The Object System
(http://www.castelink.co.uk/object_system/) is a Perl web applications development IDE.

PerlBuilder
(http://www.solutionsoft.com/perl.htm) is an integrated development environment for Windows that supports Perl development.

Perl code magic
(http://www.petes-place.com/codemagic.html).

visiPerl+
http://helpconsulting.net/visiperl/, from Help Consulting.

For editors: if you're on Unix you probably have vi or a vi clone already, and possibly an emacs too, so you may not need to download anything. In any emacs the cperl-mode (M-x cperl-mode) gives you perhaps the best available Perl editing mode in any editor.

For Windows editors: you can download an Emacs

GNU Emacs
http://www.gnu.org/software/emacs/windows/ntemacs.html

MicroEMACS
http://members.nbci.com/uemacs/

XEmacs
http://www.xemacs.org/Download/index.html

or a vi clone such as

Elvis

Vile
http://vile.cx/

Vim
http://www.vim.org/

win32: http://www.cs.vu.nl/%7Etmgil/vi.html


nvi (http://www.bostic.com/vi/, available from CPAN in src/misc/) is yet another vi clone, unfortunately not available for Windows, but in UNIX platforms you might be interested in trying it out, firstly because strictly speaking it is not a vi clone, it is the real vi, or the new incarnation of it, and secondly because you can embed Perl inside it to use Perl as the scripting language. nvi is not alone in this, though: at least also vim and vile offer an embedded Perl.

The following are Win32 multilanguage editor/IDESs that support Perl:

Codewright
http://www.starbase.com/

MultiEdit

SlickEdit
http://www.slickedit.com/

There is also a toyedit Text widget based editor written in Perl that is distributed with the Tk module on CPAN. The ptkdb (http://world.std.com/~aep/ptkdb/) is a Perl/tk based debugger that acts as a development environment of sorts. Perl Composer (http://perlcomposer.sourceforge.net/vperl.html) is an IDE for Perl/Tk GUI creation.

In addition to an editor/IDE you might be interested in a more powerful shell environment for Win32. Your options include

Bash
from the Cygwin package (http://sources.redhat.com/cygwin/)
Ksh
from the MKS Toolkit (http://www.mks.com/), or the Bourne shell of the U/WIN environment
(http://www.research.att.com/sw/tools/uwin/)
Tcsh
Zsh
ftp://ftp.blarg.net/users/amol/zsh/, see also http://www.zsh.org/
MKS and U/WIN are commercial (U/WIN is free for educational and research purposes), Cygwin is covered by the
GNU Public License (but that shouldn't matter for Perl use). The Cygwin, MKS, and U/WIN all contain (in addition
to the shells) a comprehensive set of standard UNIX toolkit utilities.
If you're transferring text files between Unix and Windows using FTP be sure to transfer them in ASCII mode so the
ends of lines are appropriately converted.
On Mac OS the MacPerl Application comes with a simple 32k text editor that behaves like a rudimentary IDE. In
contrast to the MacPerl Application the MPW Perl tool can make use of the MPW Shell itself as an editor (with no
32k limit).
BBEdit and BBEdit Lite
are text editors for Mac OS that have a Perl sensitivity mode (http://web.barebones.com/).
Alpha
is an editor, written and extensible in Tcl, that nonetheless has built in support for several popular markup and
programming languages including Perl and HTML (http://alpha.olm.net/).
Pepper and Pe are programming language sensitive text editors for Mac OS X and BeOS respectively
(http://www.hekkelman.com/).
Where can I get Perl macros for vi?
For a complete version of Tom Christiansen's vi configuration file, see
http://www.perl.com/CPAN/authors/Tom_Christiansen/scripts/toms.exrc.gz , the standard benchmark file for vi
emulators. The file runs best with nvi, the current version of vi out of Berkeley, which incidentally can be built with
an embedded Perl interpreter--see http://www.perl.com/CPAN/src/misc.
Where can I get perl-mode for emacs?
Since Emacs version 19 patchlevel 22 or so, there have been both a perl-mode.el and support for the Perl debugger
built in. These should come with the standard Emacs 19 distribution.
In the Perl source directory, you'll find a directory called "emacs", which contains a cperl-mode that color-codes
keywords, provides context-sensitive help, and other nifty things.
Note that the perl-mode of emacs will have fits with "main'foo" (single quote), and mess up the indentation and
highlighting. You are probably using "main::foo" in new Perl code anyway, so this shouldn't be an issue.
How can I use curses with Perl?
The Curses module from CPAN provides a dynamically loadable object module interface to a curses library. A
small demo can be found at the directory http://www.perl.com/CPAN/authors/Tom_Christiansen/scripts/rep; this
program repeats a command and updates the screen as needed, rendering rep ps axu similar to top.
How can I use X or Tk with Perl?
Tk is a completely Perl-based, object-oriented interface to the Tk toolkit that doesn't force you to use Tcl just to get
at Tk. Sx is an interface to the Athena Widget set. Both are available from CPAN. See the directory
http://www.perl.com/CPAN/modules/by-category/08_User_Interfaces/
Invaluable for Perl/Tk programming are the Perl/Tk FAQ at http://w4.lns.cornell.edu/%7Evpvhp/ptk/ptkTOC.html ,
the Perl/Tk Reference Guide available at http://www.perl.com/CPAN-local/authors/Stephen_O_Lidie/ , and the
online manpages at http://www-users.cs.umn.edu/%7Eamundson/perl/perlTk/TOC.html .
How can I generate simple menus without using CGI or Tk?
The http://www.perl.com/CPAN/authors/id/SKUNZ/perlmenu.v4.0.tar.gz module, which is curses-based, can help
with this.
What is undump?
See the next question on `How can I make my Perl program run faster?`

How can I make my Perl program run faster?
The best way to do this is to come up with a better algorithm. This can often make a dramatic difference. Jon Bentley's book `Programming Pearls` (that's not a misspelling!) has some good tips on optimization, too. Advice on benchmarking boils down to: benchmark and profile to make sure you're optimizing the right part, look for better algorithms instead of microtuning your code, and when all else fails consider just buying faster hardware.
A different approach is to autoload seldom-used Perl code. See the AutoSplit and AutoLoader modules in the standard distribution for that. Or you could locate the bottleneck and think about writing just that part in C, the way we used to take bottlenecks in C code and write them in assembler. Similar to rewriting in C, modules that have critical sections can be written in C (for instance, the PDL module from CPAN).
In some cases, it may be worth it to use the backend compiler to produce byte code (saving compilation time) or compile into C, which will certainly save compilation time and sometimes a small amount (but not much) execution time. See the question about compiling your Perl programs for more on the compiler--the wins aren't as obvious as you'd hope.
If you're currently linking your perl executable to a shared libc.so, you can often gain a 10-25% performance benefit by rebuilding it to link with a static libc.a instead. This will make a bigger perl executable, but your Perl programs (and programmers) may thank you for it. See the INSTALL file in the source distribution for more information.
Unsubstantiated reports allege that Perl interpreters that use sfio outperform those that don't (for I/O intensive applications). To try this, see the INSTALL file in the source distribution, especially the ```Selecting File I/O mechanisms``` section.
The undump program was an old attempt to speed up your Perl program by storing the already-compiled form to disk. This is no longer a viable option, as it only worked on a few architectures, and wasn't a good solution anyway.

How can I make my Perl program take less memory?
When it comes to time-space tradeoffs, Perl nearly always prefers to throw memory at a problem. Scalars in Perl use more memory than strings in C, arrays take more than that, and hashes use even more. While there's still a lot to be done, recent releases have been addressing these issues. For example, as of 5.004, duplicate hash keys are shared amongst all hashes using them, so require no reallocation.
In some cases, using substr() or vec() to simulate arrays can be highly beneficial. For example, an array of a thousand booleans will take at least 20,000 bytes of space, but it can be turned into one 125-byte bit vector--a considerable memory savings. The standard Tie::SubstrHash module can also help for certain types of data structure. If you're working with specialist data structures (matrices, for instance) modules that implement these in C may use less memory than equivalent Perl modules.
Another thing to try is learning whether your Perl was compiled with the system malloc or with Perl's builtin malloc. Whichever one it is, try using the other one and see whether this makes a difference. Information about malloc is in the INSTALL file in the source distribution. You can find out whether you are using perl's malloc by typing perl -V:useymalloc.
Is it unsafe to return a pointer to local data?
No, Perl's garbage collection system takes care of this.

```perl
sub makeone {
    my @a = ( 1 .. 10 );
    return \@a;
}
for $i ( 1 .. 10 ) {
    push @many, makeone();
}
print $many[4][5], "a";
```
How can I free an array or hash so my program shrinks?

You can't. On most operating systems, memory allocated to a program can never be returned to the system. That's why long-running programs sometimes re-exec themselves. Some operating systems (notably, FreeBSD and Linux) allegedly reclaim large chunks of memory that is no longer used, but it doesn't appear to happen with Perl (yet). The Mac appears to be the only platform that will reliably (albeit, slowly) return memory to the OS.

We've had reports that on Linux (Redhat 5.1) on Intel, undef $scalar will return memory to the system, while on Solaris 2.6 it won't. In general, try it yourself and see.

However, judicious use of my() on your variables will help make sure that they go out of scope so that Perl can free up that space for use in other parts of your program. A global variable, of course, never goes out of scope, so you can't get its space automatically reclaimed, although undef()ing and/or delete()ing it will achieve the same effect. In general, memory allocation and de-allocation isn't something you can or should be worrying about much in Perl, but even this capability (preallocation of data types) is in the works.

How can I make my CGI script more efficient?

Beyond the normal measures described to make general Perl programs faster or smaller, a CGI program has additional issues. It may be run several times per second. Given that each time it runs it will need to be re-compiled and will often allocate a megabyte or more of system memory, this can be a killer. Compiling into C isn't going to help you because the process start-up overhead is where the bottleneck is.

There are two popular ways to avoid this overhead. One solution involves running the Apache HTTP server (available from http://www.apache.org/) with either of the mod_perl or mod_fastcgi plugin modules. With mod_perl and the Apache::Registry module (distributed with mod_perl), httpd will run with an embedded Perl interpreter which pre-compiles your script and then executes it within the same address space without forking. The Apache extension also gives Perl access to the internal server API, so modules written in Perl can do just about anything a module written in C can. For more on mod_perl, see http://perl.apache.org/

With the FCGI module (from CPAN) and the mod_fastcgi module (available from http://www.fastcgi.com/) each of your Perl programs becomes a permanent CGI daemon process.

Both of these solutions can have far-reaching effects on your system and on the way you write your CGI programs, so investigate them with care.

See http://www.perl.com/CPAN/modules/by-category/15_World_Wide_Web_HTML_HTTP_CGI/ . A non-free, commercial product, "The Velocity Engine for Perl", (http://www.binevolve.com/ or http://www.binevolve.com/velocigen/ ) might also be worth looking at. It will allow you to increase the performance of your Perl programs, running programs up to 25 times faster than normal CGI Perl when running in persistent Perl mode or 4 to 5 times faster without any modification to your existing CGI programs. Fully functional evaluation copies are available from the web site.

How can I hide the source for my Perl program?

Delete it. :-) Seriously, there are a number of (mostly unsatisfactory) solutions with varying levels of `security". First of all, however, you can't take away read permission, because the source code has to be readable in order to be compiled and interpreted. (That doesn't mean that a CGI script's source is readable by people on the web, though--only by people with access to the filesystem.) So you have to leave the permissions at the socially friendly 0755 level.

Some people regard this as a security problem. If your program does insecure things and relies on people not knowing how to exploit those insecurities, it is not secure. It is often possible for someone to determine the insecure things and exploit them without viewing the source. Security through obscurity, the name for hiding your bugs instead of fixing them, is little security indeed.

You can try using encryption via source filters (Filter::* from CPAN), but any decent programmer will be able to decrypt it. You can try using the byte code compiler and interpreter described below, but the curious might still be able to de-compile it. You can try using the native-code compiler described below, but crackers might be able to disassemble it. These pose varying degrees of difficulty to people wanting to get at your code, but none can
definitively conceal it (true of every language, not just Perl).
If you're concerned about people profiting from your code, then the bottom line is that nothing but a restrictive
license will give you legal security. License your software and pepper it with threatening statements like "This is
unpublished proprietary software of XYZ Corp. Your access to it does not give you permission to use it blah blah
blah." We are not lawyers, of course, so you should see a lawyer if you want to be sure your license's wording will
stand up in court.

How can I compile my Perl program into byte code or C?
Malcolm Beattie has written a multifunction backend compiler, available from CPAN, that can do both these things.
It is included in the perl5.005 release, but is still considered experimental. This means it's fun to play with if you're a
programmer but not really for people looking for turn-key solutions.
Merely compiling into C does not in and of itself guarantee that your code will run very much faster. That's because
except for lucky cases where a lot of native type inferencing is possible, the normal Perl run-time system is still
present and so your program will take just as long to run and be just as big. Most programs save little more than
compilation time, leaving execution no more than 10-30% faster. A few rare programs actually benefit significantly
(even running several times faster), but this takes some tweaking of your code.
You'll probably be astonished to learn that the current version of the compiler generates a compiled form of your
script whose executable is just as big as the original perl executable, and then some. That's because as currently
written, all programs are prepared for a full eval() statement. You can tremendously reduce this cost by building a
shared libperl.so library and linking against that. See the INSTALL podfile in the Perl source distribution for details.
If you link your main perl binary with this, it will make it minuscule. For example, on one author's system,
/usr/bin/perl is only 11K in size!
In general, the compiler will do nothing to make a Perl program smaller, faster, more portable, or more secure. In
fact, it can make your situation worse. The executable will be bigger, your VM system may take longer to load the
whole thing, the binary is fragile and hard to fix, and compilation never stopped software piracy in the form of
 crackers, viruses, or bootleggers. The real advantage of the compiler is merely packaging, and once you see the size
of what it makes (well, unless you use a shared libperl.so), you'll probably want a complete Perl install anyway.

How can I compile Perl into Java?
You can also integrate Java and Perl with the Perl Resource Kit from O'Reilly and Associates. See
Perl 5.6 comes with Java Perl Lingo, or JPL. JPL, still in development, allows Perl code to be called from Java. See
jpl/README in the Perl source tree.

How can I get #!perl to work on [MS-DOS,NT,...]?
For OS/2 just use
  extproc perl -S -your_switches
as the first line in *.cmd file (-S due to a bug in cmd.exe's `extproc' handling). For DOS one should first invent a
corresponding batch file and codify it in ALTERNATIVE_SHEBANG (see the INSTALL file in the source
distribution for more information).
The Win95/NT installation, when using the ActiveState port of Perl, will modify the Registry to associate the .pl
extension with the perl interpreter. If you install another port, perhaps even building your own Win95/NT Perl from
the standard sources by using a Windows port of gcc (e.g., with cygwin or mingw32), then you'll have to modify the
Registry yourself. In addition to associating .pl with the interpreter, NT people can use: SET
PATHEXT=%PATHEXT%;.PL to let them run the program install-linux.pl merely by typing install-linux.
Macintosh Perl programs will have the appropriate Creator and Type, so that double-clicking them will invoke the
Perl application.
IMPORTANT!: Whatever you do, PLEASE don't get frustrated, and just throw the perl interpreter into your cgi-bin
directory, in order to get your programs working for a web server. This is an EXTREMELY big security risk. Take
the time to figure out how to do it correctly.
Can I write useful Perl programs on the command line?
Yes. Read perlrun for more information. Some examples follow. (These assume standard Unix shell quoting rules.)

```perl
# sum first and last fields
perl -lane 'print $F[0] + $F[-1]' *

# identify text files
perl -le 'for(@ARGV) {print if -f && -T _}' *

# remove (most) comments from C program
perl -0777 -pe 's/{[^/*]*[^/]*/}{}gs' foo.c

# make file a month younger than today, defeating reaper daemons
perl -e 'X=24*60*60; utime(time(),time() + 30 * $X, @ARGV)' *

# find first unused uid
perl -le '$i++ while getpwuid($i); print $i'

# display reasonable manpath
echo $PATH | perl -nl -072 -e '
   s![^/+]$!man!&&-d&&!$s{$_}++&&push@m,$_;END{print@m}''

OK, the last one was actually an Obfuscated Perl Contest entry. :-)
```

Why don't Perl one-liners work on my DOS/Mac/VMS system?
The problem is usually that the command interpreters on those systems have rather different ideas about quoting
than the Unix shells under which the one-liners were created. On some systems, you may have to change single-
quotes to double ones, which you must NOT do on Unix or Plan9 systems. You might also have to change a single
% to a %.

For example:

- Unix
  ```perl
  perl -e 'print "Hello world\n"'
  ```

- DOS, etc.
  ```perl
  perl -e "print \"Hello world\n\""
  ```

- Mac
  ```perl
  print "Hello world\n"
  ```
  (then Run "Myscript" or Shift-Command-R)

- VMS
  ```perl
  perl -e "print "Hello world\n""
  ```

The problem is that none of these examples are reliable: they depend on the command interpreter. Under Unix, the
first two often work. Under DOS, it's entirely possible that neither works. If 4DOS was the command shell, you'd
probably have better luck like this:

```perl
perl -e 'print <Ctrl-x>"Hello world\n"<Ctrl-x>"'
```

Under the Mac, it depends which environment you are using. The MacPerl shell, or MPW, is much like Unix shells
in its support for several quoting variants, except that it makes free use of the Mac's non-ASCII characters as control
characters.

Using qq(), q(), and qx(), instead of "double quotes", 'single quotes', and `backticks`, may make one-liners easier to
write.

There is no general solution to all of this. It is a mess, pure and simple. Sucks to be away from Unix, huh? :-)

[Some of this answer was contributed by Kenneth Albanowski.]

Where can I learn about CGI or Web programming in Perl?

For modules, get the CGI or LWP modules from CPAN. For textbooks, see the two especially dedicated to web stuff
in the question on books. For problems and questions related to the web, like ``Why do I get 500 Errors'' or ``Why
doesn't it run from the browser right when it runs fine on the command line'', see these sources:

- WWW Security FAQ
  [http://www.w3.org/Security/Faq/](http://www.w3.org/Security/Faq/)
- Web FAQ
Where can I learn about object-oriented Perl programming?
A good place to start is perltoot, and you can use perlobj, perlboot, and perlbot for reference. Perltoot didn't come out until the 5.004 release; you can get a copy (in pod, html, or postscript) from http://www.perl.com/CPAN/doc/FMTEYEWTK/.
Where can I learn about linking C with Perl? [h2xs, xsubpp]
If you want to call C from Perl, start with perlxstut, moving on to perlxsl, xsubpp, and perl guts. If you want to call Perl from C, then read perl embedded, percall, and perl guts. Don't forget that you can learn a lot from looking at how the authors of existing extension modules wrote their code and solved their problems.
I've read perl embedded, perl guts, etc., but I can't embed perl in my C program; what am I doing wrong?
Download the ExtUtils::Embed kit from CPAN and run `make test'. If the tests pass, read the pods again and again and again. If they fail, see perlbug and send a bug report with the output of make test TEST_VERBOSE=1 along with perl -V.
When I tried to run my script, I got this message. What does it mean?
A complete list of Perl's error messages and warnings with explanatory text can be found in perldiag. You can also use the splain program (distributed with Perl) to explain the error messages:

perl program 2>diag.out
splain [-v] [-p] diag.out

or change your program to explain the messages for you:

use diagnostics;
or
use diagnostics -verbose;

What's MakeMaker?
This module (part of the standard Perl distribution) is designed to write a Makefile for an extension module from a Makefile.PL. For more information, see ExtUtils::MakeMaker.

AUTHOR AND COPYRIGHT
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No license file was found, but licenses were detected in source scan.

=head1 NAME

Pod::Simple::SimpleTree -- parse Pod into a simple parse tree

=head1 SYNOPSIS

% cat ptest.pod

=head1 PIE

I like B<pie>!

% perl -MPod::Simple::SimpleTree -MData::Dumper -e \
"print Dumper(Pod::Simple::SimpleTree->new->parse_file(shift)->root)" \ 
ptest.pod

$VAR1 = [
    'Document',
    { 'start_line' => 1 },
    [
    'head1',
    { 'start_line' => 1 },
    'PIE'
    ],
    [
    'Para',
    { 'start_line' => 3 },
    'I like ',
    [
    'B',
    {},
    'pie'
    ],
    '!' 
    ];

=head1 DESCRIPTION

This class is of interest to people writing a Pod processor/formatter.

This class takes Pod and parses it, returning a parse tree made just of arrayrefs, and hashrefs, and strings.

This is a subclass of L<Pod::Simple> and inherits all its methods.
This class is inspired by XML::Parser's "Tree" parsing-style, although it doesn't use exactly the same LoL format.

=head1 METHODS

At the end of the parse, call C<< $parser->root >> to get the tree's top node.

=head1 Tree Contents

Every element node in the parse tree is represented by an arrayref of the form: C<< [ I<elementname>, \%attributes, I<...subnodes...> ] >>. See the example tree dump in the Synopsis, above.

Every text node in the tree is represented by a simple (non-ref) string scalar. So you can test C<ref($node)> to see whether you have an element node or just a text node.

The top node in the tree is C<< [ 'Document', \%attributes, I<...subnodes...> ] >>

=head1 SEE ALSO

L<Pod::Simple>

L<perllol>

L<The "Tree" subsubsection in XML::Parser/XML::Parser/"Tree">

=head1 SUPPORT

Questions or discussion about POD and Pod::Simple should be sent to the pod-people@perl.org mail list. Send an empty email to pod-people-subscribe@perl.org to subscribe.

This module is managed in an open GitHub repository, L<https://github.com/theory/pod-simple/>. Feel free to fork and contribute, or to clone L<git://github.com/theory/pod-simple.git> and send patches!

Patches against Pod::Simple are welcome. Please send bug reports to <bug-pod-simple@rt.cpan.org>.

=head1 COPYRIGHT AND DISCLAIMERS

Copyright (c) 2002 Sean M. Burke.

This library is free software; you can redistribute it and/or modify it
under the same terms as Perl itself.

This program is distributed in the hope that it will be useful, but without any warranty; without even the implied warranty of merchantability or fitness for a particular purpose.

=head1 AUTHOR

Pod::Simple was created by Sean M. Burke <sburke@cpan.org>.
But don't bother him, he's retired.

Pod::Simple is maintained by:

=over

=item * Allison Randal <allison@perl.org>

=item * Hans Dieter Pearcey <hdp@cpan.org>

=item * David E. Wheeler <dwheeler@cpan.org>

=back

=cut

Found in path(s):
* /opt/cola/permits/1006412822_1635364626.07/0/perl-Pod-Simple-3.28-4.amzn2.src.rpm-cosi-expand-archive-elJuegKu/Pod-Simple-3.28.tar.gz-cosi-expand-archive-NgLEueVa/Pod-Simple-3.28/lib/Pod/Simple/SimpleTree.pm
No license file was found, but licenses were detected in source scan.

=head1 NAME

Pod::Simple::Checker -- check the Pod syntax of a document

=head1 SYNOPSIS

perl -MPod::Simple::Checker -e \
"exit Pod::Simple::Checker->filter(shift)->any_errata_seen" \
thingy.pod

=head1 DESCRIPTION

This class is for checking the syntactic validity of Pod.
It works by basically acting like a simple-minded version of L<Pod::Simple::Text> that formats only the "Pod Errors" section (if Pod::Simple even generates one for the given document). This is a subclass of L<Pod::Simple> and inherits all its methods.
SEE ALSO

L<Pod::Simple>, L<Pod::Simple::Text>, L<Pod::Checker>

SUPPORT

Questions or discussion about POD and Pod::Simple should be sent to the
pod-people@perl.org mail list. Send an empty email to
pod-people-subscribe@perl.org to subscribe.

This module is managed in an open GitHub repository,
L<https://github.com/theory/pod-simple/>. Feel free to fork and contribute, or
to clone L<git://github.com/theory/pod-simple.git> and send patches!

Patches against Pod::Simple are welcome. Please send bug reports to
<bug-pod-simple@rt.cpan.org>.

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without any warranty; without even the implied warranty of
merchantability or fitness for a particular purpose.

AUTHOR

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* David E. Wheeler C<wheeler@cpan.org>

back

cut
Found in path(s):
* /opt/cola/permits/1006412822_1635364626.07/0/perl-Pod-Simple-3.28-4.amzn2.src.rpm-cosi-expand-archive-
elJueKu/Pod-Simple-3.28.tar.gz-cosi-expand-archive-NgLueVa/Pod-Simple-3.28/lib/Pod/Simple/Checker.pm
No license file was found, but licenses were detected in source scan.

=head1 NAME

Pod::Simple::Search - find POD documents in directory trees

=head1 SYNOPSIS

use Pod::Simple::Search;
my $name2path = Pod::Simple::Search->new->limit_glob('LWP::*')->survey;
print "Looky see what I found: ",
    join(’,’, sort keys %$name2path), ”n”;

print "LWP-UA docs = ”,
    Pod::Simple::Search->new->find('LWP::UserAgent') || ”?”,
    ”n”;

=head1 DESCRIPTION

B<Pod::Simple::Search> is a class that you use for running searches
for Pod files. An object of this class has several attributes
(mostly options for controlling search options), and some methods
for searching based on those attributes.

The way to use this class is to make a new object of this class,
set any options, and then call one of the search options
(probably C<survey> or C<find>). The sections below discuss the
syntaxes for doing all that.

=head1 CONSTRUCTOR

This class provides the one constructor, called C<new>.
It takes no parameters:

use Pod::Simple::Search;
my $search = Pod::Simple::Search->new;

=head1 ACCESSORS

This class defines several methods for setting (and, occasionally,
reading) the contents of an object. With two exceptions (discussed at
the end of this section), these attributes are just for controlling the
way searches are carried out.
Note that each of these return `$self` when you call them as `<< $self->I<whatever(value)> >>`. That's so that you can chain together set-attribute calls like this:

```perl
my $name2path =
    Pod::Simple::Search->new
    -> inc(0) -> verbose(1) -> callback(&blab)
    -> survey(@there);
```

...which works exactly as if you'd done this:

```perl
my $search = Pod::Simple::Search->new;
$search->inc(0);
$search->verbose(1);
$search->callback(&blab);
my $name2path = $search->survey(@there);
```

=over

=item $search->inc( I<true-or-false> );

This attribute, if set to a true value, means that searches should implicitly add Perl's `@INC` paths. This automatically considers paths specified in the `PERL5LIB` environment as this is prepended to `@INC` by the Perl interpreter itself. This attribute's default value is `TRUE`. If you want to search only specific directories, set `$self->inc(0)` before calling `$inc->survey` or `$inc->find`.

=item $search->verbose( I<nonnegative-number> );

This attribute, if set to a nonzero positive value, will make searches output (via `warn`) notes about what they're doing as they do it. This option may be useful for debugging a pod-related module. This attribute's default value is zero, meaning that no `warn` messages are produced. (Setting verbose to 1 turns on some messages, and setting it to 2 turns on even more messages, i.e., makes the following search(es) even more verbose than 1 would make them.)

=item $search->limit_glob( I<some-glob-string> );

This option means that you want to limit the results just to items whose podnames match the given glob/wildcard expression. For example, you might limit your search to just "LWP::*", to search only for modules starting with "LWP::*" (but not including the module "LWP" itself); or you might limit your search to "LW*" to see only modules whose (full)
names begin with "L.W"; or you might search for "*Find*" to search for
all modules with "Find" somewhere in their full name. (You can also use
"?" in a glob expression; so "DB?" will match "DBI" and "DBD").

=item $search->callback( I<\&some_routine> );

This attribute means that every time this search sees a matching
Pod file, it should call this callback routine. The routine is called
with two parameters: the current file's filespec, and its pod name.
(For example: C<("/etc/perljunk/File/Crunk.pm", "File::Crunk")> would
be in C<@_>,.)

The callback routine's return value is not used for anything.

This attribute's default value is false, meaning that no callback
is called.

=item $search->laborious( I<true-or-false> );

Unless you set this attribute to a true value, Pod::Search will
apply Perl-specific heuristics to find the correct module PODs quickly.
This attribute's default value is false. You won't normally need
to set this to true.

Specifically: Turning on this option will disable the heuristics for
seeing only files with Perl-like extensions, omitting subdirectories
that are numeric but do I<not> match the current Perl interpreter's
version ID, suppressing F<site_perl> as a module hierarchy name, etc.

=item $search->shadows( I<true-or-false> );

Unless you set this attribute to a true value, Pod::Simple::Search will
consider only the first file of a given modulename as it looks thru the
specified directories; that is, with this option off, if
Pod::Simple::Search has seen a C<somepathdir/Foo/Bar.pm> already in this
search, then it won't bother looking at a C<somelaterpathdir/Foo/Bar.pm>
later on in that search, because that file is merely a "shadow". But if
you turn on C<< $self->shadows(1) >>, then these "shadow" files are
inspected too, and are noted in the pathname2podname return hash.

This attribute's default value is false; and normally you won't
need to turn it on.

=item $search->limit_re( I<some-regxp> );
Setting this attribute (to a value that's a regexp) means that you want to limit the results just to items whose podnames match the given regexp. Normally this option is not needed, and the more efficient C<limit_glob> attribute is used instead.

=item $search->dir_prefix( I<some-string-value> );

Setting this attribute to a string value means that the searches should begin in the specified subdirectory name (like "Pod" or "File::Find", also expressable as "File/Find"). For example, the search option

C<< $search->limit_glob("File::Find::R*") >>

is the same as the combination of the search options

C<< $search->limit_re("^File::Find::R") -> dir_prefix("File::Find") >>.

Normally you don't need to know about the C<dir_prefix> option, but I include it in case it might prove useful for someone somewhere.

(Implementationally, searching with limit_glob ends up setting limit_re and usually dir_prefix.)

=item $search->progress( I<some-progress-object> );

If you set a value for this attribute, the value is expected to be an object (probably of a class that you define) that has a C<reach> method and a C<done> method. This is meant for reporting progress during the search, if you don't want to use a simple callback.

Normally you don't need to know about the C<progress> option, but I include it in case it might prove useful for someone somewhere.

While a search is in progress, the progress object's C<reach> and C<done> methods are called like this:

# Every time a file is being scanned for pod:
$progress->reach($count, "Scanning $file");  ++$count;

# And then at the end of the search:
$progress->done("Noted $count Pod files total");

Internally, we often set this to an object of class Pod::Simple::Progress. That class is probably undocumented, but you may wish to look at its source.

=item $name2path = $self->name2path;
This attribute is not a search parameter, but is used to report the result of C<survey> method, as discussed in the next section.

==item $path2name = $self->path2name;

This attribute is not a search parameter, but is used to report the result of C<survey> method, as discussed in the next section.

=back

=head1 MAIN SEARCH METHODS

Once you've actually set any options you want (if any), you can go ahead and use the following methods to search for Pod files in particular ways.

=head2 C<< $search->survey( @directories ) >>

The method C<survey> searches for POD documents in a given set of files and/or directories. This runs the search according to the various options set by the accessors above. (For example, if the C<inc> attribute is on, as it is by default, then the perl @INC directories are implicitly added to the list of directories (if any) that you specify.)

The return value of C<survey> is two hashes:

=over

=item C<name2path>

A hash that maps from each pod-name to the filespec (like "Stuff::Thing" => "/whatever/plib/Stuff/Thing.pm")

=item C<path2name>

A hash that maps from each Pod filespec to its pod-name (like "/whatever/plib/Stuff/Thing.pm" => "Stuff::Thing")

=back

Besides saving these hashes as the hashref attributes C<name2path> and C<path2name>, calling this function also returns these hashrefs. In list context, the return value of C<< $search->survey >> is the list C<($%name2path, %path2name)>. In scalar context, the return value is C<$%name2path>. Or you can just call this in void context.
Regardless of calling context, calling \texttt{Csurvey} saves its results in its \texttt{Cname2path} and \texttt{Cpath2name} attributes.

E.g., when searching in \texttt{F$HOME/perl5lib}, the file \texttt{F$HOME/perl5lib/MyModule.pm} would get the POD name \texttt{I<MyModule>}, whereas \texttt{F$HOME/perl5lib/Myclass/Subclass.pm} would be \texttt{I<Myclass::Subclass>}. The name information can be used for POD translators.

Only text files containing at least one valid POD command are found.

In verbose mode, a warning is printed if shadows are found (i.e., more than one POD file with the same POD name is found, e.g. \texttt{F<CPAN.pm> in different directories}). This usually indicates duplicate occurrences of modules in the \texttt{I@INC} search path, which is occasionally inadvertent (but is often simply a case of a user's path dir having a more recent version than the system's general path dirs in general.)

The options to this argument is a list of either directories that are searched recursively, or files. (Usually you wouldn't specify files, but just dirs.) Or you can just specify an empty-list, as in \texttt{$name2path; with the C<inc> option on, as it is by default, teh}

The POD names of files are the plain basenames with any Perl-like extension (.pm, .pl, .pod) stripped, and path separators replaced by \texttt{C::}'s.

Calling Pod::Simple::Search->search(...) is short for Pod::Simple::Search->new->search(...). That is, a throwaway object with default attribute values is used.

\begin{verbatim}
=head2 C<< $search->simplify_name( $str ) >>

The method B<simplify_name> is equivalent to B<basename>, but also strips Perl-like extensions (.pm, .pl, .pod) and extensions like F<bat>, F<cmd> on Win32 and OS/2, or F<com> on VMS, respectively.

=head2 C<< $search->find( $pod ) >>

=head2 C<< $search->find( $pod, @search_dirs ) >>

Returns the location of a Pod file, given a Pod/module/script name (like "Foo::Bar" or "perlvar" or "perldoc"), and an idea of what files/directories to look in.
\end{verbatim}
It searches according to the various options set by the accessors above. (For example, if the C<inc> attribute is on, as it is by default, then the perl @INC directories are implicitly added to the list of directories (if any) that you specify.)

This returns the full path of the first occurrence to the file. Package names (eg 'A::B') are automatically converted to directory names in the selected directory. Additionally, '.pm', '.pl' and '.pod' are automatically appended to the search as required. (So, for example, under Unix, "A::B" is converted to "somedir/A/B.pm", "somedir/A/B.pod", or "somedir/A/B.pl", as appropriate.)

If no such Pod file is found, this method returns undef.

If any of the given search directories contains a F<pod/> subdirectory, then it is searched. (That's how we manage to find F<perlfunc>, for example, which is usually in F<pod/perlfunc> in most Perl dists.)

The C<verbose> and C<inc> attributes influence the behavior of this search; notably, C<inc>, if true, adds @INC I<and also $Config::Config{'scriptdir'}> to the list of directories to search.

It is common to simply say C<< $filename = Pod::Simple::Search-> new ->find("perlvar") >> so that just the @INC (well, and scriptdir) directories are searched. (This happens because the C<inc> attribute is true by default.)

Calling Pod::Simple::Search->find(...) is short for Pod::Simple::Search->new->find(...). That is, a throwaway object with default attribute values is used.

=head2 C<< $self->contains_pod( $file ) >>

Returns true if the supplied filename (not POD module) contains some Pod documentation.

=head1 SUPPORT

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AUTHOR

Pod::Simple was created by Sean M. Burke <sburke@cpan.org> with code borrowed from Marek Rouchal's L<Pod::Find>, which in turn heavily borrowed code from Nick Ing-Simmons' C<PodToHtml>.

But don't bother him, he's retired.

Pod::Simple is maintained by:

Allison Randal <allison@perl.org>
Hans Dieter Pearcey <hdp@cpan.org>
David E. Wheeler <dwheeler@cpan.org>

NAME

Pod::Simple::PullParser -- a pull-parser interface to parsing Pod

SYNOPSIS

my $parser = SomePodProcessor->new;
$parser->set_source( "whatever.pod" );
$parser->run;
Or:
my $parser = SomePodProcessor->new;
$parser->set_source( $some_filehandle_object );
$parser->run;
Or:
my $parser = SomePodProcessor->new;
$parser->set_source( \$document_source );
$parser->run;
Or:
my $parser = SomePodProcessor->new;
$parser->set_source( \@document_lines );
$parser->run;
And elsewhere:
require 5;
package SomePodProcessor;
use strict;
use base qw(Pod::Simple::PullParser);
sub run {
my $self = shift;
Token:
while(my $token = $self->get_token) {
...process each token...
}
}
=head1 DESCRIPTION
This class is for using Pod::Simple to build a Pod processor -- but
one that uses an interface based on a stream of token objects,
instead of based on events.
This is a subclass of L<Pod::Simple> and inherits all its methods.
A subclass of Pod::Simple::PullParser should define a C<run> method
that calls C<< $token = $parser->get_token >> to pull tokens.
See the source for Pod::Simple::RTF for an example of a formatter
that uses Pod::Simple::PullParser.

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=head1 METHODS

=over

=item my $token = $parser->get_token

This returns the next token object (which will be of a subclass of
L<Pod::Simple::PullParserToken>), or undef if the parser-stream has hit
the end of the document.

=item $parser->unget_token( $token )

=item $parser->unget_token( $token1, $token2, ... )

This restores the token object(s) to the front of the parser stream.

=back

The source has to be set before you can parse anything. The lowest-level
way is to call C<set_source>:

=over

=item $parser->set_source( $filename )

=item $parser->set_source( $filehandle_object )

=item $parser->set_source( \$document_source )

=item $parser->set_source( \$document_lines )

=back

Or you can call these methods, which Pod::Simple::PullParser has defined
to work just like Pod::Simple's same-named methods:

=over

=item $parser->parse_file(...)

=item $parser->parse_string_document(...)

=item $parser->filter(...)

=item $parser->parse_from_file(...)

=back
For those to work, the Pod-processing subclass of
Pod::Simple::PullParser has to have defined a $parser->run method --
so it is advised that all Pod::Simple::PullParser subclasses do so.
See the Synopsis above, or the source for Pod::Simple::RTF.

Authors of formatter subclasses might find these methods useful to
call on a parser object that you haven't started pulling tokens
from yet:

=over
=item my $title_string = $parser->get_title

This tries to get the title string out of $parser, by getting some tokens,
and scanning them for the title, and then ungetting them so that you can
process the token-stream from the beginning.

For example, suppose you have a document that starts out:

=head1 NAME

Hoo::Boy::Wowza -- Stuff B<wow> yeah!

$parser->get_title on that document will return "Hoo::Boy::Wowza --
Stuff wow yeah!". If the document starts with:

=head1 Name

Hoo::Boy::W00t -- Stuff B<w00t> yeah!

Then you'll need to pass the C<nocase> option in order to recognize "Name":

$parser->get_title(nocase => 1);

In cases where get_title can't find the title, it will return empty-string
(""").

=item my $title_string = $parser->get_short_title

This is just like get_title, except that it returns just the modulename, if
the title seems to be of the form "SomeModuleName -- description".

For example, suppose you have a document that starts out:

=head1 NAME

Hoo::Boy::Wowza -- Stuff B<wow> yeah!
then $parser->get_short_title on that document will return "Hoo::Boy::Wowza".

But if the document starts out:

=head1 NAME

Hooboy, stuff B<wow> yeah!

then $parser->get_short_title on that document will return "Hooboy, stuff wow yeah!". If the document starts with:

=head1 Name

Hoo::Boy::W00t -- Stuff B<w00t> yeah!

Then you'll need to pass the C<nocase> option in order to recognize "Name":

$parser->get_short_title(nocase => 1);

If the title can't be found, then get_short_title returns empty-string ("").

=item $author_name   = $parser->get_author

This works like get_title except that it returns the contents of the 
"=head1 AUTHOR\n\nParagraph...\n" section, assuming that that section isn't terribly long. To recognize a "=head1 Author\n\nParagraph\n" section, pass the C<nocase> option:

$parser->get_author(nocase => 1);

(This method tolerates "AUTHORS" instead of "AUTHOR" too.)

=item $description_name = $parser->get_description

This works like get_title except that it returns the contents of the 
"=head1 DESCRIPTION\n\nParagraph...\n" section, assuming that that section isn't terribly long. To recognize a "=head1 Description\n\nParagraph\n" section, pass the C<nocase> option:

$parser->get_description(nocase => 1);

=item $version_block = $parser->get_version

This works like get_title except that it returns the contents of the 
"=head1 VERSION\n\n[BIG BLOCK]\n" block. Note that this does NOT return the module's C<$VERSION>!! To recognize a
"=head1 Version

[ BIG BLOCK ]
" section, pass the C<nocase> option:

$parser->get_version(nocase => 1);

=back

=head1 NOTE

You don't actually I<have> to define a C<run> method. If you're writing a Pod-formatter class, you should define a C<run> just so that users can call C<parse_file> etc, but you don't I<have> to.

And if you're not writing a formatter class, but are instead just writing a program that does something simple with a Pod::PullParser object (and not an object of a subclass), then there's no reason to bother subclassing to add a C<run> method.

=head1 SEE ALSO

L<Pod::Simple>

L<Pod::Simple::PullParserToken> -- and its subclasses
L<Pod::Simple::PullParserStartToken>,
L<Pod::Simple::PullParserTextToken>, and
L<Pod::Simple::PullParserEndToken>.

L<HTML::TokeParser>, which inspired this.

=head1 SUPPORT

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=over

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=item * David E. Wheeler C<dwheeler@cpan.org>

=back

=cut

JUNK:

sub _old_get_title {  # some witchery in here
    my $self = $_[0];
    my $title;
    my @to_unget;
    while(1) {
        push @to_unget, $self->get_token;
        unless(defined $to_unget[-1]) {  # whoops, short doc!
            pop @to_unget;
            last;
        }
        DEBUG and print "-Got token ", $to_unget[-1]->dump, "\n";
    }
    (DEBUG and print "Too much in the buffer:\n"),
    last if @to_unget > 25;  # sanity
    my $pattern = ";
    if( #$to_unget[-1]->type eq 'end'
        #and $to_unget[-1]->tagname eq 'Para'
        #and
        ($pattern = join("",
            map {;}}

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=head1 NAME

Pod::Simple::HTML - convert Pod to HTML

=head1 SYNOPSIS

perl -MPod::Simple::HTML -e Pod::Simple::HTML::go thingy.pod

=head1 DESCRIPTION

This class is for making an HTML rendering of a Pod document.

This is a subclass of L<Pod::Simple::PullParser> and inherits all its methods (and options).

Note that if you want to do a batch conversion of a lot of Pod documents to HTML, you should see the module L<Pod::Simple::HTMLBatch>.

=head1 CALLING FROM THE COMMAND LINE

TODO

perl -MPod::Simple::HTML -e Pod::Simple::HTML::go Thing.pod Thing.html

=head1 CALLING FROM PERL

=head2 Minimal code

use Pod::Simple::HTML;
my $p = Pod::Simple::HTML->new;
$p->output_string(my $html);
$p->parse_file('path/to/Module/Name.pm');
open my $out, '>', 'out.html' or die "Cannot open 'out.html': $!
print $out $html;

=head2 More detailed example

use Pod::Simple::HTML;
Set the content type:

$Pod::Simple::HTML::Content_decl = q{ <meta http-equiv="Content-Type" content="text/html; charset=UTF-8" > };

my $p = Pod::Simple::HTML->new;

Include a single javascript source:

$p->html_javascript('http://abc.com/a.js');

Or insert multiple javascript source in the header
(or for that matter include anything, thought this is not recommended)

$p->html_javascript("<script type="text/javascript" src="http://abc.com/b.js"></script>
<script type="text/javascript" src="http://abc.com/c.js"></script>");

Include a single css source in the header:

$p->html_css('/style.css');

or insert multiple css sources:

$p->html_css("<link rel="stylesheet" type="text/css" title="pod_stylesheet" href="http://remote.server.com/jquery.css">
<link rel="stylesheet" type="text/css" title="pod_stylesheet" href="/style.css">");

Tell the parser where should the output go. In this case it will be placed in the $html variable:

my $html;
$p->output_string($html);

Parse and process a file with pod in it:

$p->parse_file('path/to/Module/Name.pm');

=head1 METHODS

TODO
all (most?) accessorized methods

The following variables need to be set <before> the call to the ->new constructor.

Set the string that is included before the opening <html> tag:

$Pod::Simple::HTML::Doctype_decl = qq{ <!DOCTYPE HTML PUBLIC "-//W3C//DTD HTML 4.01 Transitional//EN" }
Set the content-type in the HTML head: (defaults to ISO-8859-1)

$qPod::Simple::HTML::Content_decl = q{<meta http-equiv="Content-Type" content="text/html; charset=UTF-8" >};

Set the value that will be embedded in the opening tags of F, C tags and verbatim text.
F maps to <em>, C maps to <code>, Verbatim text maps to <pre> (Computerese defaults to "")

$qPod::Simple::HTML::Computerese = ' class='some_class_name';

=head2 html_css

=head2 html Javascript

=head2 title_prefix

=head2 title_postfix

=head2 html_header_before_title

This includes everything before the <title> opening tag including the Document type and including the opening <title> tag. The following call will set it to be a simple HTML file:

$p->html_header_before_title('<html><head><title>');

=head2 html_h_level

Normally =head1 will become <h1>, =head2 will become <h2> etc.
Using the html_h_level method will change these levels setting the h level of =head1 tags:

$p->html_h_level(3);

Will make sure that =head1 will become <h3> and =head2 will become <h4> etc...

=head2 index

Set it to some true value if you want to have an index (in reality a table of contents) to be added at the top of the generated HTML.

$p->index(1);

=head2 html_header_after_title
Includes the closing tag of </title> and through the rest of the head
till the opening of the body

$p->html_header_after_title('</title>...</head><body id="my_id">');

=head2 html_footer

The very end of the document:

$p->html_footer( qq[
<!-- end doc -->

</body></html>
] );

=head1 SUBCLASING

Can use any of the methods described above but for further customization
one needs to override some of the methods:

package My::Pod;
use strict;
use warnings;
use base 'Pod::Simple::HTML';

# needs to return a URL string such
# http://some.other.com/page.html
# #anchor_in_the_same_file
# /internal/ref.html
sub do_pod_link { 
    # My::Pod object and Pod::Simple::PullParserStartToken object
    my ($self, $link) = @_; 

    say $link->tagname;          # will be L for links
    say $link->attr('to');       #
    say $link->attr('type');     # will be 'pod' always
    say $link->attr('section');

    # Links local to our web site
    if ($link->tagname eq 'L' and $link->attr('type') eq 'pod') { 
        my $to = $link->attr('to');
        if ($to =~ /^Padre::/) { 
            $to =~ s{::}{/}g;
            return "/docs/Padre/$to.html";
        } 
    } 

    # all other links are generated by the parent class
    my $ret = $self->SUPER::do_pod_link($link);
    return $ret;
}
use My::Pod;

my $p = My::Pod->new;

my $HTML;
$p->output_string($HTML);
$p->parse_file('path/to/Module/Name.pm');
open my $out, '>', 'out.html' or die;
print $out $HTML;

TODO

maybe override do_beginning do_end

=head1 SEE ALSO

L<Pod::Simple>, L<Pod::Simple::HTMLBatch>

TODO: a corpus of sample Pod input and HTML output? Or common idioms?

=head1 SUPPORT

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=head1 ACKNOWLEDGEMENTS

Thanks to L<Hurricane Electric|http://he.net/> for permission to use its L<Linux man pages online|http://man.he.net/> site for man page links.

Thanks to L<search.cpan.org|http://search.cpan.org/> for permission to use the site for Perl module links.

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=back

=cut

Found in path(s):
* /opt/cola/permits/1006412822_1635364626.07/0/perl-Pod-Simple-3.28-4.amzn2.src.rpm-cosi-expand-archive-elJuegKu/Pod-Simple-3.28.tar.gz-cosi-expand-archive-NgLEueVa/Pod-Simple-3.28/lib/Pod/Simple/HTML.pm
No license file was found, but licenses were detected in source scan.

---
abstract: 'framework for parsing Pod'
author:
- 'Allison Randal <allison@perl.org>'
build_requires:
  ExtUtils::MakeMaker: 0
configure_requires:
  ExtUtils::MakeMaker: 0
dynamic_config: 1
generated_by: 'ExtUtils::MakeMaker version 6.6302, CPAN::Meta::Converter version 2.120921'
license: perl
meta-spec:
  url: http://module-build.sourceforge.net/META-spec-v1.4.html
  version: 1.4
=head1 NAME

Pod::Simple::PullParserStartToken -- start-tokens from Pod::Simple::PullParser

=head1 SYNOPSIS

(See L&lt;Pod::Simple::PullParser&gt;)

=head1 DESCRIPTION

When you do $parser-&gt;get_token on a L&lt;Pod::Simple::PullParser&gt; object, you might get an object of this class.

This is a subclass of L&lt;Pod::Simple::PullParserToken&gt; and inherits all its methods, and adds these methods:
This returns the tagname for this start-token object. For example, parsing a "=head1 ..." line will give you a start-token with the tagname of "head1", token(s) for its content, and then an end-token with the tagname of "head1".

This changes the tagname for this start-token object. You probably won't need to do this.

A shortcut for $token->tagname...

These are shortcuts for C<< $token->tag() eq $somestring >>

This returns the value of the I<attrname> attribute for this start-token object, or undef.

For example, parsing a LZ<< <Foo/>"Bar" >> link will produce a start-token with a "to" attribute with the value "Foo", a "type" attribute with the value "pod", and a "section" attribute with the value "Bar".

This sets the I<attrname> attribute for this start-token object to $newvalue. You probably won't need to do this.

This returns the hashref that is the attribute set for this start-token. This is useful if (for example) you want to ask what all the attributes are -- you can just do C<< keys @{$token->attr_hash} >>
C<<
Pod::Simple::PullParserStartToken->new( I<tagname>, I<attrhash> )
>>

=head1 SEE ALSO

L<Pod::Simple::PullParserToken>, L<Pod::Simple>, L<Pod::Simple::Subclassing>

=head1 SEE ALSO

L<Pod::Simple::PullParserToken>, L<Pod::Simple>, L<Pod::Simple::Subclassing>

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This program is distributed in the hope that it will be useful, but without any warranty; without even the implied warranty of merchantability or fitness for a particular purpose.

=head1 AUTHOR

Pod::Simple was created by Sean M. Burke <sburke@cpan.org>. But don't bother him, he's retired.

Pod::Simple is maintained by:

=over

=item * Allison Randal C<allison@perl.org>

=item * Hans Dieter Pearcey C<hdp@cpan.org>

=over
Found in path(s):
* /opt/cola/permits/1006412822_1635364626.07/0/perl-Pod-Simple-3.28-4.amzn2.src.rpm-cosi-expand-archive-
elJuegKu/Pod-Simple-3.28.tar.gz-cosi-expand-archive-NgLEueVa/Pod-Simple-
3.28/lib/Pod/Simple/PullParserStartToken.pm
No license file was found, but licenses were detected in source scan.

=head1 SEE ALSO
L<Pod::Simple>, L<Pod::Simple::Text>, L<Pod::Spell>

=head1 SUPPORT

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pod-people@perl.org mail list. Send an empty email to
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L<https://github.com/theory/pod-simple/>. Feel free to fork and contribute, or
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=head1 ACKNOWLEDGEMENTS

Thanks to L<Hurricane Electric|http://he.net/> for permission to use its
L<Linux man pages online|http://man.he.net/> site for man page links.

Thanks to L<search.cpan.org|http://search.cpan.org/> for permission to use the
site for Perl module links.
Pod::Simple::XHTML was created by Allison Randal <allison@perl.org>.

Pod::Simple was created by Sean M. Burke <sburke@cpan.org>.
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=item * David E. Wheeler C<dwheeler@cpan.org>
=back
=cut

Found in path(s):
* /opt/cola/permits/1006412822_1635364626.07/0/perl-Pod-Simple-3.28-4.amzn2.src.rpm-cosi-expand-archive-elJuegKu/Pod-Simple-3.28.tar.gz-cosi-expand-archive-NgLEueVa/Pod-Simple-3.28/lib/Pod/Simple/XHTML.pm
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=head1 NAME

Pod::Simple::Debug -- put Pod::Simple into trace/debug mode

=head1 SYNOPSIS

use Pod::Simple::Debug (5);  # or some integer

Or:

my $debuglevel;
use Pod::Simple::Debug ($debuglevel, 0);
...some stuff that uses Pod::Simple to do stuff, but which
you don't want debug output from...

$debug_level = 4;
...some stuff that uses Pod::Simple to do stuff, but which
you DO want debug output from...

$debug_level = 0;
=head1 DESCRIPTION

This is an internal module for controlling the debug level (a.k.a. trace level) of Pod::Simple. This is of interest only to Pod::Simple developers.

=head1 CAVEATS

Note that you should load this module I<before> loading Pod::Simple (or any Pod::Simple-based class). If you try loading Pod::Simple::Debug after &Pod::Simple::DEBUG is already defined, Pod::Simple::Debug will throw a fatal error to the effect that "it's too late to call Pod::Simple::Debug".

Note that the C<use Pod::Simple::Debug ($x, I<somenum>)> mode will make Pod::Simple (et al) run rather slower, since &Pod::Simple::DEBUG won't be a constant sub anymore, and so Pod::Simple (et al) won't compile with constant-folding.

=head1 GUTS

Doing this:

use Pod::Simple::Debug (5); # or some integer

is basically equivalent to:

BEGIN { sub Pod::Simple::DEBUG () {5} } # or some integer
use Pod::Simple ();

And this:

use Pod::Simple::Debug ($debug_level,0); # or some integer

is basically equivalent to this:

my $debug_level;
BEGIN { $debug_level = 0 }
BEGIN { sub Pod::Simple::DEBUG () { $debug_level } }
use Pod::Simple ();

=head1 SEE ALSO

L<Pod::Simple>

The article "Constants in Perl", in I<The Perl Journal> issue
21. See L<http://interglacial.com/tpj/21/>

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=head1 NAME
Pod::Simple - framework for parsing Pod

=head1 SYNOPSIS
TODO

=head1 DESCRIPTION
Pod::Simple is a Perl library for parsing text in the Pod ("plain old
documentation") markup language that is typically used for writing
documentation for Perl and for Perl modules. The Pod format is explained
L<perlpod>; the most common formatter is called C<perldoc>.

Be sure to read L</ENCODING> if your Pod contains non-ASCII characters.

Pod formatters can use Pod::Simple to parse Pod documents and render them into
plain text, HTML, or any number of other formats. Typically, such formatters
will be subclasses of Pod::Simple, and so they will inherit its methods, like
C<pod_file>.

If you're reading this document just because you have a Pod-processing
subclass that you want to use, this document (plus the documentation for the
subclass) is probably all you need to read.

If you're reading this document because you want to write a formatter
subclass, continue reading it and then read L<Pod::Simple::Subclassing>, and
then possibly even read L<perlpodspec> (some of which is for parser-writers,
but much of which is notes to formatter-writers).

=head1 MAIN METHODS

=over

=item C<< $parser = I<SomeClass>-{}new(); >>

This returns a new parser object, where I<SomeClass> is a subclass
of Pod::Simple.

=item C<< $parser->output_fh( *OUT ); >>

This sets the filehandle that C<$parser>`s output will be written to.
You can pass C<<STDOUT>>, otherwise you should probably do something
like this:
my $outfile = "output.txt";
open TXTOUT, ">$outfile" or die "Can't write to $outfile: $!";
$parser->output_fh(*TXTOUT);

...before you call one of the C<< $parser->parse_I<whatever> >> methods.

=item C<< $parser->output_string( \$somestring ); >>
This sets the string that C<$parser>'s output will be sent to, instead of any filehandle.

=item C<< $parser->parse_file( I<$some_filename> ); >>
=item C<< $parser->parse_file( *INPUT_FH ); >>
This reads the Pod content of the file (or filehandle) that you specify, and processes it with that C<$parser> object, according to however C<$parser>'s class works, and according to whatever parser options you have set up for this C<$parser> object.

=item C<< $parser->parse_string_document( I<$all_content> ); >>
This works just like C<parse_file> except that it reads the Pod content not from a file, but from a string that you have already in memory.

=item C<< $parser->parse_lines( I<...@lines...>, undef ); >>
The other C<parse_I<whatever>> methods are meant to be called only once per C<$parser> object; but C<parse_lines> can be called as many times per C<$parser> object as you want, as long as the last call (and only the last call) ends with an C<undef> value.

=item C<< $parser->content_seen >>
This returns true only if there has been any real content seen for this document. Returns false in cases where the document contains content, but does not make use of any Pod markup.

=item C<< I<SomeClass>-filter( I<$filename> ); >>
This is a shortcut method for creating a new parser object, setting the output handle to STDOUT, and then processing the specified file (or filehandle, or in-memory document). This is handy for one-liners like this:

```perl
perl -MPod::Simple::Text -e "Pod::Simple::Text->filter('thingy.pod')"
```

=head1 SECONDARY METHODS

Some of these methods might be of interest to general users, as well as of interest to formatter-writers.

Note that the general pattern here is that the accessor-methods read the attribute's value with

```perl
$value = $parser->attribute
```

and set the attribute's value with

```perl
$parser->attribute(newvalue)
```

For each accessor, I typically only mention one syntax or another, based on which I think you are actually most likely to use.

=over

=item C<< $parser->parse_characters(SOMEVALUE) >>

The Pod parser normally expects to read octets and to convert those octets to characters based on the C<<encoding>> declaration in the Pod source. Set this option to a true value to indicate that the Pod source is already a Perl character stream. This tells the parser to ignore any C<<encoding>> command and to skip all the code paths involving decoding octets.

=item C<< $parser->no_whining(SOMEVALUE) >>

If you set this attribute to a true value, you will suppress the parser's complaints about irregularities in the Pod coding. By default, this attribute's value is false, meaning that irregularities will be reported.

Note that turning this attribute to true won't suppress one or two kinds of complaints about rarely occurring unrecoverable errors.
If you set this attribute to a true value, you will stop the parser from generating a "POD ERRORS" section at the end of the document. By default, this attribute's value is false, meaning that an errata section will be generated, as necessary.

If you set this attribute to a true value, it will send reports of parsing errors to STDERR. By default, this attribute's value is false, meaning that no output is sent to STDERR.

Setting `complain_stderr` also sets `no_errata_section`.

This returns the filename that this parser object was set to read from.

This returns true if `parser` has read from a source, and has seen Pod content in it.

This returns true if `parser` has read from a source, and come to the end of that source.

The perlpod spec for a Verbatim paragraph is "It should be reproduced exactly...", which means that the whitespace you've used to indent your verbatim blocks will be preserved in the output. This can be annoying for outputs such as HTML, where that whitespace will remain in front of every line. It's an unfortunate case where syntax is turned into semantics.

If the POD your parsing adheres to a consistent indentation policy, you can have such indentation stripped from the beginning of every line of your verbatim blocks. This method tells Pod::Simple what to strip. For two-space indents, you'd use:

```
$parser->strip_verbatim_indent( ’ ’ );
```
For tab indents, you'd use a tab character:

```
$parser->strip_verbatim_indent("\t");
```

If the POD is inconsistent about the indentation of verbatim blocks, but you have figured out how much a particular verbatim block is indented, you can pass a code reference instead. The code reference will be executed with one argument, an array reference of all the lines in the verbatim block, and should return the value to be stripped from each line. For example, if you decide that you're fine to use the first line of the verbatim block to set the standard for indentation of the rest of the block, you can look at the first line and return the appropriate value, like so:

```
$new->strip_verbatim_indent(sub {
  my $lines = shift;
  (my $indent = $lines->[0]) =~ s/\S.*//;
  return $indent;
});
```

If you'd rather treat each line individually, you can do that, too, by just transforming them in-place in the code reference and returning `undef`. Say that you don't want any lines indented. You can do something like this:

```
$new->strip_verbatim_indent(sub {
  my $lines = shift;
  sub { s/^\s+// for @{ $lines },
           return undef;
  };
});
```

=back

=head1 TERTIARY METHODS

=over

=item $parser->abandon_output_fh() \x<abandon_output_fh>

Cancel output to the file handle. Any POD read by the $parser is not effected.

=item $parser->abandon_output_string() \x<abandon_output_string>

Cancel output to the output string. Any POD read by the $parser is not effected.

=item $parser->accept_code( @codes ) \x<accept_code>
Alias for L<< accept_codes >>.

=item C<< $parser->accept_codes( @codes ) >>X<accept_codes>

Allows C<$parser> to accept a list of L<perlpod/Formatting Codes>. This can be used to implement user-defined codes.

=item C<< $parser->accept_directive_as_data( @directives ) >>X<accept_directive_as_data>

Allows C<$parser> to accept a list of directives for data paragraphs. A directive is the label of a L<perlpod/Command Paragraph>. A data paragraph is one delimited by C<< =begin/=for/=end >> directives. This can be used to implement user-defined directives.

=item C<< $parser->accept_directive_as_processed( @directives ) >>X<accept_directive_as_processed>

Allows C<$parser> to accept a list of directives for processed paragraphs. A directive is the label of a L<perlpod/Command Paragraph>. A processed paragraph is also known as L<perlpod/Ordinary Paragraph>. This can be used to implement user-defined directives.

=item C<< $parser->accept_directive_as_verbatim( @directives ) >>X<accept_directive_as_verbatim>

Allows C<$parser> to accept a list of directives for L<perlpod/Verbatim Paragraph>. A directive is the label of a L<perlpod/Command Paragraph>. This can be used to implement user-defined directives.

=item C<< $parser->accept_target( @targets ) >>X<accept_target>

Alias for L<< accept_targets >>.

=item C<< $parser->accept_target_as_text( @targets ) >>X<accept_target_as_text>

Alias for L<< accept_targets_as_text >>.

=item C<< $parser->accept_targets( @targets ) >>X<accept_targets>

Accepts targets for C<< =begin/=for/=end >> sections of the POD.

=item C<< $parser->accept_targets_as_text( @targets ) >>X<accept_targets_as_text>

Accepts targets for C<< =begin/=for/=end >> sections that should be parsed as POD. For details, see L<< perlpodspec/About Data Paragraphs >>.

=item C<< $parser->any_errata_seen() >>X<any_errata_seen>

Used to check if any errata was seen.
I<Example:>

die "too many errors\n" if $parser->any_errata_seen();

=item C<< $parser->detected_encoding() >>X<detected_encoding>

Return the encoding corresponding to $encoding, but only if the encoding was recognized and handled.

=item C<< $parser->encoding() >>X<encoding>

Return encoding of the document, even if the encoding is not correctly handled.

=item C<< $parser->parse_from_file( $source, $to ) >>X<parse_from_file>

Parses from $source file to $to file. Similar to L<< Pod::Parser/parse_from_file >>.

=item C<< $parser->scream( @error_messages ) >>X<scream>

Log an error that can't be ignored.

=item C<< $parser->unaccept_code( @codes ) >>X<unaccept_code>

Alias for L<< unaccept_codes >>.

=item C<< $parser->unaccept_codes( @codes ) >>X<unaccept_codes>

Removes @codes as valid codes for the parse.

=item C<< $parser->unaccept_directive( @directives ) >>X<unaccept_directive>

Alias for L<< unaccept_directives >>.

=item C<< $parser->unaccept_directives( @directives ) >>X<unaccept_directives>

Removes @directives as valid directives for the parse.

=item C<< $parser->unaccept_target( @targets ) >>X<unaccept_target>

Alias for L<< unaccept_targets >>.

=item C<< $parser->unaccept_targets( @targets ) >>X<unaccept_targets>

Removes @targets as valid targets for the parse.

=item C<< $parser->version_report() >>X<version_report>
Retruns a string describing the version.

=item C<< $parser->whine( @error_messages ) >>X<whine>

Log an error unless C<< $parser->no_whining( TRUE ); >>.

=back

=head1 ENCODING

The Pod::Simple parser expects to read B<octets>. The parser will decode the
octets into Perl's internal character string representation using the value of
the C<=encoding> declaration in the POD source.

If the POD source does not include an C<=encoding> declaration, the parser will
attempt to guess the encoding (selecting one of UTF-8 or Latin-1) by examining
the first non-ASCII bytes and applying the heuristic described in
L<perlpodspec>.

If you set the C<parse_characters> option to a true value the parser will
expect characters rather than octets; will ignore any C<=encoding>; and will
make no attempt to decode the input.

=head1 CAVEATS

This is just a beta release -- there are a good number of things still
left to do. Notably, support for EBCDIC platforms is still half-done,
an untested.

=head1 SEE ALSO

L<Pod::Simple::Subclassing>

L<perlpod>perlpod

L<perlpodspec>perlpodspec

L<Pod::Escapes>Pod::Escapes

L<perldoc>

=head1 SUPPORT

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=item * David E. Wheeler <d wheeler@c pan.org>

=back

Documentation has been contributed by:

=over

=item * Gabor Szabo <szabgab@gmail.com>

=item * Shawn H Corey C<SHCOREY at cpan.org>

=back

=cut
No license file was found, but licenses were detected in source scan.

=head1 NAME

Pod::Simple::Text -- format Pod as plaintext

=head1 SYNOPSIS

perl -MPod::Simple::Text -e
"exit Pod::Simple::Text->filter(shift)->any_errata_seen"
    thingy.pod

=head1 DESCRIPTION

This class is a formatter that takes Pod and renders it as
wrapped plaintext.

Its wrapping is done by L<Text::Wrap>, so you can change
C<$Text::Wrap::columns> as you like.

This is a subclass of L<Pod::Simple> and inherits all its methods.

=head1 SEE ALSO

L<Pod::Simple>, L<Pod::Simple::TextContent>, L<Pod::Text>

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=head1 NAME

Pod::Simple::XMLOutStream -- turn Pod into XML

=head1 SYNOPSIS

perl -MPod::Simple::XMLOutStream -e \n"exit Pod::Simple::XMLOutStream->filter(shift)->any_errata_seen" \nthingy.pod

=head1 DESCRIPTION

Pod::Simple::XMLOutStream is a subclass of L<Pod::Simple> that parses Pod and turns it into XML.

Pod::Simple::XMLOutStream inherits methods from L<Pod::Simple>.
=head1 SEE ALSO

L<Pod::Simple::DumpAsXML> is rather like this class; see its documentation for a discussion of the differences.

L<Pod::Simple>, L<Pod::Simple::DumpAsXML>, L<Pod::SAX>

L<Pod::Simple::Subclassing>

The older (and possibly obsolete) libraries L<Pod::PXML>, L<Pod::XML>

=head1 ABOUT EXTENDING POD

TODO: An example or two of =extend, then point to Pod::Simple::Subclassing

=head1 ASK ME!

If you actually want to use Pod as a format that you want to render to XML (particularly if to an XML instance with more elements than normal Pod has), please email me (C<sburke@cpan.org>) and I'll probably have some recommendations.

For reasons of concision and energetic laziness, some methods and options in this module (and the dozen modules it depends on) are undocumented; but one of those undocumented bits might be just what you're looking for.

=head1 SEE ALSO

L<Pod::Simple>, L<Pod::Simple::Text>, L<Pod::Spell>

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=head1 NAME

Pod::Simple::RTF -- format Pod as RTF

=head1 SYNOPSIS

perl -MPod::Simple::RTF -e \
"exit Pod::Simple::RTF->filter(shift)->any_errata_seen" \
thingy.pod > thingy.rtf

=head1 DESCRIPTION

This class is a formatter that takes Pod and renders it as RTF, good for viewing/printing in MSWord, WordPad/write.exe, TextEdit, etc.
This is a subclass of \Pod::Simple and inherits all its methods.

=head1 FORMAT CONTROL ATTRIBUTES

You can set these attributes on the parser object before you call \parse_file (or a similar method) on it:

=item $parser->head1_halfpoint_size( I<halfpoint_integer> );

=item $parser->head2_halfpoint_size( I<halfpoint_integer> );

=item $parser->head3_halfpoint_size( I<halfpoint_integer> );

=item $parser->head4_halfpoint_size( I<halfpoint_integer> );

These methods set the size (in half-points, like 52 for 26-point) that these heading levels will appear as.

=item $parser->codeblock_halfpoint_size( I<halfpoint_integer> );

This method sets the size (in half-points, like 21 for 10.5-point) that codeblocks ("verbatim sections") will appear as.

=item $parser->header_halfpoint_size( I<halfpoint_integer> );

This method sets the size (in half-points, like 15 for 7.5-point) that the header on each page will appear in. The header is usually just "I<modulename> p. I<pagenumber>".

=item $parser->normal_halfpoint_size( I<halfpoint_integer> );

This method sets the size (in half-points, like 26 for 13-point) that normal paragraphic text will appear in.

=item $parser->no_proofing_exemptions( I<true_or_false> );

Set this value to true if you don't want the formatter to try putting a hidden code on all Perl symbols (as best as it can notice them) that labels them as being not in English, and so not worth spellchecking.

=item $parser->doc_lang( I<microsoft_decimal_language_code> )

This sets the language code to tag this document as being in. By default, it is currently the value of the environment variable
C\texttt{RTFDEFLANG}, or if that's not set, then the value 1033 (for US English).

Setting this appropriately is useful if you want to use the RTF to spellcheck, and/or if you want it to hyphenate right.

Here are some notable values:

- 1033  US English
- 2057  UK English
- 3081  Australia English
- 4105  Canada English
- 1034  Spain Spanish
- 2058  Mexico Spanish
- 1031  Germany German
- 1036  France French
- 3084  Canada French
- 1035  Finnish
- 1044  Norwegian (Bokmal)
- 2068  Norwegian (Nynorsk)

If you are particularly interested in customizing this module's output even more, see the source and/or write to me.

\textbf{SEE ALSO}\n
L\texttt{Pod::Simple}, L\texttt{RTF::Writer}, L\texttt{RTF::Cookbook}, L\texttt{RTF::Document}, L\texttt{RTF::Generator}

\textbf{SUPPORT}\n
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Pod::Simple is maintained by:

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=item * Allison Randal C<allison@perl.org>

=item * Hans Dieter Pearcey C<hdp@cpan.org>

=item * David E. Wheeler C<dwheeler@cpan.org>

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=cut

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sub dump { ']' . _esc( @{ $_[0] } ) . ' [' }

# JUNK:

sub _esc { return " unless @_; my @out; foreach my $in (@_) { push @out, "' . _esc( $in ) . ' \n" ;$out[-1] =~ s/\([^\-\:\:\.;\,"\\]\)/\x{%X}/eg; } return join ', ', @out; }
=head1 NAME

Pod::Simple::PullParserToken -- tokens from Pod::Simple::PullParser

=head1 SYNOPSIS

Given a $parser that's an object of class Pod::Simple::PullParser
(or a subclass)...

while(my $token = $parser->get_token) {
    $DEBUG and print "Token: ", $token->dump, "\n";
    if($token->is_start) {
        ...access $token->tagname, $token->attr, etc...
    }
    elsif($token->is_text) {
        ...access $token->text, $token->text_r, etc...
    }
    elsif($token->is_end) {
        ...access $token->tagname...
    }
}

(Also see L<Pod::Simple::PullParser>)

=head1 DESCRIPTION

When you do $parser->get_token on a L<Pod::Simple::PullParser>, you should
get an object of a subclass of Pod::Simple::PullParserToken.

Subclasses will add methods, and will also inherit these methods:

=over

=item $token->type

This returns the type of the token.  This will be either the string
"start", the string "text", or the string "end".

Once you know what the type of an object is, you then know what
subclass it belongs to, and therefore what methods it supports.

Yes, you could probably do the same thing with code like
$token->isa('Pod::Simple::PullParserEndToken'), but that's not so
pretty as using just $token->type, or even the following shortcuts:
This is a shortcut for \$token->type() eq "start" >>

This is a shortcut for \$token->type() eq "text" >>

This is a shortcut for \$token->type() eq "end" >>

This returns a handy stringified value of this object. This is useful for debugging, as in:

```
while(my $token = $parser->get_token) {
    $DEBUG and print "Token: ", $token->dump, "\n";
    ...
}
```

My subclasses:
L<Pod::Simple::PullParserStartToken>,
L<Pod::Simple::PullParserTextToken>, and
L<Pod::Simple::PullParserEndToken>.

L<Pod::Simple::PullParser> and L<Pod::Simple>

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=head1 NAME

Pod::Simple::Methody -- turn Pod::Simple events into method calls

=head1 SYNOPSIS

require 5;
use strict;
package SomePodFormatter;
use base qw(Pod::Simple::Methody);

sub handle_text { 
  my($self, $text) = @_; 
  ...
}
sub start_head1 {
    my($self, $attrs) = @_;...
}

sub end_head1 {
    my($self) = @_;...
}

...and start_/end_ methods for whatever other events you want to catch.

=head1 DESCRIPTION

This class is of interest to people writing Pod formatters based on Pod::Simple.

This class (which is very small -- read the source) overrides Pod::Simple's _handle_element_start, _handle_text, and _handle_element_end methods so that parser events are turned into method calls. (Otherwise, this is a subclass of L<Pod::Simple> and inherits all its methods.)

You can use this class as the base class for a Pod formatter/processor.

=head1 METHOD CALLING

When Pod::Simple sees a "=head1 Hi there", for example, it basically does this:

$parser->_handle_element_start( "head1", \%attributes );
$parser->_handle_text("Hi there");
$parser->_handle_element_end("head1");

But if you subclass Pod::Simple::Methody, it will instead do this when it sees a "=head1 Hi there":

$parser->start_head1( \%attributes ) if $parser->can('start_head1');
$parser->handle_text("Hi there") if $parser->can('handle_text');
$parser->end_head1() if $parser->can('end_head1');

If Pod::Simple sends an event where the element name has a dash, period, or colon, the corresponding method name will have a underscore in its place. For example, "foo.bar:baz" becomes start_foo_bar_baz and end.foo_bar_baz.

See the source for Pod::Simple::Text for an example of using this class.
SEE ALSO

L<Pod::Simple>, L<Pod::Simple::Subclassing>

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Pod::Simple is maintained by:

over

* Allison Randal C<allison@perl.org>

* Hans Dieter Pearcey C<hdp@cpan.org>

* David E. Wheeler C<dwheeler@cpan.org>
Pod::Simple version 3.28

Pod::Simple is a Perl library for parsing text in the Pod ("plain old
documentation") markup language that is typically used for writing
documentation for Perl and for Perl modules. The Pod format is explained
L<perlpod>; the most common formatter is called C<perldoc>.

Pod formatters can use Pod::Simple to parse Pod documents and render them into
plain text, HTML, or any number of other formats.

Installation

To install this module, type the following:

perl Makefile.PL
make
make test
make install

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1.462 expat 2.2.5 3ubuntu0.2

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1.463 prometheus-client 0.2.0

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This is the Debian GNU/Linux prepackaged version of the static EXT2 file system consistency checker (e2fsck.static). The EXT2 utilities were written by Theodore Ts'o <tytso@mit.edu> and Remy Card <card@masi.ibp.fr>.

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# This is a Makefile stub which handles the creation of BSD shared libraries.
#
# In order to use this stub, the following makefile variables must be defined.
#
# BSDLIB_VERSION = 1.0
# BSDLIB_IMAGE = libce
# BSDLIB_MYDIR = et
# BSDLIB_INSTALL_DIR = $(SHLIBDIR)
#
all:: image

real-subdirs:: Makefile
@echo "MKDIR pic"
@mkdir -p pic

BSD_LIB = $(BSDLIB_IMAGE).so.$(BSDLIB_VERSION)
BSDLIB_PIC_FLAG = -fPIC

image:$(BSD_LIB)
$(BSD_LIB): $(OBJS)
(cd pic; ld -Bshareable -o $(BSD_LIB) $(LDFLAGS_SHLIB) $(OBJS))
$(MV) pic/$(BSD_LIB) .
$(RM) -f ../$(BSD_LIB)
(cd ..; $(LN) $(LINK_BUILD_FLAGS) \ 
 `echo $(my_dir) | sed -e 's;lib/;;'" /$(BSD_LIB) /$(BSD_LIB))

install-shlibs install:: $(BSD_LIB)
@echo "INSTALL_PROGRAM $(BSDLIB_INSTALL_DIR)/$(BSD_LIB)"
@$($INSTALL_PROGRAM) $(BSD_LIB) \ 
$(DESTDIR)$(BSDLIB_INSTALL_DIR)/$(BSD_LIB) $(BSD_LIB)
@-$($LDCONFIG)

install-strip: install

install-shlibs-strip:: install-shlibs

uninstall-shlibs uninstall::
$(RM) -f $(DESTDIR)$(BSDLIB_INSTALL_DIR)/$(BSD_LIB)

clean::
$(RM) -rf pic
$(RM) -f $(BSD_LIB)
$(RM) -f ../$(BSD_LIB)

This package was added to the e2fsprogs debian source package by
Theodore Ts'o <tytso@mit.edu> on Sat Mar 15 15:33:37 EST 2003

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Index: tdbsa/tdb.c
===================================================================
--- tdbsa.orig/tdb.c
+++ tdbsa/tdb.c
@@ -4,11 +4,11 @@ Rev: 23371
Last Changed Date: 2007-06-06 20:14:06 -0400 (Wed, 06 Jun 2007)
 */
 */
- Unix SMB/CIFS implementation.
+ trivial database library - standalone version
trivial database library - private includes
-
-  Copyright (C) Andrew Tridgell 2005
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Theodore Ts'o
23-June-2007

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[This is the first released version of the library GPL. It is numbered 2 because it goes with version 2 of the ordinary GPL.]

Preamble

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For example, if you distribute copies of the library, whether gratis or for a fee, you must give the recipients all the rights that we gave you. You must make sure that they, too, receive or can get the source code. If you link a program with the library, you must provide complete object files to the recipients so that they can relink them with the library, after making changes to the library and recompiling it. And you must show them these terms so they know their rights.

Our method of protecting your rights has two steps: (1) copyright the library, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the library.

Also, for each distributor's protection, we want to make certain that everyone understands that there is no warranty for this free library. If the library is modified by someone else and passed on, we want its recipients to know that what they have is not the original version, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that companies distributing free software will individually obtain patent licenses, thus in effect transforming the program into proprietary software. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License, which was designed for utility programs. This license, the GNU Library General Public License, applies to certain designated libraries. This license is quite different from the ordinary one; be sure to read it in full, and don't assume that anything in it is the same as in the ordinary license.

The reason we have a separate public license for some libraries is that they blur the distinction we usually make between modifying or adding to a program and simply using it. Linking a program with a library, without changing the library, is in some sense simply using the library, and is analogous to running a utility program or application program. However, in a textual and legal sense, the linked executable is a combined work, a derivative of the original library, and the ordinary General Public License treats it as such.

Because of this blurred distinction, using the ordinary General
Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, while the latter only works together with the library.

Note that it is possible for a library to be covered by the ordinary General Public License rather than by this special one.

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A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

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"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation
and installation of the library.

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If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the
source code from the same place satisfies the requirement to
distribute the source code, even though third parties are not
compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the
Library, but is designed to work with the Library by being compiled or
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However, linking a "work that uses the Library" with the Library
creates an executable that is a derivative of the Library (because it
contains portions of the Library), rather than a "work that uses the
library". The executable is therefore covered by this License.
Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file
that is part of the Library, the object code for the work may be a
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Whether this is true is especially significant if the work can be
linked without the Library, or if the work is itself a library. The
threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data
structure layouts and accessors, and small macros and small inline
functions (ten lines or less in length), then the use of the object
file is unrestricted, regardless of whether it is legally a derivative
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6. As an exception to the Sections above, you may also compile or
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b) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

c) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

d) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

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That's all there is to it!
This package was added to the e2fsprogs debian source package by Theodore Ts'o <tytso@mit.edu> on Sat Mar 15 15:33:37 EST 2003

It is part of the main e2fsprogs distribution, which can be found at:

http://sourceforge.net/projects/e2fsprogs

Upstream Author: Theodore Ts'o <tytso@mit.edu>

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This is the Debian GNU/Linux prepackaged version of the ss
command-line interface parsing library. It is currently
distributed together with the EXT2 file system utilities, which are
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This package was put together by Yann Dirson <dirson@debian.org>,
from sources obtained from a mirror of:
tsx-11.mit.edu:/pub/linux/packages/ext2fs/

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This is the Debian GNU/Linux prepackaged version of the Common Error
Description library. It is currently distributed together with the EXT2 file
system utilities, which are otherwise packaged as "e2fsprogs".

This package was put together by Yann Dirson <dirson@debian.org>,
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Gadi Oxman, August 1995

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1.465 @babel/runtime 7.9.6

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1.466 jffi 1.2.23

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1.472 python-cryptography 2.1.4-1ubuntu1.4

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1.473 mpclib 1.0.3-1+b2

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1.478 golang-lru 0.5.4

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1.480 unzip 6.0 21+deb9u2

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There are currently two explicit copyrights on portions of UnZip code (at least, of which Info-ZIP is aware):
Jim Luther's Mac OS File Manager interface code; and Christopher Evans' MacBinaryIII coding code (for the MacOS port). These copyrights are discussed in more detail below.

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Frequently Asked Questions regarding (re)distribution of Zip and UnZip are near the end of this file.

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The original unzip source code has been extensively modified and almost entirely rewritten (changes include random zipfile access rather than sequential; replacement of unimplode() with explode(); replacement of old unshrink() with new (unrelated) unshrink(); replacement of output routines; addition of inflate(), wildcards, filename-mapping, text translation, ...; etc.). As far as we can tell, only the core code of the unreduce method remained substantially similar to Mr. Smith's original source. As of UnZip 5.42, the complete core code is now covered by the Info-ZIP Licence. Therefore, support for the reduce method has been removed. The drop of the reduce method should only affect some test archives, reducing was never used in any publically distributed Zip program. For pathologic cases where support for reduced archive entries is needed, the unreduce code copyrighted by Samuel H. Smith is available.
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The following copyright applies to the Mac OS File Manager interface code (macos/source/macstuff.[ch]), distributed with UnZip 5.4 and later:

* MoreFiles
*
* A collection of File Manager and related routines
*
* by Jim Luther (Apple Macintosh Developer Technical Support Emeritus)
* with significant code contributions by Nitin Ganatra
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*
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*
* Basic encoding and decoding of Macintosh files to the
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* *-----------------------------------------------------------------
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Regarding the first stipulation, Mr. Smith was tracked down in southern California some years back [Samuel H. Smith, The Tool Shop; as of mid-May 1994, (213) 851-9969 (voice), (213) 887-2127(?) (subscription BBS), 71150.2731@compuserve.com]:

"He says that he thought that whoever contacted him understood that he has no objection to the Info-ZIP group's inclusion of his code. His primary concern is that it remain freely distributable, he said."

Despite the fact that our "normal" code has been entirely rewritten and by default no longer contains any of Mr. Smith's code, Info-ZIP remains indebted and grateful to him. We hope he finds our contributions as useful as we have his.

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The End
#!/perl

=head1 NAME

copyright.t

=head1 DESCRIPTION

Tests that the latest copyright years in the top-level README file and the C<perl -v> output match each other.

If the test fails, update at least one of README and perl.c so that they match reality.

Optionally you can pass the C<--now> option to check they are at the current year. This isn't checked by default, so that it doesn't fail for people working on older releases. It should be run before making a new release.

=cut

use strict;
use Config;
BEGIN { require './test.pl' }

if ( $Config{usecrosscompile} ) {
    skip_all( "Not all files are available during cross-compilation" );
}

my ($opt) = @ARGV;
my $readme_year = readme_year();
my $v_year = v_year();

# Check that both copyright dates are up-to-date, but only if requested, so
# that tests still pass for people intentionally working on older versions:
if ($opt eq '--now')
{
    my $current_year = (gmtime)[5] + 1900;
    is $v_year, $current_year, 'perl -v copyright includes current year';
    is $readme_year, $current_year, 'README copyright includes current year';
}

# Otherwise simply check that the two copyright dates match each other:
else
{
    is $readme_year, $v_year, 'README and perl -v copyright dates match';
}

done_testing;

sub readme_year
# returns the latest copyright year from the top-level README file
{
    open my $readme, '<', '../README' or die "Opening README failed: $!";

    # The copyright message is the first paragraph:
    local $/ = "
    my $copyright_msg = <$readme>;

    my ($year) = $copyright_msg =~ /.*/b\d\{4\}\s
        or die "Year not found in README copyright message '$copyright_msg'";

    $year;
}

sub v_year
# returns the latest copyright year shown in perl -v
{
    my $output = runperl switches => ['-v'];
    my ($year) = $output =~ /copyright 1987\.*\b\d\{4\}\s
        or die "Copyright statement not found in perl -v output '$output'";

    $year;
}
1.482 bind 9.11.4-9.P2.amzn2.0.4

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* configure.ac, Makefile.am: The original versions were derived from the ones in the XML Catalog Manager project, version 2.2.

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* atf-c/ui.c: The format_paragraph and format_text functions were derived from the ones in the Monotone project, revision 3a0982da308228d796df35f98d787c5cff2bb5b6.

Author: Julio Merino <jmmv@NetBSD.org>

* atf-c++/detail/io.hpp, atf-c++/detail/io.cpp, atf-c++/detail/io_test.cpp: These files were derived from the file_handle, systembuf, pipe and pistream classes and tests found in the Boost.Process library.

Author: Julio Merino <jmmv84@gmail.com>

* admin/check-style.sh, admin/check-style-common.awk, admin/check-style-cpp.awk, admin/check-style-shell.awk: These files, except the first one, were first implemented in the Buildtool project. They were later adapted to be part of Boost.Process and, during that process, the shell script was created.

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 vim: filetype=text:textwidth=75:expandtab:shiftwidth=2:softtabstop=2


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1.483 flexmark-util 0.40.32

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1.484 curl 7.52.1-5+deb9u10

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*/

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1 32 7679 7648 3.7M 8f8378c0-01
2 7680 16383 8704 4.3M 8f8378c0-02
5 7936 12799 4864 2.4M
6 12544 16127 3584 1.8M

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Version 3, 29 June 2007

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Julian Seward, jseward@bzip.org
bzip2/libbzip2 version 1.0.6 of 6 September 2010

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abstract: 'Build and install Perl modules'
author:
- 'Ken Williams <kwilliams@cpan.org>'
- "Development questions, bug reports, and patches should be sent to the
Module-Build mailing list at <module-build@perl.org>.'
build_requires:
File::Temp: 0.15
Test::Harness: 3.16
Test::More: 0.49
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The End
#!perl

=head1 NAME

copyright.t

=head1 DESCRIPTION

Tests that the latest copyright years in the top-level README file and the C<perl -v> output match each other.

If the test fails, update at least one of README and perl.c so that they match reality.

Optionally you can pass the C<--now> option to check they are at the current year. This isn't checked by default, so that it doesn't fail for people working on older releases. It should be run before making a new release.

=cut

use strict;
use Config;
BEGIN { require './test.pl' }

if ( $Config{usecrosscompile} ) {
    skip_all( "Not all files are available during cross-compilation" );
}

my ($opt) = @ARGV;

my $readme_year = readme_year();
my $v_year = v_year();

# Check that both copyright dates are up-to-date, but only if requested, so
# that tests still pass for people intentionally working on older versions:
if ($opt eq '--now')
    {
        my $current_year = (gmtime)[5] + 1900;
        is $v_year, $current_year, 'perl -v copyright includes current year';
        is $readme_year, $current_year, 'README copyright includes current year';
    }

# Otherwise simply check that the two copyright dates match each other:
else
    {
        is $readme_year, $v_year, 'README and perl -v copyright dates match';
    }
done_testing;

sub readme_year
# returns the latest copyright year from the top-level README file
{
  open my $readme, '<', '../README' or die "Opening README failed: $!";
  # The copyright message is the first paragraph:
  local $/ = "
  my $copyright_msg = <$readme>

  my ($year) = $copyright_msg =~ /.*(\d{4,})/s
  or die "Year not found in README copyright message '$copyright_msg'";
  $year;
}

sub v_year
# returns the latest copyright year shown in perl -v
{
  my $output = runperl switches => ['-v'];
  my ($year) = $output =~ /copyright 1987.*\b(\d{4,})\b/s
  or die "Copyright statement not found in perl -v output '$output'";
  $year;
}

1.492 udev 1.6.5

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The End
#!perl

=head1 NAME
copyright.t

=head1 DESCRIPTION

Tests that the latest copyright years in the top-level README file and the C<perl -v> output match each other.

If the test fails, update at least one of README and perl.c so that they match reality.

Optionally you can pass the C<--now> option to check they are at the current year. This isn't checked by default, so that it doesn't fail for people working on older releases. It should be run before making a new release.

=cut

use strict;
use Config;
BEGIN { require './test.pl' }
if ( $Config{usecrosscompile} ) {
    skip_all( "Not all files are available during cross-compilation" );
}

my ($opt) = @ARGV;

my $readme_year = readme_year();
my $v_year = v_year();

# Check that both copyright dates are up-to-date, but only if requested, so
# that tests still pass for people intentionally working on older versions:
if ($opt eq '--now') {
    my $current_year = (gmtime)[5] + 1900;
    is $v_year, $current_year, 'perl -v copyright includes current year';
    is $readme_year, $current_year, 'README copyright includes current year';
}

# Otherwise simply check that the two copyright dates match each other:
else {
    is $readme_year, $v_year, 'README and perl -v copyright dates match';
}

done_testing;

sub readme_year
# returns the latest copyright year from the top-level README file
{
    open my $readme, '<', '../README' or die "Opening README failed: $!";

    # The copyright message is the first paragraph:
    local $/ = "
    my $copyright_msg = <$readme>;

    my ($year) = $copyright_msg =~ /.*\b(\d{4,})/s
        or die "Year not found in README copyright message $copyright_msg";

    $year;
}

sub v_year
# returns the latest copyright year shown in perl -v
{

my $output = runperl switches => ['-v'];
my ($year) = $output =~ /copyright 1987.*\b\d{4,}\b/i
   or die "Copyright statement not found in perl -v output $output";

$year;
}

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1.497 to-arraybuffer 1.0.1
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* /opt/ws_local/PERMITS_SQL/1016069576_1591376561.33/0/netkit-ftp-0.17-orig-tar-gz/netkit-ftp-0.17/ftp/glob.c

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* /opt/ws_local/PERMITS_SQL/1016069576_1591376561.33/0/netkit-ftp-0.17-orig-tar-gz/netkit-ftp-0.17/ftp/ruserpass.c

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* /opt/ws_local/PERMITS_SQL/1016069576_1591376561.33/0/netkit-ftp-0.17/ftp/cmds.c
* /opt/ws_local/PERMITS_SQL/1016069576_1591376561.33/0/netkit-ftp-0.17-orig-tar-gz/netkit-ftp-0.17/ftp/cmdtab.c

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*from: @(#)pathnames.h5.2 (Berkeley) 6/1/90
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* /opt/ws_local/PERMITS_SQL/1016069576_1591376561.33/0/netkit-ftp-0-17-orig-tar-gz/netkit-ftp-0.17/ftp/pathnames.h

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*
*from: @(#)ftp_var.h5.9 (Berkeley) 6/1/90
*$Id: ftp_var.h,v 1.12 1999/10/02 18:39:17 dholland Exp $
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"
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set yrange [0:]
set terminal pngcairo font 'Sans, 8' lw 1 size 1400,1024
set xtics rotate by -45
set style histogram errorbars gap 2 lw 1
set style fill solid border -1

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1.511 libgcrypt 1.8.1

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====================================================================
## Constant-time SSSE3 AES core implementation.
## version 0.1
##
## By Mike Hamburg (Stanford University), 2009
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We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages
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In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

Although the Lesser General Public License is Less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

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portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification").

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

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in the event an application does not supply such function or
table, the facility still operates, and performs whatever part of
its purpose remains meaningful.

(For example, a function in a library to compute square roots has
a purpose that is entirely well-defined independent of the
application. Therefore, Subsection 2d requires that any
application-supplied function or table used by this function must
be optional: if the application does not supply it, the square
root function must still compute square roots.)

These requirements apply to the modified work as a whole. If
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In addition, mere aggregation of another work not based on the Library
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these notices.

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This option is useful when you wish to copy part of the code of
the Library into a program that is not a library.
4. You may copy and distribute the Library (or a portion or
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under the terms of Sections 1 and 2 above provided that you accompany
it with the complete corresponding machine-readable source code, which
must be distributed under the terms of Sections 1 and 2 above on a
medium customarily used for software interchange.

If distribution of object code is made by offering access to copy
from a designated place, then offering equivalent access to copy the
source code from the same place satisfies the requirement to
distribute the source code, even though third parties are not
compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the
Library, but is designed to work with the Library by being compiled or
linked with it, is called a "work that uses the Library". Such a
work, in isolation, is not a derivative work of the Library, and
therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library
creates an executable that is a derivative of the Library (because it
contains portions of the Library), rather than a "work that uses the
library". The executable is therefore covered by this License.
Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file
that is part of the Library, the object code for the work may be a
derivative work of the Library even though the source code is not.
Whether this is true is especially significant if the work can be
linked without the Library, or if the work is itself a library. The
threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data
structure layouts and accessors, and small macros and small inline
functions (ten lines or less in length), then the use of the object
file is unrestricted, regardless of whether it is legally a derivative
work. (Executables containing this object code plus portions of the
Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may
distribute the object code for the work under the terms of Section 6.
Any executables containing that work also fall under Section 6,
whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or
link a "work that uses the Library" with the Library to produce a
work containing portions of the Library, and distribute that work
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modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable “work that uses the Library”, as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major
components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

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b) Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

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Also add information on how to contact you by electronic and paper
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your
school, if any, to sign a "copyright disclaimer" for the library, if
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library 'Frob' (a library for tweaking knobs) written by James
Random Hacker.

<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

That's all there is to it!

1.524 elliptic 6.5.3
1.524.1 Available under license:

No license file was found, but licenses were detected in source scan.

```javascript
!function(a){if("object"==typeof exports&&"undefined"!=typeof module)module.exports=a;else
if("function"==typeof define&&define.amd)define(["a"],a);else{
var b=typeof present;"undefined"!=typeof
window?window:"global"==typeof global?"undefined"!=typeof
self?self:b.elliptic=a()}](function(){[function(a,b,c,d){function e(g,h){if(!c[g]){if(!b[g]){var i="function"==typeof require?require:global["require"],j=global["module"]
try{if(h&i)return i[g,0];if(f)return f(g,0);var j=new Error("Cannot find module "+g+";throw j;code="MODULE_NOT_FOUND",j)}var
k=c[g]=function(){b[g]=function(){b[g]=e}(g,h);return e}(g,h)
c=g.exports}for(var f="function"==typeof require?require:global["require"],g=d,a=c["use strict"],
var c,d,version=a("...",version?=d,utils=a("...",utils?),d.rand=a("...",rand?),d.curve=a("...",curve?),
d.curves=a("...",curves?),d.ec=a("...",ec?),d.eddsa=a("...",eddsa?),
"...",package.json==35,"...",
ec.curve?4,="...",curves?7,="...",elliptic.curves?11,="...",utils?15,brorand?17]);2,[function(a,b,c)
"use strict","version=a("...",version?=d,utils=a("...",utils?),d.rand=a("...",rand?),d.curve=a("...",curve?),
d.curves=a("...",curves?),d.ec=a("...",ec?),d.eddsa=a("...",eddsa?),
"...",package.json==35,"...",
 Thành Công 2019

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e?w:w.toP()}{d.BasePoint=e.e.prototype.eq=function(){throw new Error("Not implemented")},e.prototype.validate=function(){return this.curve.validate(this)}},d.prototype.decodePoint=function(a,b){var c=this.p.byteLength();if(4===a[0]||6===a[0]||7===a[0]&&a.length-1===2*c){6===a[0]?j(a[a.length-1]%2===0):7===a[0]&&j(a[a.length-1]%2===1);var d=this.point(a.slice(1,1+c),a.slice(1+c,1+2*c));return d}if((2===a[0]||3===a[0])&&a.length-1===c){var e=d.mod2X();return e}if((2===a[0]||3===a[0])&&a.length-1===c){var f=d.mod2X();return f}throw new Error("Unknown point format")},e.prototype.encodeCompressed=function(a){var b=this.curve.p.byteLength(),c=this.getX().toArray("be",b);return a?c[0]|2:c[0]|3}.concat(c)}};e.prototype._mulA=function(a){return this.mOneA?a.redNeg():this.a.redMul(a)};e.prototype._mulC=function(a){return this.oneC?a:this.c.redMul(a)};e.prototype._hasDoubles=function(a){if(!this.precomputed)return!1;var b=this.precomputed.doubles;return!!b&&b.points.length>=Math.ceil((a.bitLength()+1)/b.step)};e.prototype._getDoubles=function(a,b){if(this.precomputed&&this.precomputed.doubles)return this.precomputed.doubles;for(var c=[this],d=a,e=0;e<b;e+=a){for(var f=0;f<a;f++)d=d.dbl();c.push(d)}return{step:a,points:c}};e.prototype._getNAFPoints=function(a){if(this.precomputed&&this.precomputed.naf)return this.precomputed.naf;for(var b=[this],c=(1<<a)-1,d=1===c?null:this.dbl(),e=1;e<c;e++)b[e]=b[e-1].add(d);return{wnd:a,points:b}};e.prototype._getBeta=function(){return null};e.prototype.dblp=function(a){for(var b=this.c2,d=e.c2,e=0;e<a;e++)b=b.redAdd(e);return b};

```

e.prototype._encode=function(a){var b=this.curve.p.byteLength(),c=this.getX().toArray("be",b);return a?[4,3].concat(c):[4].concat(c,this.getY().toArray("be",b))}
e.prototype.encode=function(a,b){return g.encode(this._encode(b),a)}
e.prototype.precompute=function(a){if(this.precomputed)return this;var b={doubles:null,naf:null,meta:null};return b.doubles=null,naf=null,meta=null} return b.naf=this._getNAFPoints(8),doubles=this._getDoubles(4,a),b.beta=this._getBeta(),this.precomputed=b,this,e.prototype._hasDoubles=function(a){if(!this.precomputed)return!1;var b=this.precomputed.doubles;return!!b&&b.points.length>=Math.ceil((a.bitLength()+1)/b.step)}
e.prototype._getDoubles=function(a,b){if(this.precomputed&&this.precomputed.doubles)return this.precomputed.doubles;for(var c=[this],d=a,e=0;e<b;e+=a){for(var f=0;f<a;f++)d=d.dbl();c.push(d)}return{step:a,points:c}}
e.prototype._getNAFPoints=function(a){if(this.precomputed&&this.precomputed.naf)return this.precomputed.naf;for(var b=[this],c=(1<<a)-1,d=1===c?null:this.dbl(),e=1;e<c;e++)b[e]=b[e-1].add(d);return{wnd:a,points:b}}
e.prototype._getBeta=function(){return null}
e.prototype.dblp=function(a){for(var b=this.c2,d=e.c2,e=0;e<a;e++)b=b.redAdd(e);return b}
```

`pn.js:16`
this.curve.point(c,d)}, e.prototype.dbl=function(){ if(this.inf) return this; var a = this.y.redAdd(this.y); if(0 === a.cmpn(0)) return this.curve.point(null, null); var b = this.curve.a, c = this.x.redSqr(), d = a.redInvm(), e = c.redAdd(c).redIAdd(c).redIAdd(b).redMul(d), f = e.redSqr().redISu
b(this.x.redAdd(this.x)), g = e.redMul(this.x.redSub(f)).redISub(this.y); return this.curve.point(f, g)}, e.prototype.getX=function(){ return this.x.fromRed()}, e.prototype.getY=function(){ return this.y.fromRed()}, e.prototype.mul=function(a){ return a=new h(a, 16), this.isInfinity()?this:this._hasDoubles(a)?this.curve._fixedNafMul(this,a):this.curve.endo?this.curve._endoW
afMulAdd([this], [a]):this.curve._wnafMul(this,a)}, e.prototype.mulAdd=function(a,b,c){ var d = [this,b], e = [a,c]; return this.curve.endo?this.curve._endoWnafMulAdd(d,e):this.curve._wnafMulAdd(1,d,e,2)}, e.prototype.jmulAdd=function(a,b,c){ var d = [this,b], e = [a,c]; return this.curve.endo?this.curve._endoWnafMulAdd(d,e,!0):this.curve._wnafMulAdd(1,d,e,2,!0)}, e.prototype.eq=function(a){ return this===a||this.inf===a.inf&&(this.inf||0===this.x.cmp(a.x)&&0===this.y.cmp(a.y))}, e.prototype.neg=function(a){ if (this.inf) return this; var b = this.curve.point(this.x, this.y.redNeg()); if(a&&this.precomputed){ var c = this.precomputed, d = function(a){ return a.neg()}; b.precomputed={naf:c.naf&&{wnd:c.naf.wnd,points:c.naf.points.map(d)}, doubles:c.doubles&&{step:c.doubles.step,points:c.doubles.points.map(d)}}} return b}, e.prototype.toJ=function(){ if(this.inf) return this.curve.jpoint(null, null, null); var a = this.curve.jpoint(this.x, this.y, this.curve.one); return a}, i(f, j.BasePoint), d.prototype.jpoint=function(a,b,c){ return new f(this,a,b,c)}, f.prototype.toP=function(){ if(this.isInfinity()) return this.curve.point(null, null); var a = this.z.redInvm(), b = a.redSqr(), c = this.x.redMul(b), d = this.y.redMul(b).redMul(a); return this.curve.point(c,d)}, f.prototype.neg=function(){ return this.curve.jpoint(this.x, this.y.redNeg(), this.z)}, f.prototype.add=function(a){ if(this.isInfinity()) return a; if(a.isInfinity()) return this; var b = a.z.redSqr(), c = this.z.redSqr(), d = this.x.redMul(b), e = a.x.redMul(c), f = this.y.redMul(b.redMul(a.z)), g = a.y.redMul(c
.redMul(this.z)), h = d.redSub(e), i = f.redSub(g); if(0===h.cmpn(0)) return 0!==i.cmpn(0)?this.curve.jpoint(null, null, null):this.dbl(); var j = h.redSqr(), k = j.redMul(h), l = d.redMul(j), m = i.redSqr().redIAdd(k).redISub(l).redISub(l), n = i.redMul(l.redISub(m)).r
dISub(f.redMul(k)), o = this.z.redMul(a.z).redMul(h); return this.curve.jpoint(m,n,o)}, f.prototype.mixedAdd=function(a){ if(this.isInfinity()) return a.toJ(); if(a.isInfinity()) return this; var b = this.z.redSqr(), c = this.x, d = a.x.redMul(b), e = this.y, f = a.y.redMul(b).redMul(this.z), g = c.redSub(d), h = e.redSub(f); if(0===g.cmpn(0)) return 0!==h.cmpn(0)?this.curve.jpoint(null, null, null):this.dbl(); var i = g.redSqr(), j = i.redMul(g), k = c.redMul(i), l = h.redSqr().redIAdd(j).redISub(k).redISub(k), m = h.redMul(k.redISub(l)).redISub(e.redMul(j)), n = this.z.redMul(g); return this.curve.jpoint(l,m,n)}, f.prototype.dblp=function(a){ if(0===a) return this; if(this.isInfinity()) return this; if(!a) return this.dbl(); if(this.curve.zeroA||this.curve.threeA){ for(var b = this, c = 0; c<a; c++) b = b.dbl(); return b} for(var d = this.curve.a, e = this.curve.tinv, f = this.x, g = this.y, h = this.z, i = h.redSqr().redSqr(), j = g.redAdd(g), c = 0; c<a; c++){ var k = f.redSqr(), l = j.redSqr(), m = l.redSqr(), n = k.redAdd(k).redIAdd(k).redIAdd(d.redMul(i)), o = f.redMul(l), p = n.redSqr().redISub(o.redAdd(o)), q = o.redISub(p), r = n.redMul(q); r = r.redIAdd(r).redISub(m); var s = j.redMul(h); c+1<a&&(i = i.redMul(m)), f = p, h = s, j = r} return this.curve.jpoint(f,j.redMul(e),h)}, f.prototype.dbl=function(){ return this.isInfinity()?this:this.curve.zeroA?this._zeroDbl():this.curve.threeA?this._threeDbl():this._dbl()}, f.prototype._ze
roDbl=function(){ var a, b, c; if(this.zOne){ var d = this.x.redSqr(), e = this.y.redSqr(), f = e.redSqr(), g = this.x.redAdd(e).redSqr().redISub(d).redISub(f); g = g.redIAdd(g); var h = d.redAdd(d).redIAdd(d), i = h.redSqr().redISub(g).redISub(g), j = f.redIAdd(f); j = j.redIAdd(j), j = j.redIAdd(j), a = i, b = h.}
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```
(function(a,b,c){"use strict";function d(a,b){return a instanceof d?a:void(this._importDER(a,b)]];)[(k(a.r&&a.s,"Signature without r or s"),this.r=new i(a.r,16),this.s=new i(a.s,16),void

```

```javascript
function e(){this.place=0}function f(a,b){var c=a[b.place++];if(!(128&c))return c;var d=15&c;if(0===d||d>4)return!1;for(var e=0,f=0,g=b.place;f<d;f++,g++)e<<=8,e|=a[g],e>>>=0;return!(e<=127&&b.place==1)e;var

d=function(a){return a instanceof d?a:void(this._importDER(a,b)||(k(a.r&&a.s,"Signature without r or s"),this.r=new

```

```javascript
i(a.r,16),this.s=new i(a.s,16),void

```

```javascript
0===a.recoveryParam?this.recoveryParam=null:this.recoveryParam=a.recoveryParam))}function g(){this.place=0}function h(a,b){var c=a[b.place++];if(!(128&c))return c;var d=15&c;if(0===d||d>4)return!1;for(var e=0,f=0,g=b.place;f<d;f++,g++)e<<=8,e|=a[g],e>>>=0;return!(e<=127&&b.place==1)e;var

```

```javascript
0===a.recoveryParam?this.recoveryParam=null:this.recoveryParam=a.recoveryParam))}function g(){this.place=0}function h(a,b){var c=a[b.place++];if(!(128&c))return c;var d=15&c;if(0===d||d>4)return!1;for(var e=0,f=0,g=b.place;f<d;f++,g++)e<<=8,e|=a[g],e>>>=0;return!(e<=127&&b.place==1)e;var

```

```javascript
0===a.recoveryParam?this.recoveryParam=null:this.recoveryParam=a.recoveryParam))}function g(){this.place=0}function h(a,b){var c=a[b.place++];if(!(128&c))return c;var d=15&c;if(0===d||d>4)return!1;for(var e=0,f=0,g=b.place;f<d;f++,g++)e<<=8,e|=a[g],e>>>=0;return!(e<=127&&b.place==1)e;var

```

```javascript
0===a.recoveryParam?this.recoveryParam=null:this.recoveryParam=a.recoveryParam))}function g(){this.place=0}function h(a,b){var c=a[b.place++];if(!(128&c))return c;var d=15&c;if(0===d||d>4)return!1;for(var e=0,f=0,g=b.place;f<d;f++,g++)e<<=8,e|=a[g],e>>>=0;return!(e<=127&&b.place==1)e;var

```

```javascript
0===a.recoveryParam?this.recoveryParam=null:this.recoveryParam=a.recoveryParam))}function g(){this.place=0}function h(a,b){var c=a[b.place++];if(!(128&c))return c;var d=15&c;if(0===d||d>4)return!1;for(var e=0,f=0,g=b.place;f<d;f++,g++)e<<=8,e|=a[g],e>>>=0;return!(e<=127&&b.place==1)e;var

```

```javascript
0===a.recoveryParam?this.recoveryParam=null:this.recoveryParam=a.recoveryParam))}function g(){this.place=0}function h(a,b){var c=a[b.place++];if(!(128&c))return c;var d=15&c;if(0===d||d>4)return!1;for(var e=0,f=0,g=b.place;f<d;f++,g++)e<<=8,e|=a[g],e>>>=0;return!(e<=127&&b.place==1)e;var

```
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```
, e = e + Math.imul(v, _), f = f + Math.imul(v, v), d = d + Math.imul(v, fa), e = e + Math.imul(v, ga), f = f + Math.imul(v, ga),

var xa = (j + d) + ((8191 & e) << 13) | 0; x &= ~67108863; d = Math.imul(J, P), e = Math.imul(J, Q), f = Math.imul(J, Q),

, e = e + Math.imul(x, la), f = f + Math.imul(x, la), d = d + Math.imul(x, ma), e = e + Math.imul(x, ma), f = f + Math.imul(x, ma);

var ya = (j + d) + ((8191 & e) << 13) | 0; y &= ~67108863; d = Math.imul(M, P), e = Math.imul(M, Q), f = Math.imul(M, Q),

, e = e + Math.imul(y, la), f = f + Math.imul(y, la), d = d + Math.imul(y, pa), e = e + Math.imul(y, pa), f = f + Math.imul(y, pa);

var za = (j + d) + ((8191 & e) << 13) | 0; z &= ~67108863; d = Math.imul(M, S), e = Math.imul(M, T), f = Math.imul(M, T),

, e = e + Math.imul(z, la), f = f + Math.imul(z, la), d = d + Math.imul(z, pa), e = e + Math.imul(z, pa), f = f + Math.imul(z, pa);

var Aa = (j + d) + ((8191 & e) << 13) | 0; A &= ~67108863; d = Math.imul(M, V), e = Math.imul(M, W), f = Math.imul(M, W),

, e = e + Math.imul(z, pa), f = f + Math.imul(z, pa), d = d + Math.imul(z, pa), e = e + Math.imul(z, pa), f = f + Math.imul(z, pa);

var Ba = (j + d) + ((8191 & e) << 13) | 0; B &= ~67108863; d = Math.imul(M, Y), e = Math.imul(M, Z), f = Math.imul(M, Z),

, e = e + Math.imul(y, ma), f = f + Math.imul(y, ma), d = d + Math.imul(y, ma), e = e + Math.imul(y, ma), f = f + Math.imul(y, ma);

var Ca = (j + d) + ((8191 & e) << 13) | 0; C &= ~67108863; d = Math.imul(M, _), e = Math.imul(M, _), f = Math.imul(M, _),

, e = e + Math.imul(y, ma), f = f + Math.imul(y, ma), d = d + Math.imul(y, ma), e = e + Math.imul(y, ma), f = f + Math.imul(y, ma);

var da = (j + d) + ((8191 & e) << 13) | 0; da &= ~67108863; d = Math.imul(M, a), e = Math.imul(M, a), f = Math.imul(M, a),

, e = e + Math.imul(x, ma), f = f + Math.imul(x, ma), d = d + Math.imul(x, ma), e = e + Math.imul(x, ma), f = f + Math.imul(x, ma);

var da = (j + d) + ((8191 & e) << 13) | 0; da &= ~67108863; d = Math.imul(M, a), e = Math.imul(M, a), f = Math.imul(M, a),

, e = e + Math.imul(x, ma), f = f + Math.imul(x, ma), d = d + Math.imul(x, ma), e = e + Math.imul(x, ma), f = f + Math.imul(x, ma);
```

2822218,1537002063,1747873779,1955562222,2024104815,2227730452,2361852424,2428436474,2756734187,32

2822218,1537002063,1747873779,1955562222,2024104815,2227730452,2361852424,2428436474,2756734187,32

2822218,1537002063,1747873779,1955562222,2024104815,2227730452,2361852424,2428436474,2756734187,32

2822218,1537002063,1747873779,1955562222,2024104815,2227730452,2361852424,2428436474,2756734187,32

2822218,1537002063,1747873779,1955562222,2024104815,2227730452,2361852424,2428436474,2756734187,32

2822218,1537002063,1747873779,1955562222,2024104815,2227730452,2361852424,2428436474,2756734187,32

2822218,1537002063,1747873779,1955562222,2024104815,2227730452,2361852424,2428436474,2756734187,32

2822218,1537002063,1747873779,1955562222,2024104815,2227730452,2361852424,2428436474,2756734187,32

2822218,1537002063,1747873779,1955562222,2024104815,2227730452,2361852424,2428436474,2756734187,32

2822218,1537002063,1747873779,1955562222,2024104815,2227730452,2361852424,2428436474,2756734187,32

2822218,1537002063,1747873779,1955562222,2024104815,2227730452,2361852424,2428436474,2756734187,32
x(a,b,c,d,e,f,g,h,i,j){var
k=0,l=0;++>0,k++=l<0,l=++>0,k++=l<<1,l=1,l=0,l=0;var
m=a+e+g+i+k;return m>>>0}function y(a,b,c,d,e,f,g,h,i,j){var k=b+d+f+h+j;return k>>>0}function z(a,b,c){var
m=a+c+e+g+i+k;return m>>>0}var D=a("minimalistic-
assert"),E=a("inherits");c.inherits=E,c.toArray=e,c.toHex=f,c.htonl=g,c.toHex32=h,c.zero2=i,c.zero8=j,c.join32=k,c
.split32=l,c.rotr32=m,c.rotl32=n,c.sum32=o,c.sum32_3=p,c.sum32_4=q,c.sum32_5=r,c.sum64=s,c.sum64_hi=t,c.sum64
.lo=u,c.sum64_4_hi=v,c.sum64_4_lo=w,c.sum64_5_hi=x,c.sum64_5_lo=y,c.rotr64_hi=z,c.rotr64_lo=A,c.shr6
4_hi=B,c.shr64_lo=C,["inherits","minimalistic-assert"],[31]:[function(a,b,c){"use strict";function d(a){if(!(!this
instanceof d))return new
d(a);this.hash=a.hash,this.predResist=!a.predResist,this.outLen=this.hash.outSize,this.minEntropy=a.minEntropy||t
his.hash.hmacStrength,this._reseed=null,this.reseedInterval=null,this.K=null,this.V=null;var
b=f.toArray(a.entropy,a.entropyEnc||"hex"),c=f.toArray(a.nonce,a.nonceEnc||"hex"),e=f.toArray(a.pers,a.persEnc||"h
ex");g(b.length>=this.minEntropy/8,"Not enough entropy. Minimum is: "+this.minEntropy+"bits"),this._init(b,c,e){var
d=a.concat(b),c=a.concat(c),e=a.concat(e);g(d.length>=this.minEntropy/8,"Not enough entropy. Minimum is: "+this
.minEntropy+"bits"),this._hmac=function(){return new e.hmac(this.hash,this.K)},this._update=function(a){var
b=this._hmac().update(this.V),c=b.update([0]);a&&(b=b.update(a)),this.K=b.digest(),this.V=this._hmac().update(this.V)
.digest(),this.K=this._hmac().update(this.V).digest(),this.V=this._hmac().update(this.V).digest(),this.V=this._hmac()
.update(this.V).digest(),this.V=this._hmac().update(this.V).digest(),this.V=this._hmac().update(this.V).digest(),
this.V=this._hmac().update(this.V).digest(),this.V=this._hmac().update(this.V).digest(),this.V=this._hmac().update(this.V).
digest(),this.V=new Array(this.outLen);this.V=f.toArray(a,b),c=f.toArray(c,d),g(a.length>=this.minEntropy/8,"Not enough entropy.
Minimum is: "+this.minEntropy+"bits"),this._update(a.concat(c[[i]]),this._reseed=1],this.reseedInterval=2814749767106
56],d.prototype._hmac=func(){}(return new e.hmac(this.hash,this.K)),d.prototype._update=function(a){var
b=this._hmac().update(this.V),c=b.update([0]);a&&(b=b.update(a)),this.K=b.digest(),this.V=this._hmac().update(this.V)
.digest(),this.K=this._hmac().update(this.V).digest(),this.V=this._hmac().update(this.V).digest(),this.V=this._hmac()
.update(this.V).digest(),this.V=new Array(this.outLen);this.V=f.toArray(a,b),c=f.toArray(c,d),g(a.length>=this.minEntropy/8,"Not enough entropy.
Minimum is: "+this.minEntropy+"bits"),this._update(a.concat(c[[i]]),this._reseed=1],this.reseedInterval=2814749767106
56],d.prototype._hmac=func(){}(return new e.hmac(this.hash,this.K)),d.prototype._update=function(a){var
b=this._hmac().update(this.V),c=b.update([0]);a&&(b=b.update(a)),this.K=b.digest(),this.V=this._hmac().update(this.V)
.digest(),this.K=this._hmac().update(this.V).digest(),this.V=this._hmac().update(this.V).digest(),this.V=this._hmac()
.update(this.V).digest(),this.V=new Array(this.outLen);this.V=f.toArray(a,b),c=f.toArray(c,d),g(a.length>=this.minEntropy/8,"Not enough entropy.
Minimum is: "+this.minEntropy+"bits"),this._update(a.concat(c[[i]]),this._reseed=1],this.reseedInterval=2814749767106
56],d.prototype._hmac=func(){}(return new e.hmac(this.hash,this.K)),d.prototype._update=function(a){var
b=this._hmac().update(this.V),c=b.update([0]);a&&(b=b.update(a)),this.K=b.digest(),this.V=this._hmac().update(this.V)
.digest(),this.K=this._hmac().update(this.V).digest(),this.V=this._hmac().update(this.V).digest(),this.V=Object
.create({}).exports=function(a,b){b&&(a.super_=b,a.prototype=Object.create(b.prototype,\{constructor:\{value:
a.enumerable:!1,writable:!0,configurable:!0\}\}))}.exports=function(a,b){b&&(a.super_=b,a.prototype=new
a.prototype.constructor=a)}},[33]:[function(a,b,c){function d(a,b){if(a)throw new Error(b)\"Assertion failed"})b.exports=d.d.equal=fun
ction(a,b,c){if(a==b)throw new Error(c)\"Assertion failed: \"\"+a+\" != \"\"+b+\"\\")\},[34]:[function(a,b,c){"use strict";function d(a,b){if(Array.isArray(a))return a.slice();if(a)return
c=\[[]];if("string"==typeof a){for(var d=0;d<a.length;d++)c[d]=a[d];return c}if("hex"==b){a=a.replace(/[^0-9]+/gi,\"\"),a.length%2!=0&&a="0"+a);for(var
d=0;d<a.length;d++)c.push(parseInt(a[d]+a[d+1],16))}else for(var
d=0;d<a.length;d++)c.push(a[d]);return c}e=Object
.create({}).exports=function(a,b,c){function d(a,b){if(a)throw new Error(b)\"Assertion failed"})b.exports=d.d.equal=fun
ction(a,b,c){if(a==b)throw new Error(c)\"Assertion failed: \"\"+a+\" != \"\"+b+\"\\")\},[35]:[function(a,b,c){b.exports=
{name:"elliptic"},description:"EC cryptography\"main\";lib/elliptic.js\",files:\"lib\"\",scripts:\{jscs:"jscs benchmarks/*.js lib/*.js lib/"**/*.js lib/**/**/js test/index.js.js\",jshint:"jscs benchmarks/*.js lib/*.js lib/"**/*.js lib/**/**/js test/index.js.js\",lint:"npm run jscs &
npm run jshint\",unit:"istanbul test _mocha --reporter=spec test/index.js.js\",test:"npm run lint &
npm run unit\",version:"grunt dist &
git add dist/\"],repository:{type:"git"\",url:"git@github.com:indutny/elliptic\"}\.keywords:\"EC","Elliptic","curve","Cryptogr
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in all copies or substantial portions of the Software.

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1086297786_1599256239.76/0/indutny-elliptic-v6-5-3-0-g8647803-1-targz/indutny-elliptic-ec63fcf/README.md
No license file was found, but licenses were detected in source scan.

// Apache License 2.0

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1086297786_1599256239.76/0/indutny-elliptic-v6-5-3-0-g8647803-1-targz/indutny-elliptic-ec63fcf/dist/elliptic.js
No license file was found, but licenses were detected in source scan.

/*
 * Curve 25519-based cryptography collection.
 * 
 * EC Diffie-Hellman (ECDH) based on Curve25519 and digital signatures (EdDSA)
 * based on Ed25519.
 * 
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 * 
 * You should have received a copy of the license along with this program.
 */
/**
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 * Available via the MIT or new BSD license.
 * see: http://github.com/jrburke/almond for details
 *
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Found in path(s):
* /opt/ws_local/PERMITS_SQL/1086297786_1599256239.76/0/indutny-elliptic-v6-5-3-0-g8647803-1-targz/indutny-elliptic-ec63fcf/benchmarks/deps/jodid.js

1.525 libcroco 0.6.11-1.amzn2.0.2
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**1.527 slang 2.3.1a 3ubuntu1**

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1.533 open-ldap 2.10.10

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That's all there is to it!
Here is a list of the main contributors to lm-sensors version 3.

* Frodo Looijaard
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  Original author of sensord.
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* Jean Delvare
  New libsensors API, and migration of sensors and sensord thereto.
  Many optimizations in libsensors and sensors.
  Configuration file converter.
  Rewrite of sensors-detect.
  Support for multiple configuration files in libsensors.

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1.542 lsb 9.20170808ubuntu1

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1.544 util-linux 2.16.840

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1.545 incremental 16.10.1-2.ph2

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@c ispell-local-pdict: "ispell-dict"
@c End:

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1.564 go-jose 2.5.1

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lib/libgss/g_dsp_status.c
lib/libgss/g_dup_name.c
lib/libgss/g_exp_sec_context.c
lib/libgss/g_export_name.c
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lib/gssapi/generic/gssapi_err_generic.et
lib/gssapi/mechglue/g_accept_sec_context.c
lib/gssapi/mechglue/g_acquire_cred.c
lib/gssapi/mechglue/g_canon_name.c
lib/gssapi/mechglue/g_compare_name.c
lib/gssapi/mechglue/g_context_time.c
lib/gssapi/mechglue/g_delete_sec_context.c
lib/gssapi/mechglue/g_dsp_name.c
lib/gssapi/mechglue/g_dsp_status.c
lib/gssapi/mechglue/g_dup_name.c
lib/gssapi/mechglue/g_exp_sec_context.c
lib/gssapi/mechglue/g_export_name.c
lib/gssapi/mechglue/g_glue.c
lib/gssapi/mechglue/g_imp_name.c
lib/gssapi/mechglue/g_imp_sec_context.c
lib/gssapi/mechglue/g_init_sec_context.c
lib/gssapi/mechglue/g_initialize.c
lib/gssapi/mechglue/g_inquire_context.c
lib/gssapi/mechglue/g_inquire_cred.c
lib/gssapi/mechglue/g_inquire_names.c
lib/gssapi/mechglue/g_process_context.c
lib/gssapi/mechglue/g_rel_buffer.c
lib/gssapi/mechglue/g_rel_cred.c
lib/gssapi/mechglue/g_rel_name.c
lib/gssapi/mechglue/g_rel_oid_set.c
lib/gssapi/mechglue/g_seal.c
lib/gssapi/mechglue/g_sign.c
and the initial implementation of incremental propagation, including
the following new or changed files:

include/iprop_hdr.h
kadmin/server/ipropd_svc.c
lib/kdb/iprop.x
lib/kdb/kdb_convert.c
lib/kdb/kdb_log.c
lib/kdb/kdb_log.h
lib/krb5/error_tables/kdb5_err.et
kprop/kpropd_rpc.c
kprop/kproplog.c

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If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

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6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

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a) Accompany the work with the complete corresponding
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b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

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  :alt: Build Status

1. What is this?

It's been annoying me for some time that there's no easy way to get the address(es) of the machine's network interfaces from Python. There is a good reason for this difficulty, which is that it is virtually impossible to do so in a portable manner. However, it seems to me that there should be a package you can easy_install that will take care of working out the details of doing so on the machine you're using, then you can get on with writing Python code without concerning yourself with the nitty gritty of system-dependent low-level networking APIs.

This package attempts to solve that problem.

2. How do I use it?

First you need to install it, which you can do by typing::

    tar xvzf netifaces-0.10.4.tar.gz
    cd netifaces-0.10.4
    python setup.py install
Once that's done, you'll need to start Python and do something like the following:

```python
>>> import netifaces
```

Then if you enter

```python
>>> netifaces.interfaces()
['lo0', 'gif0', 'stf0', 'en0', 'en1', 'fw0']
```

you'll see the list of interface identifiers for your machine.

You can ask for the addresses of a particular interface by doing

```python
>>> netifaces.ifaddresses('lo0')
{18: [{'addr': ''}], 2: [{'peer': '127.0.0.1', 'netmask': '255.0.0.0', 'addr': '127.0.0.1'}], 30: [{'peer': '::1', 'netmask': '::ffff:ffff:ffff:ffff:ffff:ffff:ffff:ffff', 'addr': '::1'}, {'peer': '', 'netmask': '::ffff:ffff:ffff:ffff::', 'addr': 'fe80::1%lo0'}]}
```

Hmmmm. That result looks a bit cryptic; let's break it apart and explain what each piece means. It returned a dictionary, so let's look there first:

```python
{ 18: [...], 2: [...], 30: [...] }
```

Each of the numbers refers to a particular address family. In this case, we have three address families listed; on my system, 18 is ``AF_LINK`` (which means the link layer interface, e.g. Ethernet), 2 is ``AF_INET`` (normal Internet addresses), and 30 is ``AF_INET6`` (IPv6).

But wait! Don't use these numbers in your code. The numeric values here are system dependent; fortunately, I thought of that when writing netifaces, so the module declares a range of values that you might need. e.g.

```python
>>> netifaces.AF_LINK
18
```

Again, on your system, the number may be different.

So, what we've established is that the dictionary that's returned has one entry for each address family for which this interface has an address. Let's take a look at the ``AF_INET`` addresses now:

```python
>>> addrs = netifaces.ifaddresses('lo0')
```

```python
>>> addrs[netifaces.AF_INET]
[['peer': '127.0.0.1', 'netmask': '255.0.0.0', 'addr': '127.0.0.1']]  
```

You might be wondering why this value is a list. The reason is that it's possible for an interface to have more than one address, even within the
same family. I'll say that again: *you can have more than one address of the same type associated with each interface*.

*Asking for "the" address of a particular interface doesn't make sense.*

Right, so, we can see that this particular interface only has one address, and, because it's a loopback interface, it's point-to-point and therefore has a *peer* address rather than a broadcast address.

Let's look at a more interesting interface.

```python
>>> addrs = netifaces.ifaddresses('en0')
>>> addrs[netifaces.AF_INET]
[{'broadcast': '10.15.255.255', 'netmask': '255.240.0.0', 'addr': '10.0.1.4'}, {'broadcast': '192.168.0.255', 'addr': '192.168.0.47'}]
```

This interface has two addresses (see, I told you...) Both of them are regular IPv4 addresses, although in one case the netmask has been changed from its default. The netmask *may not* appear on your system if it's set to the default for the address range.

Because this interface isn't point-to-point, it also has broadcast addresses.

Now, say we want, instead of the IP addresses, to get the MAC address; that is, the hardware address of the Ethernet adapter running this interface. We can do

```python
>>> addrs[netifaces.AF_LINK]
[['addr': '00:12:34:56:78:9a']]
```

Note that this may not be available on platforms without getifaddrs(), unless they happen to implement ```SIOCGIFHWADDR```. Note also that you just get the address; it's unlikely that you'll see anything else with an ```AF_LINK``` address. Oh, and don't assume that all ```AF_LINK``` addresses are Ethernet; you might, for instance, be on a Mac, in which case:

```python
>>> addrs = netifaces.ifaddresses('fw0')
>>> addrs[netifaces.AF_LINK]
[['addr': '00:12:34:56:78:9a:bc:de']]
```

No, that isn't an exceptionally long Ethernet MAC address---it's a FireWire address.

As of version 0.10.0, you can also obtain a list of gateways on your machine:

```python
>>> netifaces.gateways()
{2: [('10.0.1.1', 'en0', True), ('10.2.1.1', 'en1', False)], 30: [('fe80::1', 'en0', True), ('default': (2: ('10.0.1.1', 'en0'),
```
This dictionary is keyed on address family---in this case, `AF_INET`---and each entry is a list of gateways as `(address, interface, is_default)` tuples. Notice that here we have two separate gateways for IPv4 (`AF_INET`); some operating systems support configurations like this and can either route packets based on their source, or based on administratively configured routing tables.

For convenience, we also allow you to index the dictionary with the special value `'default'`, which returns a dictionary mapping address families to the default gateway in each case. Thus you can get the default IPv4 gateway with

```python
>>> gws = netifaces.gateways()
>>> gws['default'][netifaces.AF_INET]
('10.0.1.1', 'en0')
```

Do note that there may be no default gateway for any given address family; this is currently very common for IPv6 and much less common for IPv4 but it can happen even for `AF_INET`.

BTW, if you're trying to configure your machine to have multiple gateways for the same address family, it's a very good idea to check the documentation for your operating system *very* carefully, as some systems become extremely confused or route packets in a non-obvious manner.

I'm very interested in hearing from anyone (on any platform) for whom the `gateways()` method doesn't produce the expected results. It's quite complicated extracting this information from the operating system (whichever operating system we're talking about), and so I expect there's at least one system out there where this just won't work.

3. This is great! What platforms does it work on?

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It gets regular testing on OS X, Linux and Windows. It has also been used successfully on Solaris, and it's expected to work properly on other UNIX-like systems as well. If you are running something that is not supported, and wish to contribute a patch, please use BitBucket to send a pull request.

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  0.10.4/netifaces.egg-info/PKG-INFO
* /opt/ws_local/PERMITS_SQL/1016069500_1591897448.29/0/netifaces-0-10-4-orig-tar-gz/netifaces-0.10.4/PKG-
  INFO
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'License :: OSI Approved :: MIT License",

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  0.10.4/setup.py
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netifaces 0.10.4

================

.. image:: https://drone.io/bitbucket.org/al45tair/netifaces/status.png
   :target: https://drone.io/bitbucket.org/al45tair/netifaces/latest
   :alt: Build Status
1. What is this?
----------------

It's been annoying me for some time that there's no easy way to get the address(es) of the machine's network interfaces from Python. There is a good reason for this difficulty, which is that it is virtually impossible to do so in a portable manner. However, it seems to me that there should be a package you can easy_install that will take care of working out the details of doing so on the machine you're using, then you can get on with writing Python code without concerning yourself with the nitty gritty of system-dependent low-level networking APIs.

This package attempts to solve that problem.

2. How do I use it?
-------------------

First you need to install it, which you can do by typing::

    tar xzvf netifaces-0.10.4.tar.gz
    cd netifaces-0.10.4
    python setup.py install

Once that's done, you'll need to start Python and do something like the following::

    >>> import netifaces

Then if you enter

    >>> netifaces.interfaces()

['lo0', 'gif0', 'stf0', 'en0', 'en1', 'fw0']

you'll see the list of interface identifiers for your machine.

You can ask for the addresses of a particular interface by doing

    >>> netifaces.ifaddresses('lo0')

{18: [['peer': '127.0.0.1', 'netmask': '255.0.0.0', 'addr': '127.0.0.1'], 2: [{'peer': '127.0.0.1', 'netmask': '255.0.0.0', 'addr': '127.0.0.1'}], 30: [{'peer': '::1', 'netmask': 'ffff:ffff:ffff:ffff:ffff:ffff:ffff:ffff', 'addr': '::1'}, {'peer': '', 'netmask': 'ffff:ffff:ffff:ffff::', 'addr': 'fe80::1%lo0']}

Hmmmm. That result looks a bit cryptic; let's break it apart and explain what each piece means. It returned a dictionary, so let's look there first::

    { 18: [...], 2: [...], 30: [...] }

Each of the numbers refers to a particular address family. In this case, we have three address families listed; on my system, 18 is `AF_LINK` (which means
the link layer interface, e.g. Ethernet), 2 is `"AF_INET` (normal Internet addresses), and 30 is `"AF_INET6` (IPv6).

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1.601 commons-codec 1.12

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1.602 parse-json 5.1.0

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1.603 jline 0.9.94

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* /opt/cola/permits/1000738731_1646171490.77/0/jline-0-9-94-sources-jar/jline/CandidateListCompletionHandler.java
* /opt/cola/permits/1000738731_1646171490.77/0/jline-0-9-94-sources-jar/jline/History.java
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* /opt/cola/permits/1000738731_1646171490.77/0/jline-0-9-94-sources-jar/jline/ConsoleRunner.java
* /opt/cola/permits/1000738731_1646171490.77/0/jline-0-9-94-sources-jar/jline/NullCompletor.java
* /opt/cola/permits/1000738731_1646171490.77/0/jline-0-9-94-sources-jar/jline/FileNameCompletor.java
* /opt/cola/permits/1000738731_1646171490.77/0/jline-0-9-94-sources-jar/jline/ConsoleOperations.java
1.604 libgcrypt 1.8.4
1.604.1 Available under license:

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1.611 is-binary-path 2.1.0

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1.612 readline 7.0 3

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However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards
changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, while the latter only works together with the library.

Note that it is possible for a library to be covered by the ordinary General Public License rather than by this special one.

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0. This License Agreement applies to any software library which contains a notice placed by the copyright holder or other authorized party saying it may be distributed under the terms of this Library General Public License (also called "this License"). Each licensee is addressed as "you".

A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification".)

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

1. You may copy and distribute verbatim copies of the Library's
complete source code as you receive it, in any medium, provided that
you conspicuously and appropriately publish on each copy an
appropriate copyright notice and disclaimer of warranty; keep intact
all the notices that refer to this License and to the absence of any
warranty; and distribute a copy of this License along with the
Library.

You may charge a fee for the physical act of transferring a copy,
and you may at your option offer warranty protection in exchange for a
fee.

2. You may modify your copy or copies of the Library or any portion
of it, thus forming a work based on the Library, and copy and
distribute such modifications or work under the terms of Section 1
above, provided that you also meet all of these conditions:

a) The modified work must itself be a software library.

b) You must cause the files modified to carry prominent notices
stating that you changed the files and the date of any change.

c) You must cause the whole of the work to be licensed at no
charge to all third parties under the terms of this License.

d) If a facility in the modified Library refers to a function or a
table of data to be supplied by an application program that uses
the facility, other than as an argument passed when the facility
is invoked, then you must make a good faith effort to ensure that,
in the event an application does not supply such function or
table, the facility still operates, and performs whatever part of
its purpose remains meaningful.

(For example, a function in a library to compute square roots has
a purpose that is entirely well-defined independent of the
application. Therefore, Subsection 2d requires that any
application-supplied function or table used by this function must
be optional: if the application does not supply it, the square
root function must still compute square roots.)

These requirements apply to the modified work as a whole. If
identifiable sections of that work are not derived from the Library,
and can be reasonably considered independent and separate works in
themselves, then this License, and its terms, do not apply to those
sections when you distribute them as separate works. But when you
distribute the same sections as part of a whole which is a work based
on the Library, the distribution of the whole must be on the terms of
this License, whose permissions for other licensees extend to the
entire whole, and thus to each and every part regardless of who wrote
Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library
creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also compile or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the
Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

c) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

d) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

   a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.

   b) Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

8. You may not copy, modify, sublicense, link with, or distribute the Library except as expressly provided under this License. Any
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the only way you could satisfy both it and this License would be to
refrain entirely from distribution of the Library.

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particular circumstance, the balance of the section is intended to apply,
and the section as a whole is intended to apply in other circumstances.

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such claims; this section has the sole purpose of protecting the
integrity of the free software distribution system which is
implemented by public license practices. Many people have made
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to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

12. If the distribution and/or use of the Library is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Library under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

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END OF TERMS AND CONDITIONS

Appendix: How to Apply These Terms to Your New Libraries

If you develop a new library, and you want it to be of the greatest possible use to the public, we recommend making it free software that everyone can redistribute and change. You can do so by permitting redistribution under these terms (or, alternatively, under the terms of the ordinary General Public License).

To apply these terms, attach the following notices to the library. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the library's name and a brief idea of what it does.>  Copyright (C) <year>  <name of author>

This library is free software; you can redistribute it and/or modify it under the terms of the GNU Library General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

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Also add information on how to contact you by electronic and paper mail.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the library, if necessary. Here is a sample; alter the names:
Yoyodyne, Inc., hereby disclaims all copyright interest in the library `Frob' (a library for tweaking knobs) written by James Random Hacker.

<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

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Version 3, 29 June 2007

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To protect your rights, we need to prevent others from denying you these rights or asking you to surrender the rights. Therefore, you have certain responsibilities if you distribute copies of the software, or if you modify it: responsibilities to respect the freedom of others.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must pass on to the recipients the same freedoms that you received. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

Developers that use the GNU GPL protect your rights with two steps:
assert copyright on the software, and (2) offer you this License giving you legal permission to copy, distribute and/or modify it.

For the developers' and authors' protection, the GPL clearly explains that there is no warranty for this free software. For both users' and authors' sake, the GPL requires that modified versions be marked as changed, so that their problems will not be attributed erroneously to authors of previous versions.

Some devices are designed to deny users access to install or run modified versions of the software inside them, although the manufacturer can do so. This is fundamentally incompatible with the aim of protecting users' freedom to change the software. The systematic pattern of such abuse occurs in the area of products for individuals to use, which is precisely where it is most unacceptable. Therefore, we have designed this version of the GPL to prohibit the practice for those products. If such problems arise substantially in other domains, we stand ready to extend this provision to those domains in future versions of the GPL, as needed to protect the freedom of users.

Finally, every program is threatened constantly by software patents. States should not allow patents to restrict development and use of software on general-purpose computers, but in those that do, we wish to avoid the special danger that patents applied to a free program could make it effectively proprietary. To prevent this, the GPL assures that patents cannot be used to render the program non-free.

The precise terms and conditions for copying, distribution and modification follow.

TERMS AND CONDITIONS

0. Definitions.

"This License" refers to version 3 of the GNU General Public License.

"Copyright" also means copyright-like laws that apply to other kinds of works, such as semiconductor masks.

"The Program" refers to any copyrightable work licensed under this License. Each licensee is addressed as "you". "Licensees" and "recipients" may be individuals or organizations.

To "modify" a work means to copy from or adapt all or part of the work in a fashion requiring copyright permission, other than the making of an exact copy. The resulting work is called a "modified version" of the earlier work or a work "based on" the earlier work.
A "covered work" means either the unmodified Program or a work based on the Program.

To "propagate" a work means to do anything with it that, without permission, would make you directly or secondarily liable for infringement under applicable copyright law, except executing it on a computer or modifying a private copy. Propagation includes copying, distribution (with or without modification), making available to the public, and in some countries other activities as well.

To "convey" a work means any kind of propagation that enables other parties to make or receive copies. Mere interaction with a user through a computer network, with no transfer of a copy, is not conveying.

An interactive user interface displays "Appropriate Legal Notices" to the extent that it includes a convenient and prominently visible feature that (1) displays an appropriate copyright notice, and (2) tells the user that there is no warranty for the work (except to the extent that warranties are provided), that licensees may convey the work under this License, and how to view a copy of this License. If the interface presents a list of user commands or options, such as a menu, a prominent item in the list meets this criterion.


The "source code" for a work means the preferred form of the work for making modifications to it. "Object code" means any non-source form of a work.

A "Standard Interface" means an interface that either is an official standard defined by a recognized standards body, or, in the case of interfaces specified for a particular programming language, one that is widely used among developers working in that language.

The "System Libraries" of an executable work include anything, other than the work as a whole, that (a) is included in the normal form of packaging a Major Component, but which is not part of that Major Component, and (b) serves only to enable use of the work with that Major Component, or to implement a Standard Interface for which an implementation is available to the public in source code form. A "Major Component", in this context, means a major essential component (kernel, window system, and so on) of the specific operating system (if any) on which the executable work runs, or a compiler used to produce the work, or an object code interpreter used to run it.

The "Corresponding Source" for a work in object code form means all the source code needed to generate, install, and (for an executable work) run the object code and to modify the work, including scripts to
control those activities. However, it does not include the work’s System Libraries, or general-purpose tools or generally available free programs which are used unmodified in performing those activities but which are not part of the work. For example, Corresponding Source includes interface definition files associated with source files for the work, and the source code for shared libraries and dynamically linked subprograms that the work is specifically designed to require, such as by intimate data communication or control flow between those subprograms and other parts of the work.

The Corresponding Source need not include anything that users can regenerate automatically from other parts of the Corresponding Source.

The Corresponding Source for a work in source code form is that same work.

2. Basic Permissions.

All rights granted under this License are granted for the term of copyright on the Program, and are irrevocable provided the stated conditions are met. This License explicitly affirms your unlimited permission to run the unmodified Program. The output from running a covered work is covered by this License only if the output, given its content, constitutes a covered work. This License acknowledges your rights of fair use or other equivalent, as provided by copyright law.

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You may charge any price or no price for each copy that you convey, and you may offer support or warranty protection for a fee.

5. Conveying Modified Source Versions.

You may convey a work based on the Program, or the modifications to produce it from the Program, in the form of source code under the terms of section 4, provided that you also meet all of these conditions:

a) The work must carry prominent notices stating that you modified it, and giving a relevant date.

b) The work must carry prominent notices stating that it is released under this License and any conditions added under section 7. This requirement modifies the requirement in section 4 to "keep intact all notices".

c) You must license the entire work, as a whole, under this License to anyone who comes into possession of a copy. This License will therefore apply, along with any applicable section 7 additional terms, to the whole of the work, and all its parts, regardless of how they are packaged. This License gives no permission to license the work in any other way, but it does not invalidate such permission if you have separately received it.

d) If the work has interactive user interfaces, each must display Appropriate Legal Notices; however, if the Program has interactive interfaces that do not display Appropriate Legal Notices, your
work need not make them do so.

A compilation of a covered work with other separate and independent works, which are not by their nature extensions of the covered work, and which are not combined with it such as to form a larger program, in or on a volume of a storage or distribution medium, is called an "aggregate" if the compilation and its resulting copyright are not used to limit the access or legal rights of the compilation's users beyond what the individual works permit. Inclusion of a covered work in an aggregate does not cause this License to apply to the other parts of the aggregate.

6. Conveying Non-Source Forms.

You may convey a covered work in object code form under the terms of sections 4 and 5, provided that you also convey the machine-readable Corresponding Source under the terms of this License, in one of these ways:

a) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by the Corresponding Source fixed on a durable physical medium customarily used for software interchange.

b) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by a written offer, valid for at least three years and valid for as long as you offer spare parts or customer support for that product model, to give anyone who possesses the object code either (1) a copy of the Corresponding Source for all the software in the product that is covered by this License, on a durable physical medium customarily used for software interchange, for a price no more than your reasonable cost of physically performing this conveying of source, or (2) access to copy the Corresponding Source from a network server at no charge.

c) Convey individual copies of the object code with a copy of the written offer to provide the Corresponding Source. This alternative is allowed only occasionally and noncommercially, and only if you received the object code with such an offer, in accord with subsection 6b.

d) Convey the object code by offering access from a designated place (gratis or for a charge), and offer equivalent access to the Corresponding Source in the same way through the same place at no further charge. You need not require recipients to copy the Corresponding Source along with the object code. If the place to copy the object code is a network server, the Corresponding Source
may be on a different server (operated by you or a third party) that supports equivalent copying facilities, provided you maintain clear directions next to the object code saying where to find the Corresponding Source. Regardless of what server hosts the Corresponding Source, you remain obligated to ensure that it is available for as long as needed to satisfy these requirements.

e) Convey the object code using peer-to-peer transmission, provided you inform other peers where the object code and Corresponding Source of the work are being offered to the general public at no charge under subsection 6d.

A separable portion of the object code, whose source code is excluded from the Corresponding Source as a System Library, need not be included in conveying the object code work.

A "User Product" is either (1) a "consumer product", which means any tangible personal property which is normally used for personal, family, or household purposes, or (2) anything designed or sold for incorporation into a dwelling. In determining whether a product is a consumer product, doubtful cases shall be resolved in favor of coverage. For a particular product received by a particular user, "normally used" refers to a typical or common use of that class of product, regardless of the status of the particular user or of the way in which the particular user actually uses, or expects or is expected to use, the product. A product is a consumer product regardless of whether the product has substantial commercial, industrial or non-consumer uses, unless such uses represent the only significant mode of use of the product.

"Installation Information" for a User Product means any methods, procedures, authorization keys, or other information required to install and execute modified versions of a covered work in that User Product from a modified version of its Corresponding Source. The information must suffice to ensure that the continued functioning of the modified object code is in no case prevented or interfered with solely because modification has been made.

If you convey an object code work under this section in, or with, or specifically for use in, a User Product, and the conveying occurs as part of a transaction in which the right of possession and use of the User Product is transferred to the recipient in perpetuity or for a fixed term (regardless of how the transaction is characterized), the Corresponding Source conveyed under this section must be accompanied by the Installation Information. But this requirement does not apply if neither you nor any third party retains the ability to install modified object code on the User Product (for example, the work has been installed in ROM).
The requirement to provide Installation Information does not include a requirement to continue to provide support service, warranty, or updates for a work that has been modified or installed by the recipient, or for the User Product in which it has been modified or installed. Access to a network may be denied when the modification itself materially and adversely affects the operation of the network or violates the rules and protocols for communication across the network.

Corresponding Source conveyed, and Installation Information provided, in accord with this section must be in a format that is publicly documented (and with an implementation available to the public in source code form), and must require no special password or key for unpacking, reading or copying.

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 (actually AT&T syntax for insns and operands,
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/* Use the Sequent Symmetry assembler syntax. */

/* Define the syntax of pseudo-ops, labels and comments. */

/* Prefix for internally generated assembler labels. If we aren't using underscores, we are using prefix `.`'s to identify labels that should be ignored, as in `i386/gas.h' --karl@cs.umb.edu */

#define LPREFIX "L"

/* Assembler pseudos to introduce constants of various size. */

#define ASM_BYTE "\t.byte\t"
#define ASM_SHORT "\t.word\t"
/* Define the syntax of labels and symbol definitions/declarations. */

/* This is how to output an assembler line
that says to advance the location counter by SIZE bytes. */

#define ASM_OUTPUT_SKIP(FILE,SIZE) \
fprintf (FILE, "t.space " HOST_WIDE_INT_PRINT_UNSIGNED\n", (SIZE))

/* Define the syntax of labels and symbol definitions/declarations. */

/* This says how to output an assembler line
to define a global common symbol. */

#define ASM_OUTPUT_COMMON(FILE, NAME, SIZE, ROUNDED) \
( fputs (".comm ", (FILE)), \
 assemble_name ((FILE), (NAME)), \
 fprintf ((FILE), ",%u\n", (int)(ROUNDED)))

/* This says how to output an assembler line
to define a local common symbol. */

#define ASM_OUTPUT_LOCAL(FILE, NAME, SIZE, ROUNDED) \ 
( fputs (".lcomm ", (FILE)), \ 
 assemble_name ((FILE), (NAME)), \ 
 fprintf ((FILE), ",%u\n", (int)(ROUNDED)))

#define ASM_OUTPUT_ALIGNED_LOCAL(FILE, NAME, SIZE, ALIGNMENT) \ 
( fputs (".lcomm ", (FILE)), \ 
 assemble_name ((FILE), (NAME)), \ 
 fprintf ((FILE), ",%u,%u\n", (int)(SIZE), (int)(ALIGNMENT) / BITS_PER_UNIT))

#ifndef HAVE_GAS_LCOMM_WITH_ALIGNMENT
#define ASM_OUTPUT_ALIGNED_LOCAL(FILE, NAME, SIZE, ALIGNMENT) \ 
( fputs (".lcomm ", (FILE)), \ 
 assemble_name ((FILE), (NAME)), \ 
 fprintf ((FILE), ",%u,%u\n", (int)(SIZE), (int)(ALIGNMENT) / BITS_PER_UNIT))
#endif

/* This is how to output an assembler line
that says to advance the location counter
to a multiple of 2**LOG bytes. */

#define ASM_OUTPUT_ALIGN(FILE,LOG) \ 
if ((LOG)!=0) fprintf ((FILE), "t.align %d\n", (LOG))

/* This is how to store into the string BUF */
the symbol_ref name of an internal numbered label where
PREFIX is the class of label and NUM is the number within the class.
This is suitable for output with `assemble_name'. */

#define ASM_GENERATE_INTERNAL_LABEL(BUF,PREFIX,NUMBER)
    sprintf ((BUF), "*%s%ld", (PREFIX), (long)(NUMBER))

/* The prefix to add to user-visible assembler symbols. */
#define USER_LABEL_PREFIX "_

/* Sequent has some changes in the format of DBX symbols. */
#define DBX_NO_XREFS 1

/* Don't split DBX symbols into continuations. */
#define DBX_CONTIN_LENGTH 0

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```
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```

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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the
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d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

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<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

That's all there is to it!
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</bridgehead>

The source code for a work means the preferred form of the work for making modifications to it. Object code means any non-source form of a work.
</para>

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to the public in source code form. A Major Component, in this
context, means a major essential component (kernel, window system, and so
on) of the specific operating system (if any) on which the executable work
runs, or a compiler used to produce the work, or an object code interpreter
used to run it.
</para>
<para>
The Corresponding Source for a work in object code form means
all the source code needed to generate, install, and (for an executable
work) run the object code and to modify the work, including scripts to
control those activities. However, it does not include the works
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communication or control flow between those subprograms and other parts of
the work.
</para>
<para>
The Corresponding Source need not include anything that users can regenerate
automatically from other parts of the Corresponding Source.
</para>
<para>
The Corresponding Source for a work in source code form is that same work.
</para>
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<bridgehead xml:id="ConveyingNonSource" renderas="sect1">
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 </listitem>
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Julian Seward, jseward@bzip.org
bzip2/libbzip2 version 1.0.6 of 6 September 2010

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Standard preamble:

" Standard preamble:
": de Sp " Vertical space (when we can't use .PP)
: .if t .sp .5v
: .if n .sp
: ...
: .de Vb " Begin verbatim text
: .ft CW
: .nf
: .ne \$1
: ...
: .de Ve " End verbatim text
: .ft R
: .fi
: ...
" Set up some character translations and predefined strings. \"(--) will
\" give an unbreakable dash, \"(PI will give pi, \"(L" will give a left
\" double quote, and \"(R" will give a right double quote. \"(C+ will
\" give a nicer C++. Capital omega is used to do unbreakable dashes and
\" therefore won't be available. \"(C' and \"(C' expand to ' ' in nroff,
\" nothing in troff, for use with C<<).
: .tr \(*W-,\n: .ds C+ C\'-.1v\h'-1p\'s-2+\h'-.1p'+'s0\v'1v\h'-1p'
: .ie n \{
: . ds -- \(*W-
: . ds PI pi
: . if (\(H=4u)&(1m=24u) .ds -- \(*W/12u\('W/12u-\') diablo 10 pitch
: . if (\(H=4u)&(1m=20u) .ds -- \('W/12u\('W/8u-\') diablo 12 pitch
: . ds L" "'
: . ds R" "'
: . ds C" "'
: . ds C' "'
: \'br\}
: .el\{
: . ds -- \((em)\]
: . ds PI \('*p
: . ds L" "'
: . ds R" "'
: . ds C
: . ds C'
: \'br\}
" Escape single quotes in literal strings from groff's Unicode transform.
: .ie \(n,.g .ds Aq \(aq
: .el .ds Aq'
" If the F register is turned on, we'll generate index entries on stderr for
" titles (.TH), headers (.SH), subsections (.SS), items (.Ip), and index
"entries marked with X<> in POD. Of course, you'll have to process the " entries yourself in some meaningful fashion.

" Avoid warning from groff about undefined register 'F'.

.de IX
...
.nr rF 0
.if \n(g .if rF .nr rF 1
.if (\n(rF;\n(g==0)) \{
 . if \nF \{
 . de IX
 . tm Index:\$1\n\n%\rt"\$2"
...
 . if !\nF==2 \{
 . nr % 0
 . nr F 2
 . \}
 . \}
 .} .rr rF
"

" Accent mark definitions (@(#)ms.acc 1.5 88/02/08 SMI; from UCB 4.2).

" Fear. Run. Save yourself. No user-serviceable parts.
 . " fudge factors for nroff and troff
 . if n \{
 . ds #H 0
 . ds #V .8m
 . ds #F .3m
 . ds ![ \f1
 . ds #] \fP
 .} .if t \{
 . ds #H ((1u-\n(.fu%2u))*.13m)
 . ds #V .6m
 . ds #F 0
 . ds ![ \&
 . ds #] \&
 .} .if t \{
 . " simple accents for nroff and troff
 . if n \{
 . ds ` \&
 . ds ` \&
 . ds ^ \&
 . ds , \&
 . ds ~ ~
 . ds /
 .} .if t \{

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[This is the first released version of the library GPL. It is numbered 2 because it goes with version 2 of the ordinary GPL.]
Preamble
========

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Yoyodyne, Inc., hereby disclaims all copyright interest in the library
`Frob' (a library for tweaking knobs) written by James Random Hacker.

SIGNATURE OF TY COON, 1 April 1990
Ty Coon, President of Vice

That's all there is to it!

#!/usr/bin/python
#
# Copyright (C) 2013-2017 Free Software Foundation, Inc.
#
# This script is free software; you can redistribute it and/or modify
# it under the terms of the GNU General Public License as published by
# the Free Software Foundation; either version 3, or (at your option)
# any later version.
#
# This script adjusts the copyright notices at the top of source files
# so that they have the form:
#
#   Copyright XXXX-YYYY Free Software Foundation, Inc.
#
# It doesn't change code that is known to be maintained elsewhere or
# that carries a non-FSF copyright.
#
# The script also doesn't change testsuite files, except those in
# libstdc++-v3. This is because libstdc++-v3 has a conformance testsuite,
# while most tests in other directories are just things that failed at some
# point in the past.
#
# Pass --this-year to the script if you want it to add the current year
# to all applicable notices. Pass --quilt if you are using quilt and
# want files to be added to the quilt before being changed.
#
# By default the script will update all directories for which the
# output has been vetted. You can instead pass the names of individual
# directories, including those that haven't been approved. So:
#
#   update-copyright.py --this-year
#
# is the command that would be used at the beginning of a year to update
# all copyright notices (and possibly at other times to check whether
# new files have been added with old years). On the other hand:
#
#   update-copyright.py --this-year libitm
#
# would run the script on just libitm/.
#
# Note that things like --version output strings must be updated before
# this script is run. There's already a separate procedure for that.

import os
import re
import sys
import time
import subprocess

class Errors:
    def __init__(self):
        self.num_errors = 0

    def report(self, filename, string):
        if filename:
            string = filename + ': ' + string
        sys.stderr.write(string + '
')
        self.num_errors += 1

    def ok(self):
        return self.num_errors == 0

class GenericFilter:
    def __init__(self):
        self.skip_files = set()
        self.skip_dirs = set()
        self.skip_extensions = set()
        self.fossilised_files = set()
        self.own_files = set()

        self.skip_files |= set([
            # Skip licence files.
            'COPYING',
            'COPYING.LIB',
            'COPYING3',
            'COPYING3.LIB',
            'LICENSE',
            'fdl.texi',
            'gpl_v3.texi',
            'fdl-1.3.xml',
            'gpl-3.0.xml',

            # Skip auto- and libtool-related files
            'aclocal.m4',
            'compile',
            'config.guess',
            'config.sub',
            'depcomp',
            'install-sh',
        ])

        self.skip_dirs |= set([
            # Skip directory containing licence files
            'COPYING',
            'COPYING.LIB',
            'COPYING3',
            'COPYING3.LIB',
            'LICENSE',
            'fdl.texi',
            'gpl_v3.texi',
            'fdl-1.3.xml',
            'gpl-3.0.xml',

            # Skip directory containing auto- and libtool-related files
            'aclocal.m4',
            'compile',
            'config.guess',
            'config.sub',
            'depcomp',
            'install-sh',
        ])

        self.fossilised_files |= set([
            # Skip files that have been committed to version control
            'COPYING',
            'COPYING.LIB',
            'COPYING3',
            'COPYING3.LIB',
            'LICENSE',
            'fdl.texi',
            'gpl_v3.texi',
            'fdl-1.3.xml',
            'gpl-3.0.xml',

            # Skip files that have been committed to version control
            'aclocal.m4',
            'compile',
            'config.guess',
            'config.sub',
            'depcomp',
            'install-sh',
        ])

        self.own_files |= set([
            # Skip files that are owned by the developer
            'COPYING',
            'COPYING.LIB',
            'COPYING3',
            'COPYING3.LIB',
            'LICENSE',
            'fdl.texi',
            'gpl_v3.texi',
            'fdl-1.3.xml',
            'gpl-3.0.xml',

            # Skip files that are owned by the developer
            'aclocal.m4',
            'compile',
            'config.guess',
            'config.sub',
            'depcomp',
            'install-sh',
        ])
'libtool.m4',
'ltmain.sh',
'ltoptions.m4',
'ltversion.m4',
'lt~obsolete.m4',
'missing',
'mkdep',
'mkinstalldirs',
'move-if-change',
'shlibpath.m4',
'symlink-tree',
'ylwrap',

# Skip FSF mission statement, etc.
'gnu.texi',
'funding.texi',
'appendix_free.xml',

# Skip imported texinfo files.
'texinfo.tex',
}

def get_line_filter (self, dir, filename):
    if filename.startswith ('ChangeLog'):
        # Ignore references to copyright in changelog entries.
        return re.compile ('\t')
    return None

def skip_file (self, dir, filename):
    if filename in self.skip_files:
        return True
    (base, extension) = os.path.splitext (os.path.join (dir, filename))
    if extension in self.skip_extensions:
        return True

    if extension == '.in':
        # Skip .in files produced by automake.
        if os.path.exists (base + '.am'):
            return True

    # Skip files produced by autogen
    if (os.path.exists (base + '.def')
        and os.path.exists (base + '.tpl')):
        return True
# Skip configure files produced by autoconf
if filename == 'configure':
    if os.path.exists (base + '.ac'):
        return True
    if os.path.exists (base + '.in'):
        return True

return False

def skip_dir (self, dir, subdir):
    return subdir in self.skip_dirs

def is_fossilised_file (self, dir, filename):
    if filename in self.fossilised_files:
        return True
    # Only touch current current ChangeLogs.
    if filename != 'ChangeLog' and filename.find ('ChangeLog') >= 0:
        return True
    return False

def by_package_author (self, dir, filename):
    return filename in self.own_files

class Copyright:
    def __init__ (self, errors):
        self.errors = errors

        # Characters in a range of years. Include ‘.’ for typos.
        ranges = '\[0-9\](?:[-0-9,.\s]+and\s+)*\[0-9\]

        # Non-whitespace characters in a copyright holder's name.
        name = '\[\w..-\]'

        # Matches one year.
        self.year_re = re.compile ('\[0-9]+')

        # Matches part of a year or copyright holder.
        self.continuation_re = re.compile (ranges + '|' + name)

        # Matches a full copyright notice:
        self.copyright_re = re.compile (\`
            \(\[Cc\]opyright\(\(C\)\)?, etc.
            \((\[Cc\]opyright\(\(C\)\)?\s+[\(\{Cc\]\)
            \(\[Cc\]opyright\s+%s
            \(\[Cc\]opyright\s+&copy,\n            \(\[Cc\]opyright\s+@copyright \)
        \)`
`[copyright = u'`
`[@sets+copyright[\w-]+')`

# 2: the years. Include the whitespace in the year, so that
# we can remove any excess.
'\ls*(:? + ranges + :?)'
`[@value\{[^{}]*\})\ls*')`

# 3: 'by ', if used
'(by\ls+)?'

# 4: the copyright holder. Don't allow multiple consecutive
# spaces, so that right-margin gloss doesn't get caught
# (e.g. gnat_ugn.texi).
'( + name +(?:\ls?' + name + ')*)?'

# A regexp for notices that might have slipped by. Just matching
# 'copyright' is too noisy, and 'copyright.^[0-9]' falls foul of
# HTML header markers, so check for 'copyright' and two digits.
self.other_copyright_re = re.compile ('copyright.*[0-9][0-9]
re.IGNORECASE)
self.comment_re = re.compile('#+|[*]+|;+|%+|//+|@c |dnl ')
self.holders = { '@copying': '@copying' }
self.holder_prefixes = set()

# True to 'quilt add' files before changing them.
self.quilt = False

# If set, force all notices to include this year.
self.max_year = None

# Goes after the year(s). Could be ','.
self.separator = ','

def add_package_author (self, holder, canon_form = None):
    if not canon_form:
        canon_form = holder
    self.holders[holder] = canon_form
    index = holder.find (')
    while index >= 0:
        self.holder_prefixes.add (holder[:index])
        index = holder.find ('', index + 1)

def add_external_author (self, holder):
    self.holders[holder] = None

class BadYear():
    def __init__ (self, year):
self.year = year

def __str__(self):
    return 'unrecognised year: ' + self.year

def parse_year(self, string):
    year = int(string)
    if len(string) == 2:
        if year > 70:
            return year + 1900
        elif len(string) == 4:
            return year
    raise self.BadYear(string)

def year_range(self, years):
    year_list = [self.parse_year(year)
                 for year in self.year_re.findall(years)]
    assert len(year_list) > 0
    return (min(year_list), max(year_list))

def set_use_quilt(self, use_quilt):
    self.use_quilt = use_quilt

def include_year(self, year):
    assert not self.max_year
    self.max_year = year

def canonicalise_years(self, dir, filename, filter, years):
    # Leave texinfo variables alone.
    if years.startswith('@value '):
        return years

    (min_year, max_year) = self.year_range(years)

    # Update the upper bound, if enabled.
    if self.max_year and not filter.is_fossilised_file(dir, filename):
        max_year = max(max_year, self.max_year)

    # Use a range.
    if min_year == max_year:
        return '%d' % min_year
    else:
        return '%d-%d' % (min_year, max_year)

def strip_continuation(self, line):
    line = line.lstrip()
    match = self.comment_re.match(line)
    if match:
line = line[match.end():].lstrip()
return line

def is_complete(self, match):
    holder = match.group(4)
    return (holder
            and (holder not in self.holder_prefixes
                 or holder in self.holders))

def update_copyright(self, dir, filename, filter, file, line, match):
    orig_line = line
    next_line = None
    pathname = os.path.join(dir, filename)

    intro = match.group(1)
    if intro.startswith('@set'):
        # Texinfo year variables should always be on one line
        after_years = line[match.end(2):].strip()
        if after_years != '':
            self.errors.report(pathname,
                'trailing characters in @set: '
                + after_years)
            return (False, orig_line, next_line)
    else:
        # If it looks like the copyright is incomplete, add the next line.
        while not self.is_complete(match):
            try:
                next_line = file.next()
            except StopIteration:
                break
            # If the next line doesn't look like a proper continuation,
            # assume that what we've got is complete.
            continuation = self.strip_continuation(next_line)
            if not self.continuation_re.match(continuation):
                break

            # Merge the lines for matching purposes.
            orig_line += next_line
            line = line.rstrip() + ' ' + continuation
            next_line = None

            # Rematch with the longer line, at the original position.
            match = self.copyright_re.match(line, match.start())
            assert match

            holder = match.group(4)
# Use the filter to test cases where markup is getting in the way.
if filter.by_package_author (dir, filename):
    assert holder not in self.holders

elif not holder:
    self.errors.report (pathname, 'missing copyright holder')
    return (False, orig_line, next_line)

elif holder not in self.holders:
    self.errors.report (pathname,
        'unrecognised copyright holder: ' + holder)
    return (False, orig_line, next_line)

else:
    # See whether the copyright is associated with the package
    # author.
    canon_form = self.holders[holder]
    if not canon_form:
        return (False, orig_line, next_line)

    # Make sure the author is given in a consistent way.
    line = (line[:match.start (4)]
            + canon_form
            + line[match.end (4):])

    # Remove any 'by'
    line = line[:match.start (3)] + line[match.end (3):]

    # Update the copyright years.
    years = match.group (2).strip()
    try:
        canon_form = self.canonicalise_years (dir, filename, filter, years)
    except self.BadYear as e:
        self.errors.report (pathname, str (e))
        return (False, orig_line, next_line)

    line = (line[:match.start (2)]
            + ('' if intro.startswith ('copyright = ') else ' ')
            + canon_form + self.separator
            + line[match.end (2):])

    # Use the standard (C) form.
    if intro.endswith ('right'):
        intro += ' (C)'
    elif intro.endswith ('(c)'):
        intro = intro[:-3] + '(C)'
    line = line[:match.start (1)] + intro + line[match.end (1):]
# Strip trailing whitespace
line = line.rstrip() + 
return (line != orig_line, line, next_line)

def process_file (self, dir, filename, filter):
    pathname = os.path.join (dir, filename)
    if filename.endswith ('.tmp'):
        # Looks like something we tried to create before.
        try:
            os.remove (pathname)
        except OSError:
            pass
        return
    lines = []
    changed = False
    line_filter = filter.get_line_filter (dir, filename)
    mode = None
    with open (pathname, 'r') as file:
        prev = None
        mode = os.fstat (file.fileno()).st_mode
    for line in file:
        while line:
            next_line = None
            # Leave filtered-out lines alone.
            if not (line_filter and line_filter.match (line)):
                match = self.copyright_re.search (line)
                if match:
                    res = self.update_copyright (dir, filename, filter,
                                                file, line, match)
                    (this_changed, line, next_line) = res
                    changed = changed or this_changed
            # Check for copyright lines that might have slipped by.
            elif self.other_copyright_re.search (line):
                self.errors.report (pathname,
                                    'unrecognised copyright: %s'
                                    % line.strip())
                lines.append (line)
            line = next_line

    # If something changed, write the new file out.
    if changed and self.errors.ok():
        tmp_pathname = pathname + '.tmp'
        with open (tmp_pathname, 'w') as file:
            for line in lines:
                file.write (line)
os.fchmod (file.fileno(), mode)
if self.use_quilt:
    subprocess.call (["quilt", 'add', pathname])
os.rename (tmp_pathname, pathname)

def process_tree (self, tree, filter):
    for (dir, subdirs, filenames) in os.walk (tree):
        # Don't recurse through directories that should be skipped.
        for i in xrange (len (subdirs) - 1, -1, -1):
            if filter.skip_dir (dir, subdirs[i]):
                del subdirs[i]

        # Handle the files in this directory.
        for filename in filenames:
            if filter.skip_file (dir, filename):
                sys.stdout.write ('Skipping %s
' % os.path.join (dir, filename))
            else:
                self.process_file (dir, filename, filter)

class CmdLine:
    def __init__ (self, copyright = Copyright):
        self.errors = Errors()
        self.copyright = copyright (self.errors)
        self.dirs = []
        self.default_dirs = []
        self.chosen_dirs = []
        self.option_handlers = dict()
        self.option_help = []

        self.add_option ('--help', 'Print this help', self.o_help)
        self.add_option ('--quilt', '"quilt add" files before changing them',
                         self.o_quilt)
        self.add_option ('--this-year', 'Add the current year to every notice',
                         self.o_this_year)

    def add_option (self, name, help, handler):
        self.option_help.append ((name, help))
        self.option_handlers[name] = handler

    def add_dir (self, dir, filter = GenericFilter()):
        self.dirs.append ((dir, filter))

    def o_help (self, option = None):
        sys.stdout.write ('Usage: %s
' % sys.argv[0])
        format = '%-15s %s
' % (what, help)
        for (what, help) in self.option_help:
            sys.stdout.write (format % what, help)

    def add_dir (self, dir, filter = GenericFilter()):
        self.dirs.append ((dir, filter))

    def o_help (self, option = None):
        sys.stdout.write ('Usage: %s
' % sys.argv[0])
        format = '%-15s %s
' % (what, help)
        for (what, help) in self.option_help:
sys.stdout.write (format % (what, help))
sys.stdout.write ('\n')

format = '%-25s'
i = 0
for (dir, filter) in self.dirs:
    i += 1
    if i % 3 == 0 or i == len (self.dirs):
        sys.stdout.write (dir + '\n')
    else:
        sys.stdout.write (format % dir)
sys.exit (0)

def o_quilt (self, option):
    self.copyright.set_use_quilt (True)

def o_this_year (self, option):
    self.copyright.include_year (time.localtime().tm_year)

def main (self):
    for arg in sys.argv[1:]:
        if arg[:1] != '-' :
            self.chosen_dirs.append (arg)
        elif arg in self.option_handlers:
            self.option_handlers[arg] (arg)
        else:
            self.errors.report (None, 'unrecognised option: ' + arg)
    if self.errors.ok():
        if len (self.chosen_dirs) == 0:
            self.chosen_dirs = self.default_dirs
        if len (self.chosen_dirs) == 0:
            self.o_help()
        else:
            for chosen_dir in self.chosen_dirs:
                canon_dir = os.path.join (chosen_dir, '')
                count = 0
                for (dir, filter) in self.dirs:
                    if (dir + os.sep).startswith (canon_dir):
                        count += 1
                self.copyright.process_tree (dir, filter)
                if count == 0:
                    self.errors.report (None, 'unrecognised directory: ' + chosen_dir)
                sys.exit (0 if self.errors.ok() else 1)

#:----------------------------------------------------------------------------------

class TopLevelFilter (GenericFilter):
def skip_dir(self, dir, subdir):
    return True

class ConfigFilter(GenericFilter):
    def __init__(self):
        GenericFilter.__init__(self)

    def skip_file(self, dir, filename):
        if filename.endswith('.m4'):
            pathname = os.path.join(dir, filename)
            with open(pathname) as file:
                # Skip files imported from gettext.
                if file.readline().find('gettext-') >= 0:
                    return True
            return GenericFilter.skip_file(self, dir, filename)

class GCCFilter(GenericFilter):
    def __init__(self):
        GenericFilter.__init__(self)
        self.skip_files |= set(['
            # Not part of GCC
            'math-68881.h',
            ])
        self.skip_dirs |= set(['
            # Better not create a merge nightmare for the GNAT folks.
            'ada',

            # Handled separately.
            'testsuite',
            ])
        self.skip_extensions |= set(['
            # Maintained by the translation project.
            '.po',

            # Automatically-generated.
            '.pot',
            ])
        self.fossilised_files |= set(['
            # Old news won't be updated.
            'ONEWS',
            ])

class TestsuiteFilter(GenericFilter):
    def __init__(self):
GenericFilter.__init__(self)

self.skip_extensions |= set([
    # Don't change the tests, which could be woend by anyone.
    '.c',
    '.C',
    '.cc',
    '.h',
    '.hs',
    '.',
    '.f90',
    '.go',
    '.inc',
    '.java',
])

def skip_file(self, dir, filename):
    # g++.niklas/README contains historical copyright information
    # and isn't updated.
    if filename == 'README' and os.path.basename(dir) == 'g++.niklas':
        return True
    # Similarly params/README.
    if filename == 'README' and os.path.basename(dir) == 'params':
        return True
    return GenericFilter.skip_file(self, dir, filename)

class LibCppFilter(GenericFilter):
    def __init__(self):
        GenericFilter.__init__(self)

        self.skip_extensions |= set([
            # Maintained by the translation project.
            '.po',

            # Automatically-generated.
            '.pot',
        ])

class LibGCCFilter(GenericFilter):
    def __init__(self):
        GenericFilter.__init__(self)

        self.skip_dirs |= set([
            # Imported from GLIBC.
            'soft-fp',
        ])

class LibStdCxxFilter(GenericFilter):
def __init__ (self):
    GenericFilter.__init__ (self)

    self.skip_files |= set (
        # Contains no copyright of its own, but quotes the GPL.
        'intro.xml',
    )

    self.skip_dirs |= set (
        # Contains automatically-generated sources.
        'html',

        # The testsuite data files shouldn't be changed.
        'data',

        # Contains imported images
        'images',
    )

    self.own_files |= set (
        # Contains markup around the copyright owner.
        'spine.xml',
    )

def get_line_filter (self, dir, filename):
    if filename == 'boost_concept_check.h':
        return re.compile ('// \(C\) Copyright Jeremy Siek')
    return GenericFilter.get_line_filter (self, dir, filename)

class GCCCopyright (Copyright):
    def __init__ (self, errors):
        Copyright.__init__ (self, errors)

        canon_fsf = 'Free Software Foundation, Inc.'
        self.add_package_author ('Free Software Foundation', canon_fsf)
        self.add_package_author ('Free Software Foundation.', canon_fsf)
        self.add_package_author ('Free Software Foundation Inc.', canon_fsf)
        self.add_package_author ('Free Software Foundation, Inc.', canon_fsf)
        self.add_package_author ('The Free Software Foundation', canon_fsf)
        self.add_package_author ('The Free Software Foundation, Inc.', canon_fsf)
        self.add_package_author ('Software Foundation, Inc.', canon_fsf)
        self.add_package_author ('ARM')
        self.add_external_author ('AdaCore')
        self.add_external_author ('Ami Tavory and Vladimir Dreizin, IBM-HRL.')
        self.add_external_author ('Cavium Networks.')
        self.add_external_author ('Faraday Technology Corp.')
self.add_external_author('Florida State University')
self.add_external_author('Greg Colvin and Beman Dawes.')
self.add_external_author('Hewlett-Packard Company')
self.add_external_author('Intel Corporation')
self.add_external_author('Information Technology Industry Council.')
self.add_external_author('James Theiler, Brian Gough')
self.add_external_author('Makoto Matsumoto and Takuji Nishimura,')
self.add_external_author('National Research Council of Canada.')
self.add_external_author('NVIDIA Corporation')
self.add_external_author('Peter Dimov and Multi Media Ltd.')
self.add_external_author('Peter Dimov')
self.add_external_author('Pipeline Associates, Inc.')
self.add_external_author('Regents of the University of California.')
self.add_external_author('Silicon Graphics Computer Systems, Inc.')
self.add_external_author('Silicon Graphics')
self.add_external_author('Stephen L. Moshier')
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self.add_external_author('The Go Authors.')
self.add_external_author('The Regents of the University of California.')
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class GCCCmdLine (CmdLine):
    def __init__ (self):
        CmdLine.__init__ (self, GCCCopyright)

        self.add_dir ('.', TopLevelFilter())
        # boehm-gc is imported from upstream.
        self.add_dir ('config', ConfigFilter())
        # contrib isn't really part of GCC.
        self.add_dir ('fixincludes')
        self.add_dir ('gcc', GCCFilter())
        self.add_dir (os.path.join ('gcc', 'testsuite'), TestsuiteFilter())
        self.add_dir ('gnattools')
        self.add_dir ('gotools')
        self.add_dir ('include')
        # intl is imported from upstream.
        self.add_dir ('libada')
        self.add_dir ('libatomic')
        self.add_dir ('libbacktrace')
        self.add_dir ('libcc1')
        # libcilk is imported from upstream.
        self.add_dir ('libc', LibCppFilter())
        self.add_dir ('libdecnumber')
        # libffi is imported from upstream.
        self.add_dir ('libgcc', LibGCCFilter())
self.add_dir('libgfortran')
# libgo is imported from upstream.
self.add_dir('libgomp')
self.add_dir('libhsail-rt')
self.add_dir('libiberty')
self.add_dir('libitm')
self.add_dir('libobjc')
# liboffloadmic is imported from upstream.
self.add_dir('libquadmath')
# libsanitizer is imported from upstream.
self.add_dir('libssp')
self.add_dir('libstdc++-v3', LibStdCxxFilter())
self.add_dir('libvtv')
self.add_dir('lto-plugin')
# maintainer-scripts maintainer-scripts
# zlib is imported from upstream.

self.default_dirs = ['gcc',
                     'include',
                     'libada',
                     'libatomic',
                     'libbacktrace',
                     'libcc1',
                     'libcpp',
                     'libdecmumber',
                     'libgcc',
                     'libgfortran',
                     'libgomp',
                     'libhsail-rt',
                     'libiberty',
                     'libitm',
                     'libobjc',
                     'libssp',
                     'libstdc++-v3',
                     'libvtv',
                     'lto-plugin',
                     ]

GCCCmdLine().main()
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1.621 ubuntu-advantage-tools 17
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1.625 ncurses 6.0+20161126 1+deb9u2

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1.627 newt 0.52.20 1ubuntu1

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1.641 redux-thunk 2.3.0
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1.642 source-map-support 0.5.19

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1.643 libfile-fcntllock-perl 0.22-3build2

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=head1 NAME

File::FcntlLock - File locking with L<fcntl(2)>

This text also documents the following sub-packages:

=over 2

=item File::FcntlLock::XS

=item File::FcntlLock::Pure

=item File::FcntlLock::Inline

=back

=head1 SYNOPSIS

use File::FcntlLock;

my $fs = new File::FcntlLock;
$fs->l_type( F_RDLCK );
$fs->l_whence( SEEK_CUR );
$fs->l_start( 100 );
$fs->l_len( 123 );
open my $fh, '<', 'file_name' or die "Can't open file: "$!
";
$fs->lock( $fh, F_SETLK )
    or print "Locking failed: " . $fs->error . "\n";
$fs->l_type( F_UNLCK );
$fs->lock( $fh, F_SETLK )
    or print "Unlocking failed: " . $fs->error . "\n";

=head1 DESCRIPTION

File locking in Perl is usually done using the C<flock> function. Unfortunately, this only allows locks on whole files and is often implemented in terms of the L<flock(2)> system function which has some shortcomings (especially concerning locks on remotely mounted file systems) and slightly different behaviour than L<fcntl(2)>. Using this module file locking via L<fcntl(2)> can be done (obviously, this restricts the use of the module to systems that have a L<fcntl(2)> system call). Before a file (or parts of a file) can be locked, an object simulating a flock structure, containing information in a binary format to be passed to L<fcntl(2)> for locking requests, must be created and its properties set. Afterwards, by calling the L<lock()> method a lock can be set and removed or it can be determined if and which process currently holds the lock.

File::FcntlLock (or its alias File::FcntlLock::XS) uses a shared library, build during installation, to call the L<fcntl(2)> system function directly. If this is unsuitable there are two alternatives, File::FcntlLock::Pure and File::FcntlLock::Inline. Both call the Perl C<fcntl> function instead and use Perl code to assemble and disassemble the structure. For this at some time the (system-dependent) binary layout of the flock structure must have been determined via a program written in C. The difference between File::FcntlLock::Pure and File::FcntlLock::Inline is that for the former this happened when the package is installed while for the latter it is done each time the package is loaded (e.g., with C<use>). Thus, for File::FcntlLock::Inline to work a C compiler must be available. There are some minor differences in the functionality and the behaviour on passing the method for locking invalid arguments to be described below.

=head2 Creating objects

=over 4

=item C<new()>

To create a new object, representing a flock structure, call L<new()>:
$fs = new File::FcntlLock;

The object has a number of properties, reflecting the members of the flock structure to be passed to L<fcntl(2)> (see below). Per default on object creation the L<l_type> property is set to C<F_RDLCK>, L<l_whence> to C<SEEK_SET>, and both L<l_start> and L<l_len> to 0, i.e., the settings for a read lock on the whole file.

These defaults can be overruled by passing the L<new()> method a set of key-value pairs to initialize the objects properties, e.g. use

$fs = new File::FcntlLock( l_type => F_WRLCK, l_whence => SEEK_SET, l_start => 0, l_len => 100 );

if you intend to obtain a write lock for the first 100 bytes of a file.

=back

=head2 Object properties

Once the object simulating the flock structure has been created the following methods allow to query and, in most cases, to also modify its properties.

=over 4

=item C<l_type()>

If called without an argument the method returns the current setting of the lock type, otherwise the lock type is set to the argument's value which must be either C<F_RDLCK>, C<F_WRLCK> or C<F_UNLCK> (for read lock, write lock or unlock).

=item C<l_whence()>

This method sets, when called with an argument, the L<l_whence> property of the flock object, determining if the L<l_start> value is relative to the start of the file, to the current position in the file or to the end of the file. These values are C<SEEK_SET>, C<SEEK_CUR> and C<SEEK_END> (also see the man page for L<seek(2)>). If called with no argument the current value of the property is returned.

=item C<l_start()>


Queries or sets the start position (offset) of the lock in the file according to the mode selected by the \texttt{L\_whence} member. See also the man page for \texttt{L\_lseek(2)}.

\item \texttt{C\_l\_len()}

Queries or sets the length of the region (in bytes) in the file to be locked. A value of 0 is interpreted to mean a lock, starting at \texttt{C\_l\_start}, to the end of the file. E.g., a lock obtained with \texttt{L\_l\_whence} set to \texttt{C\_SEEK\_SET} and both \texttt{L\_l\_start} and \texttt{L\_l\_len} set to 0 locks the complete file.

According to SUSv3 support for negative values for \texttt{L\_l\_len} are permitted, resulting in a lock ranging from \texttt{C\_l\_start+L\_len} up to and including \texttt{C\_l\_start-1}. But not all systems support negative values for \texttt{L\_l\_len} and will return an error when you try to obtain such a lock, so please read the \texttt{L\_fcntl(2)} man page of the system carefully for details.

\item \texttt{C\_l\_pid()}

If a call of the \texttt{L\_lock()} method with \texttt{C\_F\_GETLK} indicates that another process is holding the lock (in which case the \texttt{L\_l\_type} property will be either \texttt{C\_F\_WRLCK} or \texttt{C\_F\_RDLCK}) a call of the \texttt{L\_l\_pid()} method returns the PID of the process holding the lock. This method does not accept any arguments.

=head2 Locking

After having set up the object representing a flock structure one can then try to obtain a lock, release it or determine the current holder of the lock by invoking the \texttt{L\_lock()} method:

\item \texttt{C\_lock()}

This method expects two arguments. The first one is a file handle (or typeglob). File::FcntlLock, and thus File::FcntlLock::XS (B\<but neither\> File::FcntlLock::Pure B\<nor\> File::FcntlLock::Inline), also accepts a "raw" integer file descriptor. The second argument is a flag indicating the action to be taken. So call it as in

\$fs\->lock( \$fh, \texttt{F\_SETLK} );
There are three values that can be used as the second argument:

=over 4

=item C<F_SETLK>

With C<F_SETLK> the L<lock()> method tries to obtain a lock (when L<l_type> is set to either C<F_WRLCK> or C<F_RDLCK>) or releases it (if L<l_type> is set to C<F_UNLCK>). If an attempt is made to obtain a lock but a lock is already being held by some other process the method returns C<undef> and C<errno> is set to C<EACCESS> or C<EAGAIN> (please see the the man page for L<fcntl(2)> for more details).

=item C<F_SETLKW>

is similar to C<F_SETLK>, but instead of returning an error if the lock can't be obtained immediately it puts the calling process to sleep, i.e., it blocks, until the lock is obtained at some later time. If a signal is received while waiting for the lock the method returns C<undef> and C<errno> is set to C<EINTR>.

=item C<F_GETLK>

With C<F_GETLK> the L<lock()> method determines if and which process currently is holding the lock. If there's no other lock the L<l_type> property will be set to C<F_UNLCK>. Otherwise the flock structure object is set to the values that would prevent us from obtaining a lock. There may be several processes that keep us from getting a lock, including some that themselves are blocked waiting to obtain a lock. C<F_GETLK> will only make details of one of these processes visible, and one has no control over which process this is.

=back

On success the L<lock()> method returns the string "0 but true", i.e., a value that is true in boolean but 0 in numeric context. If the method fails (as indicated by an C<undef> return value) you can either immediately evaluate the error number (using $!, $ERRNO or $OS_ERROR) or check for it via the methods discussed below at some later time.

=back

=head2 Error handling

There are minor differences between File::FcntlLock on the one hand...
and File::FcntlLock::Pure and File::FcntlLock::Inline on the other, due to the first calling the system function L<fcntl(2)> directly while the latter two invoke the Perl C<fcntl> function. Perl's C<fcntl> function already returns a Perl error on some types of invalid arguments. In contrast File::FcntlLock passes them on to the L<fcntl(2)> system call and then returns the systems response to the caller.

There are three methods for obtaining information about the reason the a call of the L<lock()> method failed:

=over 4
=item C<lock_errno()>
Returns the C<errno> error number from the latest call of L<lock()>.
If the last call did not result in an error C<undef> is returned.

=item C<error()>
Returns a short description of the error that happened during the latest call of L<lock()>.
Please take the messages with a grain of salt, they represent what SUSv3 (IEEE 1003.1-2001) and the Linux, TRUE64, OpenBSD3 and Solaris8 man pages tell what the error numbers mean.
There could be differences (and additional error numbers) on other systems. If there was no error the method returns C<undef>.

=item C<system_error()>
While the L<error()> method tries to return a string with some direct relevance to the locking operation (i.e., "File or segment already locked by other process(es)" instead of "Permission denied") this method returns the "normal" system error message associated with C<errno>. The method returns C<undef> if there was no error.

=back

=head2 EXPORT

The package exports the following constants:

=over 2
=item F_GETLK F_SETLK F_SETLKW
=item F_RDLCK F_WRLCK F_UNLCK
Obviously, this module requires that there's a `fcntl(2)` system call. Note also that under certain circumstances the File::FcntlLock::Pure and File::FcntlLock::Inline modules may not have been installed. This happens on 32-bit systems that use 64-bit integers in their flock structure but where the installed Perl version doesn't support the 'q' format for its `pack` and `unpack` functions.

Thanks to Mark Jason Dominus and Benjamin Goldberg for helpful discussions, code examples and encouragement. Glenn Herteg pointed out several problems and also helped improve the documentation. Julian Moreno Patino helped correcting the documentation and pointed out problems arising on GNU Hurd which seems to have only very rudimentary support for locking with `fcntl(2)`. Niko Tyni and Guillem Jover encouraged and helped with implementing alternatives to an XS-only approach which hopefully will make the module more useful under certain circumstances.

Jens Thoms Toerring <jt@toerring.de>

L/perl(1), L/fcntl(2), L/lseek(2).

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Found in path(s):
* /opt/ws_local/PERMITS_SQL/1017917869_1591373751.5/0/libfile-fcntllock-perl-0.22-orig-tar-gz/File-FcntlLock-0.22/lib/File/FcntlLock.pod

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File::FcntlLock

File::FcntlLock is a module to do file locking in an object oriented fashion using the fcntl(2) system call. This allows locks on parts of a file as well as on the whole file and overcomes some known problems with flock(2), on which Perl's flock() function is based per default.

Since version 0.15 there three slightly different ways this can be done with using this package. Per default a method is used where a shared library build creation of the package is called from the Perl code to invoke the fcntl(2) system function. This method can also be used by employing the File::FcntlLock::XS module (which basically an alias for File::FcntlLock). Two further methods instead use calls of the Perl fcntl() function. In both cases at some time a C program must be run to determine the binary layout of the C flock struct used by fcntl() for locking. For the one package, File::FcntlLock::Pure, this is done while making the package. For the other, File::FcntlLock::Inline, this happens each time the package is loaded (e.g. with the 'use' function). Of course, for this to work a C compiler must be installed on the system!

Unfortunately, there seem to be a few 32-bit systems where the off_t type, used in the flock struct, is a 64-bit integer but which use a Perl version that hasn't 64-bit support enabled. On these systems the 'q' format for Perl's pack() and unpack() function isn't available and thus a "pure Perl" approach is thus not possible. On such systems the File::FcntlLock::Pure and File::FcntlLock::Inline modules won't get installed.

PORTABILITY

To use the module the system must support the fcntl() system call which probably will restrict its use to POSIX compliant systems.
INSTALLATION

To install this module type the following:

perl Makefile.PL
make
make test
make install

DEPENDENCIES

The module requires the following other modules:

POSIX, Errno, Carp, Exporter, DynaLoader

To install the module(s) a C compiler must be available and the system must support the use of shared libraries (or DLLs). For File::FcntlFlock::Inline the C compiler must also be available when the module is used. The installation of the File::FcntlLock::Pure and File::FcntlLock::Inline modules require that the Perl pack() and unpack() function support the 'q' format if the off_t type on the system is 64-bit wide.

ACKNOWLEDGMENTS

Thanks to Mark Jason Dominus and Benjamin Goldberg for helpful discussions, code examples and encouragement. Glenn Herteg pointed out several problems and also helped improve the documentation. Julian Moreno Patino helped correcting the documentation and pointed out problems arising on GNU Hurd (which seems to have only very rudimentary support for locking with fcntl(2), at least at that time). Niko Tyni and Guillem Jover encouraged and helped with implementing alternatives to a XS-only approach which hopefully will make the module more useful under certain circumstances.

AUTHOR

Jens Thoms Toerring <jt@toerring.de>

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A. HISTORY OF THE SOFTWARE
==========================

Python was created in the early 1990s by Guido van Rossum at Stichting
Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands
as a successor of a language called ABC. Guido remains Python’s
principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for
National Research Initiatives (CNRI, see http://www.cnri.reston.va.us)
in Reston, Virginia where he released several versions of the
software.

In May 2000, Guido and the Python core development team moved to
BeOpen.com to form the BeOpen PythonLabs team. In October of the same
year, the PythonLabs team moved to Digital Creations, which became
Zope Corporation. In 2001, the Python Software Foundation (PSF, see
https://www.python.org/psf/) was formed, a non-profit organization
created specifically to own Python-related Intellectual Property.
Zope Corporation was a sponsoring member of the PSF.

All Python releases are Open Source (see http://www.opensource.org for
the Open Source Definition). Historically, most, but not all, Python
releases have also been GPL-compatible; the table below summarizes
the various releases.

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(1) GPL-compatible doesn't mean that we're distributing Python under the GPL. All Python licenses, unlike the GPL, let you distribute a modified version without making your changes open source. The GPL-compatible licenses make it possible to combine Python with other software that is released under the GPL; the others don't.

(2) According to Richard Stallman, 1.6.1 is not GPL-compatible, because its license has a choice of law clause. According to CNRI, however, Stallman's lawyer has told CNRI's lawyer that 1.6.1 is "not incompatible" with the GPL.

Thanks to the many outside volunteers who have worked under Guido's direction to make these releases possible.

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* /opt/cola/permits/1000740444_1646171493.64/0/java-support-7-3-0-sources.jar/net/shibboleth/utilities/java/support/security/DataExpiredException.java
* /opt/cola/permits/1000740444_1646171493.64/0/java-support-7-3-0-sources.jar/net/shibboleth/utilities/java/support/collection/LazyMap.java
* /opt/cola/permits/1000740444_1646171493.64/0/java-support-7-3-0-sources.jar/net/shibboleth/utilities/java/support/net/CookieBufferingFilter.java
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* /opt/cola/permits/1000740444_1646171493.64/0/java-support-7-3-0-sources.jar/net/shibboleth/utilities/java/support/security/DataSealerKeyStrategy.java
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* /opt/cola/permits/1000740444_1646171493.64/0/java-support-7-3-0-sources.jar/net/shibboleth/utilities/java/support/velocity/Template.java
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* /opt/cola/permits/1000740444_1646171493.64/0/java-support-7-3-0-sources-jar/net/shibboleth/utilities/java/support/xml/DOMTypeSupport.java
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* /opt/cola/permits/1000740444_1646171493.64/0/java-support-7-3-0-sources-jar/net/shibboleth/utilities/java/support/net/MediaTypeSupport.java
* /opt/cola/permits/1000740444_1646171493.64/0/java-support-7-3-0-sources-jar/net/shibboleth/utilities/java/support/annotation/constraint/NotLive.java
* /opt/cola/permits/1000740444_1646171493.64/0/java-support-7-3-0-sources-jar/net/shibboleth/utilities/java/support/security/BasicKeystoreKeyStrategy.java
* /opt/cola/permits/1000740444_1646171493.64/0/java-support-7-3-0-sources-jar/net/shibboleth/utilities/java/support/collection/IterableSupport.java
* /opt/cola/permits/1000740444_1646171493.64/0/java-support-7-3-0-sources-jar/net/shibboleth/utilities/java/support/logic/AllMatchPredicate.java
* /opt/cola/permits/1000740444_1646171493.64/0/java-support-7-3-0-sources-jar/net/shibboleth/utilities/java/support/component/DestructableComponent.java
* /opt/cola/permits/1000740444_1646171493.64/0/java-support-7-3-0-sources-jar/net/shibboleth/utilities/java/support/primitive/StringSupport.java
* /opt/cola/permits/1000740444_1646171493.64/0/java-support-7-3-0-sources-jar/net/shibboleth/utilities/java/support/resource/package-info.java
* /opt/cola/permits/1000740444_1646171493.64/0/java-support-7-3-0-sources-jar/net/shibboleth/utilities/java/support/net/ThreadLocalHttpServletRequestProxy.java
* /opt/cola/permits/1000740444_1646171493.64/0/java-support-7-3-0-sources-jar/net/shibboleth/utilities/java/support/httpclient/FileCachingHttpClientBuilder.java
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 * /opt/cola/permits/1000740444_1646171493.64/0/java-support-7-3-0-sources-jar/net/shibboleth/utilities/java/support/java-support-7-3-0-sources-jar/net/shibboleth/utilities/java/support/httpclient/TLSSocketFactoryBuilder.java

1.654 zlib 1.2.7-18.amzn2
1.654.1 Available under license:

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1.655 properties 1.8.1

1.655.1 Available under license:

goproperties - properties file decoder for Go

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1.656 systemd 237-3ubuntu10.45

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 * Set the attributes for the node by modifying the provided map.
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 * This allows to change or even removeIndex default attributes. With great power comes great responsibility.
 * <p>
 * The attribute key and values will be escaped (preserving character entities), so don't escape them here,
 * otherwise they will be double-escaped.
 * <p>
 * Also used to get the id attribute for the node. Specifically for heading nodes. When the part parameter
 * is AttributablePart.ID only need to check and provide an id attribute.
 * <p>
 * When part is AttributablePart.LINK then attributes are being requested for a Link or Image link,
 * link status after link resolution will be found under the Attribute.LINK_STATUS.
 * Core defines LinkStatus.UNKNOWN,LinkStatus.VALID,LinkStatus.NOT_FOUND. Extensions can define
 * more.
 * <p>
 * AttributablePart.NODE is a generic placeholder when the node did not provide a specific part for attribution.
 * *
 * @param node       the node to set attributes for
 * @param part       attributes for the specific part of the node being generated, Core defines AttributablePart.LINK,
 * @param attributes the attributes, with any default attributes already set in the map
 */

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1.658 openssl 1.1.1d
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jar/org/opensaml/profile/context/AccessControlContext.java
* /opt/cola/permits/1000740435_1646171490.52/0/opensaml-profile-api-3-3-0-sources-
jar/org/opensaml/profile/logic/MessageContextPredicateAdapter.java
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1.665 ulikunitz-xz 0.5.7
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copyright main

import (  
  "bufio"
  "bytes"
  "flag"
  "fmt"
  "io"
  "log"
  "os"
  "path/filepath"
  "strings"
)

const crUsageString = `xb copyright [options] <path>....

The xb copyright command adds a copyright remark to all go files below path.

  -h  prints this message and exits
`.

func crUsage(w io.Writer) {  
  fmt.Fprintf(w, crUsageString)
}

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`.

func goComment(text string) string {  
  buf := new(bytes.Buffer)
  scanner := bufio.NewScanner(strings.NewReader(text))
  var err error
  for scanner.Scan() {  
    s := strings.TrimSpace(scanner.Text())
    buf.WriteString(s + ` `)
  }
  return buf.String()```
if len(s) == 0 {
    continue
}
if _, err = fmt.Fprintln(buf, "//", s); err != nil {
    panic(err)
}
if err = scanner.Err(); err != nil {
    panic(err)
}
if _, err = fmt.Fprintln(buf); err != nil {
    panic(err)
}
return buf.String()
}

var goCopyright = goComment(copyrightText)

func addCopyright(path string) (err error) {
    log.Printf("adding copyright to %s", path)
    src, err := os.Open(path)
    if err != nil {
        return err
    }
    defer func() {
        cerr := src.Close()
        if cerr != nil && err == nil {
            err = cerr
        }
    }()
    newPath := path + ".new"
    dst, err := os.Create(newPath)
    if err != nil {
        return err
    }
    defer func() {
        cerr := dst.Close()
        if cerr != nil && err == nil {
            err = cerr
        }
    }()
    out := bufio.NewWriter(dst)
    fmt.Fprintln(out, goCopyright)
    scanner := bufio.NewScanner(src)
    line := 0
    del := false
    for scanner.Scan() {
        line++
txt := scanner.Text()
if line == 1 && strings.Contains(txt, "Copyright") {
    del = true
    continue
}
if del {
    s := strings.TrimSpace(txt)
    if len(s) == 0 {
        del = false
    }
    continue
}
fmt.Fprintln(out, txt)
}
if err = scanner.Err(); err != nil {
    return err
}
if err = out.Flush(); err != nil {
    return
}
er = os.Rename(newPath, path)
return
}

func walkCopyrights(path string, info os.FileInfo, err error) error {
    if err != nil {
        return err
    }
    if info.IsDir() {
        return nil
    }
    if !strings.HasSuffix(info.Name(), ".go") {
        return nil
    }
    return addCopyright(path)
}

func copyright() {
    cmdName := os.Args[0]
    log.SetPrefix(fmt.Sprintf("%s: ", cmdName))
    log.SetFlags(0)
    flag.CommandLine = flag.NewFlagSet(cmdName, flag.ExitOnError)
    flag.Usage = func() { crUsage(os.Stderr); os.Exit(1) }
    help := flag.Bool("h", false, "")
    flag.Parse()
if *help {
    crUsage(os.Stdout)
    os.Exit(0)
}

for _, path := range flag.Args() {
    fi, err := os.Stat(path)
    if err != nil {
        log.Print(err)
        continue
    }
    if !fi.IsDir() {
        log.Printf("%s is not a directory", path)
        continue
    }
    if err = filepath.Walk(path, walkCopyrights); err != nil {
        log.Fatalf("%s error %s", path, err)
    }
}

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For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

Although the Lesser General Public License is Less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.
The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

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A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification").

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

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2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) The modified work must itself be a software library.

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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

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Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file
that is part of the Library, the object code for the work may be a
derivative work of the Library even though the source code is not.
Whether this is true is especially significant if the work can be
linked without the Library, or if the work is itself a library. The
threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data
structure layouts and accessors, and small macros and small inline
functions (ten lines or less in length), then the use of the object
file is unrestricted, regardless of whether it is legally a derivative
work. (Executables containing this object code plus portions of the
Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may
distribute the object code for the work under the terms of Section 6.
Any executables containing that work also fall under Section 6,
whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or
link a “work that uses the Library” with the Library to produce a
work containing portions of the Library, and distribute that work
under terms of your choice, provided that the terms permit
modification of the work for the customer's own use and reverse
engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the
Library is used in it and that the Library and its use are covered by
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during execution displays copyright notices, you must include the
copyright notice for the Library among them, as well as a reference
directing the user to the copy of this License. Also, you must do one
of these things:

a) Accompany the work with the complete corresponding
machine-readable source code for the Library including whatever
changes were used in the work (which must be distributed under
Sections 1 and 2 above); and, if the work is an executable linked
with the Library, with the complete machine-readable “work that
uses the Library”, as object code and/or source code, so that the
user can modify the Library and then relink to produce a modified
executable containing the modified Library. (It is understood
that the user who changes the contents of definitions files in the
Library will not necessarily be able to recompile the application
to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the
Library. A suitable mechanism is one that (1) uses at run time a
copy of the library already present on the user's computer system,
rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

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The "source code" for a work means the preferred form of the work for making modifications to it. "Object code" means any non-source form of a work.

A "Standard Interface" means an interface that either is an official standard defined by a recognized standards body, or, in the case of interfaces specified for a particular programming language, one that is widely used among developers working in that language.

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b) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by a written offer, valid for at least three years and valid for as long as you offer spare parts or customer support for that product model, to give anyone who possesses the object code either (1) a copy of the Corresponding Source for all the software in the product that is covered by this License, on a durable physical medium customarily used for software interchange, for a price no more than your reasonable cost of physically performing this conveying of source, or (2) access to copy the Corresponding Source from a network server at no charge.

c) Convey individual copies of the object code with a copy of the written offer to provide the Corresponding Source. This alternative is allowed only occasionally and noncommercially, and only if you received the object code with such an offer, in accord with subsection 6b.

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Version: GnuPG v1.0.7 (GNU/Linux)
iD8DBQFE85cgac9Frj/CIlPImuJAKCFgi4W0UOH8iUn+SV6PBHRF3BnLgCcDqqCZoktk0bTHfwaas5TtxQbScw=
=N/w/
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Version: GnuPG v1.0.7 (GNU/Linux)
iD8DBQFE85cgac9Frj/CIlPImuJAKCFgi4W0UOH8iUn+SV6PBHRF3BnLgCcDqqCZoktk0bTHfwaas5TtxQbScw=
=N/w/
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E-Mail: simone.bordet@gmail.com
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Version: GnuPG v1.4.3 (GNU/Linux)

iD8DBQFFoniQJVhiFus9dGQRAmJmAjwL5yIloohhVQHICsparvJHMQuwqwCgiZFY
LBDVaad1bJ1v1EHY901kPcg=
=6rqm
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Version: GnuPG v1.4.10 (GNU/Linux)
iQEcBAEBAgAGBQJQBb4tAAoJEMHiJbBmFG91HDcH/2nqDPuPzWfrBiXEdLF6tJl
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=gAqN
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Version: GnuPG v1.4.1 (Darwin)
iD8DBQFD37/4dL6IZr4c+6kRAtsIAJ41td3l40M6sIMfJfT0dT1bxwCdGgWv
8sfMxEDZquIqhVbfZU2c76U=
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Version: GnuPG v1.4.4 (MingW32)
iD8DBQFEt1ZxHR/ESK2w6H8RApbOAJ9c1eooNr2oN59WZVitJExGjjuvKgCfaKji6etDJ6AUj0jTuSIS9hUsWMQ=
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Mailing Address: 4676 Admiralty Way, Suite 520
               Marina Del Rey, CA 90292

Point of Contact:
Full name: Gordon King
E-Mail:    gordon.king@simulalabs.com
Fax:       +1 800 822 0471

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<th>Date added</th>
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<tr>
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<td>12 September 2006</td>
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* org.eclipse.jetty.orbit:org.eclipse.jdt.core

The following artifacts are EPL and ASL2.
* org.eclipse.jetty.orbit:javax.security.auth.message

The following artifacts are EPL and CDDL 1.0.
* org.eclipse.jetty.orbit:javax.mail.glassfish

-----

Oracle

The following artifacts are CDDL + GPLv2 with classpath exception.
https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

* javax.servlet:javax.servlet-api
* javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api

-----

Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following artifacts may be included in the distribution or downloaded when ALPN module is selected.

* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions.
http://openjdk.java.net/legal/gplv2+ce.html
-------

OW2

The following artifacts are licensed by the OW2 Foundation according to the terms of http://asm.ow2.org/license.html

org.ow2.asm:asm-commons
org.ow2.asm:asm

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Apache

The following artifacts are ASL2 licensed.

org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl

-------

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The following artifacts are ASL2 licensed. Based on selected classes from following Apache Tomcat jars, all ASL2 licensed.

org.mortbay.jasper:apache-jsp
org.apache.tomcat:tomcat-jasper
org.apache.tomcat:tomcat-juli
org.apache.tomcat:tomcat-jsp-api
org.apache.tomcat:tomcat-el-api
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-el-api

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https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html
org.eclipse.jetty.toolchain:jetty-schemas

------
Assorted

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St, Fifth Floor, Boston, MA 02110-1301 USA

1.677 java-classpath 0.2.3
1.677.1 Available under license :
No license file was found, but licenses were detected in source scan.

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Found in path(s):
* /opt/ws_local/PERMITS_SQL/1021346510_1594236968.69/0/java-classpath-0-2-3-sources-
jar/clojure/java/classpath.clj

1.678 python-defaults 3.6.7 1~18.04

1.679 pycrypto 2.6.1-8ubuntu2
1.679.1 Available under license :
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~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~

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PyCrypto Code Submission Requirements - Rev. C

Last updated: 2009-02-28

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=== EOF ===

1.680 simple-get 4.0.0
1.680.1 Available under license :
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1.681 gobject-introspection 1.50.0-1+b1
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Whether this is true is especially significant if the work can be
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threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data
structure layouts and accessors, and small macros and small inline
functions (ten lines or less in length), then the use of the object
file is unrestricted, regardless of whether it is legally a derivative
work. (Executables containing this object code plus portions of the
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Otherwise, if the work is a derivative of the Library, you may
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* /opt/cola/permits/1199743872_1630577637.85/0/jnr-a64asm-1-0-0-sources-4.jar/jnr/a64asm/Assembler_A64.java
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jar/jnr/a64asm/SerializerIntrinsics_a64.java
* /opt/cola/permits/1199743872_1630577637.85/0/jnr-a64asm-1-0-0-sources-4-
  jar/jnr/a64asm/InstructionGroup.java
* /opt/cola/permits/1199743872_1630577637.85/0/jnr-a64asm-1-0-0-sources-4-
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  jar/jnr/a64asm/EXTEND_ENUM.java
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  jar/jnr/a64asm/InstructionDescription.java
* /opt/cola/permits/1199743872_1630577637.85/0/jnr-a64asm-1-0-0-sources-4-
  jar/jnr/a64asm/Logger.java
* /opt/cola/permits/1199743872_1630577637.85/0/jnr-a64asm-1-0-0-sources-4-
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* /opt/cola/permits/1199743872_1630577637.85/0/jnr-a64asm-1-0-0-sources-4-
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  jar/jnr/a64asm/Label.java
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d) If a facility in the modified Library refers to a function or a
table of data to be supplied by an application program that uses
the facility, other than as an argument passed when the facility
is invoked, then you must make a good faith effort to ensure that,
in the event an application does not supply such function or
table, the facility still operates, and performs whatever part of
its purpose remains meaningful.

(For example, a function in a library to compute square roots has
a purpose that is entirely well-defined independent of the
application. Therefore, Subsection 2d requires that any
application-supplied function or table used by this function must
be optional: if the application does not supply it, the square
root function must still compute square roots.)

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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

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When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.
If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

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b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at
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d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

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Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that companies distributing free software will individually obtain patent licenses, thus in effect transforming the program into proprietary software. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License, which was designed for utility programs. This license, the GNU Library General Public License, applies to certain designated libraries. This license is quite different from the ordinary one; be sure to read it in full, and don't assume that anything in it is the same as in the ordinary license.

The reason we have a separate public license for some libraries is that they blur the distinction we usually make between modifying or adding to a program and simply using it. Linking a program with a library, without changing the library, is in some sense simply using the library, and is
analogous to running a utility program or application program. However, in a textual and legal sense, the linked executable is a combined work, a derivative of the original library, and the ordinary General Public License treats it as such.

Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, while the latter only works together with the library.

Note that it is possible for a library to be covered by the ordinary General Public License rather than by this special one.

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0. This License Agreement applies to any software library which contains a notice placed by the copyright holder or other authorized party saying it may be distributed under the terms of this Library General Public License (also called "this License"). Each licensee is addressed as "you".

A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is
included without limitation in the term "modification".)

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

1. You may copy and distribute verbatim copies of the Library's complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) The modified work must itself be a software library.

b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.
(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany
it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also compile or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.
You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

c) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

d) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

7. You may place library facilities that are a work based on the
Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above,

b) Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

8. You may not copy, modify, sublicense, link with, or distribute the Library except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense, link with, or distribute the Library is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

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11. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Library at all. For example, if a patent
license would not permit royalty-free redistribution of the Library by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Library.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply, and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

12. If the distribution and/or use of the Library is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Library under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

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Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

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END OF TERMS AND CONDITIONS

Appendix: How to Apply These Terms to Your New Libraries

If you develop a new library, and you want it to be of the greatest possible use to the public, we recommend making it free software that everyone can redistribute and change. You can do so by permitting redistribution under these terms (or, alternatively, under the terms of the ordinary General Public License).

To apply these terms, attach the following notices to the library. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the library's name and a brief idea of what it does.>
Copyright (C) <year>  <name of author>

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License as published by the Free Software Foundation; either
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Library General Public License for more details.

You should have received a copy of the GNU Library General Public
License along with this library; if not, write to the Free
Software Foundation, Inc., 675 Mass Ave, Cambridge, MA 02139, USA.

Also add information on how to contact you by electronic and paper mail.

You should also get your employer (if you work as a programmer) or your
school, if any, to sign a "copyright disclaimer" for the library, if
necessary.  Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the
library `Frob' (a library for tweaking knobs) written by James Random Hacker.

<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

That's all there is to it!

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Version 3, 29 June 2007

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Preamble

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The licenses for most software and other practical works are designed
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the GNU General Public License is intended to guarantee your freedom to
share and change all versions of a program--to make sure it remains free
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any other work released this way by its authors.  You can apply it to
your programs, too.

When we speak of free software, we are referring to freedom, not
price.  Our General Public Licenses are designed to make sure that you
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them if you wish), that you receive source code or can get it if you
want it, that you can change the software or use pieces of it in new
free programs, and that you know you can do these things.

To protect your rights, we need to prevent others from denying you
these rights or asking you to surrender the rights. Therefore, you have
certain responsibilities if you distribute copies of the software, or if
you modify it: responsibilities to respect the freedom of others.

For example, if you distribute copies of such a program, whether
grats or for a fee, you must pass on to the recipients the same
freedoms that you received. You must make sure that they, too, receive
or can get the source code. And you must show them these terms so they
know their rights.

Developers that use the GNU GPL protect your rights with two steps:
(1) assert copyright on the software, and (2) offer you this License
giving you legal permission to copy, distribute and/or modify it.

For the developers' and authors' protection, the GPL clearly explains
that there is no warranty for this free software. For both users' and
authors' sake, the GPL requires that modified versions be marked as
changed, so that their problems will not be attributed erroneously to
authors of previous versions.

Some devices are designed to deny users access to install or run
modified versions of the software inside them, although the manufacturer
can do so. This is fundamentally incompatible with the aim of
protecting users' freedom to change the software. The systematic
pattern of such abuse occurs in the area of products for individuals to
use, which is precisely where it is most unacceptable. Therefore, we
have designed this version of the GPL to prohibit the practice for those
products. If such problems arise substantially in other domains, we
stand ready to extend this provision to those domains in future versions
of the GPL, as needed to protect the freedom of users.

Finally, every program is threatened constantly by software patents.
States should not allow patents to restrict development and use of
software on general-purpose computers, but in those that do, we wish to
avoid the special danger that patents applied to a free program could
make it effectively proprietary. To prevent this, the GPL assures that
patents cannot be used to render the program non-free.

The precise terms and conditions for copying, distribution and
modification follow.

TERMS AND CONDITIONS
0. Definitions.

"This License" refers to version 3 of the GNU General Public License.

"Copyright" also means copyright-like laws that apply to other kinds of works, such as semiconductor masks.

"The Program" refers to any copyrightable work licensed under this License. Each licensee is addressed as "you". "Licensees" and "recipients" may be individuals or organizations.

To "modify" a work means to copy from or adapt all or part of the work in a fashion requiring copyright permission, other than the making of an exact copy. The resulting work is called a "modified version" of the earlier work or a work "based on" the earlier work.

A "covered work" means either the unmodified Program or a work based on the Program.

To "propagate" a work means to do anything with it that, without permission, would make you directly or secondarily liable for infringement under applicable copyright law, except executing it on a computer or modifying a private copy. Propagation includes copying, distribution (with or without modification), making available to the public, and in some countries other activities as well.

To "convey" a work means any kind of propagation that enables other parties to make or receive copies. Mere interaction with a user through a computer network, with no transfer of a copy, is not conveying.

An interactive user interface displays "Appropriate Legal Notices" to the extent that it includes a convenient and prominently visible feature that (1) displays an appropriate copyright notice, and (2) tells the user that there is no warranty for the work (except to the extent that warranties are provided), that licensees may convey the work under this License, and how to view a copy of this License. If the interface presents a list of user commands or options, such as a menu, a prominent item in the list meets this criterion.


The "source code" for a work means the preferred form of the work for making modifications to it. "Object code" means any non-source form of a work.

A "Standard Interface" means an interface that either is an official standard defined by a recognized standards body, or, in the case of
interfaces specified for a particular programming language, one that is widely used among developers working in that language.

The "System Libraries" of an executable work include anything, other than the work as a whole, that (a) is included in the normal form of packaging a Major Component, but which is not part of that Major Component, and (b) serves only to enable use of the work with that Major Component, or to implement a Standard Interface for which an implementation is available to the public in source code form. A "Major Component", in this context, means a major essential component (kernel, window system, and so on) of the specific operating system (if any) on which the executable work runs, or a compiler used to produce the work, or an object code interpreter used to run it.

The "Corresponding Source" for a work in object code form means all the source code needed to generate, install, and (for an executable work) run the object code and to modify the work, including scripts to control those activities. However, it does not include the work's System Libraries, or general-purpose tools or generally available free programs which are used unmodified in performing those activities but which are not part of the work. For example, Corresponding Source includes interface definition files associated with source files for the work, and the source code for shared libraries and dynamically linked subprograms that the work is specifically designed to require, such as by intimate data communication or control flow between those subprograms and other parts of the work.

The Corresponding Source need not include anything that users can regenerate automatically from other parts of the Corresponding Source.

The Corresponding Source for a work in source code form is that same work.

2. Basic Permissions.

All rights granted under this License are granted for the term of copyright on the Program, and are irrevocable provided the stated conditions are met. This License explicitly affirms your unlimited permission to run the unmodified Program. The output from running a covered work is covered by this License only if the output, given its content, constitutes a covered work. This License acknowledges your rights of fair use or other equivalent, as provided by copyright law.

You may make, run and propagate covered works that you do not convey, without conditions so long as your license otherwise remains in force. You may convey covered works to others for the sole purpose of having them make modifications exclusively for you, or provide you
with facilities for running those works, provided that you comply with the terms of this License in conveying all material for which you do not control copyright. Those thus making or running the covered works for you must do so exclusively on your behalf, under your direction and control, on terms that prohibit them from making any copies of your copyrighted material outside their relationship with you.

Conveying under any other circumstances is permitted solely under the conditions stated below. Sublicensing is not allowed; section 10 makes it unnecessary.

3. Protecting Users' Legal Rights From Anti-Circumvention Law.

No covered work shall be deemed part of an effective technological measure under any applicable law fulfilling obligations under article 11 of the WIPO copyright treaty adopted on 20 December 1996, or similar laws prohibiting or restricting circumvention of such measures.

When you convey a covered work, you waive any legal power to forbid circumvention of technological measures to the extent such circumvention is effected by exercising rights under this License with respect to the covered work, and you disclaim any intention to limit operation or modification of the work as a means of enforcing, against the work's users, your or third parties' legal rights to forbid circumvention of technological measures.


You may convey verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice; keep intact all notices stating that this License and any non-permissive terms added in accord with section 7 apply to the code; keep intact all notices of the absence of any warranty; and give all recipients a copy of this License along with the Program.

You may charge any price or no price for each copy that you convey, and you may offer support or warranty protection for a fee.

5. Conveying Modified Source Versions.

You may convey a work based on the Program, or the modifications to produce it from the Program, in the form of source code under the terms of section 4, provided that you also meet all of these conditions:

a) The work must carry prominent notices stating that you modified it, and giving a relevant date.
b) The work must carry prominent notices stating that it is released under this License and any conditions added under section 7. This requirement modifies the requirement in section 4 to "keep intact all notices".

c) You must license the entire work, as a whole, under this License to anyone who comes into possession of a copy. This License will therefore apply, along with any applicable section 7 additional terms, to the whole of the work, and all its parts, regardless of how they are packaged. This License gives no permission to license the work in any other way, but it does not invalidate such permission if you have separately received it.

d) If the work has interactive user interfaces, each must display Appropriate Legal Notices; however, if the Program has interactive interfaces that do not display Appropriate Legal Notices, your work need not make them do so.

A compilation of a covered work with other separate and independent works, which are not by their nature extensions of the covered work, and which are not combined with it such as to form a larger program, in or on a volume of a storage or distribution medium, is called an "aggregate" if the compilation and its resulting copyright are not used to limit the access or legal rights of the compilation's users beyond what the individual works permit. Inclusion of a covered work in an aggregate does not cause this License to apply to the other parts of the aggregate.

6. Conveying Non-Source Forms.

You may convey a covered work in object code form under the terms of sections 4 and 5, provided that you also convey the machine-readable Corresponding Source under the terms of this License, in one of these ways:

a) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by the Corresponding Source fixed on a durable physical medium customarily used for software interchange.

b) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by a written offer, valid for at least three years and valid for as long as you offer spare parts or customer support for that product model, to give anyone who possesses the object code either (1) a copy of the Corresponding Source for all the software in the product that is covered by this License, on a durable physical
medium customarily used for software interchange, for a price no
more than your reasonable cost of physically performing this
conveying of source, or (2) access to copy the
Corresponding Source from a network server at no charge.

c) Convey individual copies of the object code with a copy of the
written offer to provide the Corresponding Source. This
alternative is allowed only occasionally and noncommercially, and
only if you received the object code with such an offer, in accord
with subsection 6b.

d) Convey the object code by offering access from a designated
place (gratis or for a charge), and offer equivalent access to the
Corresponding Source in the same way through the same place at no
further charge. You need not require recipients to copy the
Corresponding Source along with the object code. If the place to
copy the object code is a network server, the Corresponding Source
may be on a different server (operated by you or a third party)
that supports equivalent copying facilities, provided you maintain
clear directions next to the object code saying where to find the
Corresponding Source. Regardless of what server hosts the
Corresponding Source, you remain obligated to ensure that it is
available for as long as needed to satisfy these requirements.

e) Convey the object code using peer-to-peer transmission, provided
you inform other peers where the object code and Corresponding
Source of the work are being offered to the general public at no
charge under subsection 6d.

A separable portion of the object code, whose source code is excluded
from the Corresponding Source as a System Library, need not be
included in conveying the object code work.

A "User Product" is either (1) a "consumer product", which means any
tangible personal property which is normally used for personal, family,
or household purposes, or (2) anything designed or sold for incorporation
into a dwelling. In determining whether a product is a consumer product,
doubtful cases shall be resolved in favor of coverage. For a particular
product received by a particular user, "normally used" refers to a
typical or common use of that class of product, regardless of the status
of the particular user or of the way in which the particular user
actually uses, or expects or is expected to use, the product. A product
is a consumer product regardless of whether the product has substantial
commercial, industrial or non-consumer uses, unless such uses represent
the only significant mode of use of the product.

"Installation Information” for a User Product means any methods,
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1.699 icu 65

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## Commands to generate dependency files
GEN_DEPS.c=$(CC) -E -MM $(DEFS) $(CPPFLAGS)
GEN_DEPS.cc=$(CXX) -E -MM $(DEFS) $(CPPFLAGS)

## Flags for position independent code
SHAREDLIBCFLAGS = -fPIC
SHAREDLIBCXXFLAGS = -fPIC
SHAREDLIBCPPFLAGS = -DPIC

## Additional flags when building libraries and with threads
THREADSCPPFLAGS = -D_REENTRANT
LIBCPPFLAGS =

## Compiler switch to embed a runtime search path
LD_RPATH=
LD_RPATH_PRE=-Wl,-rpath,
## Compiler switch to embed a library name
LD_SONAME = -Wl,-soname -Wl,$(notdir $(MIDDLE_SO_TARGET))

## Shared library options
LD_SOOPTIONS= -Wl,-Bsymbolic

## Shared object suffix
SO = so

## Non-shared intermediate object suffix
STATIC_O = ao

## Compilation rules
%.$(STATIC_O): $(srcdir)/%.c
$(COMPILE.c) $(STATICCPPFLAGS) $(STATICCFLAGS) -o $@ $<
%.o: $(srcdir)/%.c
$(COMPILE.c) $(DYNAMICCPPFLAGS) $(DYNAMICCFLAGS) -o $@ $<
%.$(STATIC_O): $(srcdir)/%.cpp
$(COMPILE.cc) $(STATICCPPFLAGS) $(STATICCXXFLAGS) -o $@ $<
%.o: $(srcdir)/%.cpp
$(COMPILE.cc) $(DYNAMICCPPFLAGS) $(DYNAMICCXXFLAGS) -o $@ $<

## Dependency rules
%.d: $(srcdir)/%.c
@echo "generating dependency information for $<"
@$(SHELL) -ec "$\(GEN\_DEPS\_c\) $< \n | sed \"s/(\$\^\*\)\.o[ :]*/\1\.o $@ : /g\" > $@; \n | -s $@ ]\] || rm -f $@
%.d: $(srcdir)/%.cpp
@echo "generating dependency information for $<"
@$(SHELL) -ec "$\(GEN\_DEPS\_cc\) $< \n | sed \"s/(\$\^\*\)\.o[ :]*/\1\.o $@ : /g\" > $@; \n | -s $@ ]\] || rm -f $@

## Versioned libraries rules
%.$(SO).$(SO\_TARGET\_VERSION\_MAJOR): %.$(SO).$(SO\_TARGET\_VERSION)
$(RM) $@ && ln -s $(<F) $@
%.$(SO): %.$(SO).$(SO\_TARGET\_VERSION\_MAJOR)
$(RM) $@ && ln -s $(<F).$(SO).$(SO\_TARGET\_VERSION) $@

## Bind internal references
# LDflags that pkgdata will use
BIR_LDFLAGS= -Wl,-Bsymbolic
# Dependencies [i.e. map files] for the final library
BIR_DEPS=

## Remove shared library 's'
STATIC_PREFIX_WHEN_USED =
STATIC_PREFIX =

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1.703 python-service-identity 16.0.0-3.ph2

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1.707 libsepol 2.7-1

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1.709 python-s3transfer 0.1.12-1.amzn2.0.1

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generated_by: 'Module::Build version 0.3608'
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meta-spec:
url: http://module-build.sourceforge.net/META-spec-v1.4.html
version: 1.4
name: Module-Build
resources:
MailingList: mailto:module-build@perl.org
license: http://dev.perl.org/licenses/
repository: http://github.com/dagolden/module-build/
version: 3

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=head1 NAME
copyright.t

=head1 DESCRIPTION

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If the test fails, update at least one of README and perl.c so that they match reality.

Optionally you can pass the C<--now> option to check they are at the current year. This isn't checked by default, so that it doesn't fail for people working on older releases. It should be run before making a new release.

=cut

use strict;
use Config;
BEGIN { require './test.pl' } if ( $Config{usecrosscompile} ) { skip_all( "Not all files are available during cross-compilation" ); } my ($opt) = @ARGV;

my $readme_year = readme_year(); my $v_year = v_year();

# Check that both copyright dates are up-to-date, but only if requested, so # that tests still pass for people intentionally working on older versions:
if ($opt eq '--now')
{
    my $current_year = (gmtime)[5] + 1900;
    is $v_year, $current_year, 'perl -v copyright includes current year';
    is $readme_year, $current_year, 'README copyright includes current year';
}

# Otherwise simply check that the two copyright dates match each other:
else
{
    is $readme_year, $v_year, 'README and perl -v copyright dates match';
}

done_testing;

sub readme_year
# returns the latest copyright year from the top-level README file
{

    open my $readme, '<', '../README' or die "Opening README failed: $!";

    # The copyright message is the first paragraph:
    local $/ = "
    my $copyright_msg = <$readme>;

    my ($year) = $copyright_msg =~ /.*\b(\d{4,})\b/; 
        or die "Year not found in README copyright message '$copyright_msg'";

    $year;
}

sub v_year
# returns the latest copyright year shown in perl -v
{

    my $output = runperl switches => ['-v'];
    my ($year) = $output =~ /copyright \b(\d{4,})\b/; 
        or die "Copyright statement not found in perl -v output '$output'";

    $year;
}
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1.723 glibc 2.29

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```

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*/

/* OPENBSD ORIGINAL: sys/sys/poll.h */

#if !defined(Have_poll) && !defined(Have_poll_H)
    ifndef_COMPAT_POLL_H_
    #define_COMPAT_POLL_H_
#endif

typedef struct pollfd {
    int fd;
    short events;
    short revents;
} pollfd_t;

typedef unsigned int nfds_t;

#define POLLIN0x0001
#define POLLOUT0x0004
#define POLLERR0x0008
#define POLLPRI0x0010
#define POLLNVAL0x0020
#if 0
    /* the following are currently not implemented */
    define POLLPRI0x0002
    define POLLRDNORM0x0040
    define POLLNORMPOLLRDNORM
    define POLLWRNORM POLLOUT
    define POLLRDBAND0x0080
    define POLLWRBAND0x0100
#endif

#define INFTIM(-1)/* not standard */

int poll(struct pollfd *, nfds_t, int);
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  * @version 3.0 (December 2000)
  *
* Optimised ANSI C code for the Rijndael cipher (now AES)
* 
* @author Vincent Rijmen <vincent.rijmen@esat.kuleuven.ac.be>
* @author Antoon Bosselaers <antoon.bosselaers@esat.kuleuven.ac.be>
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endif
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endif
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*
*/
ifndef _BSD_WAITPID_H
#define _BSD_WAITPID_H
ifndef HAVE_WAITPID
/* Clean out any potential issues */
#undef WIFEXITED
#undef WIFSTOPPED
#undef WIFSIGNALED
#define _W_INT(w) (*(int*)&(w)) /* convert union wait to int */
#define WIFEXITED(w) (!(_W_INT(w)) & 0377)
#define WIFSTOPPED(w)((_W_INT(w)) & 0100)
#define WIFSIGNALED(w)(WIFEXITED(w) && !WIFSTOPPED(w))
#define WEXITSTATUS(w) ((int)(WIFEXITED(w) ? ((_W_INT(w) >> 8) & 0377) : -1))
#define WTERMSIG(w) ((int)(WIFSIGNALED(w) ? (_W_INT(w) & 0177) : -1))
endif
endif
 ifndef _BSD_WAITPID_H
#define _BSD_WAITPID_H
```c
#define WCOREFLAG 0x80
#define WCOREDUMP(w) ((_W_INT(w)) & WCOREFLAG)

/* Prototype */
pid_t waitpid(int, int *, int);
#endif /* !HAVE_WAITPID */
#endif /* _BSD_WAITPID_H */
```

# 1.725 tar 1.29b-1.1

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1.726 linux-kernel 4.15.0-140.144

1.727 thrift 1.2.3

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1.728 anser 1.4.9

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1.729 lz4 1.9.1

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If the program does terminal interaction, make it output a short notice like this when it starts in an interactive mode:

```
<program>  Copyright (C) <year>  <name of author>
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```

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1.744 ipaddr.js 1.9.1

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1.748 xtrans 1.3.5-1

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1.752 sbsigntool 1.3

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sbsigntool - utilities for signing UEFI binaries for use with secure boot.

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1.761 go-cache 2.1.0+incompatible

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1.762 fuse 2.5.0

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Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see http://www.cnri.reston.va.us) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations, which became
Zope Corporation. In 2001, the Python Software Foundation (PSF, see https://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation was a sponsoring member of the PSF.

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1.777 pkg-config 0.29-4+b1

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Because of this blurred distinction, using the ordinary General
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"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation
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For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

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5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

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When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

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d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

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7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

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1.783 libxi 1.7.9-1

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1.784 keyutils 1.5.9 9.2ubuntu2

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Encode::$_Name_ version 0.1

NAME
   Encode::$_Name_ - <describe encoding>

SYNOPSIS
   use Encode::$_Name_;
   #$<put more words here>

ABSTRACT
   <fill this in>

INSTALLATION

To install this module type the following:

perl Makefile.PL
make
make test
make install
DEPENDENCIES

This module requires perl version 5.7.3 or later.

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Found in path(s):
* /opt/cola/permits/1150898667_1634081264.27/0/perl-Encode-2.51-7.amzn2.0.2.src.rpm-cosi-expand-archive-QIJwYAqk/Encode-2.51.tar.gz-cosi-expand-archive-Iq04yQJg/Encode-2.51/Encode/README.e2x
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=head1 NAME

Encode - character encodings in Perl

=head1 SYNOPSIS

use Encode qw(decode encode);
$characters = decode('UTF-8', $octets, Encode::FB_CROAK);
$octets = encode('UTF-8', $characters, Encode::FB_CROAK);

=head2 Table of Contents

Encode consists of a collection of modules whose details are too extensive to fit in one document. This one itself explains the top-level APIs and general topics at a glance. For other topics and more details, see the documentation for these modules:

=over 2

=item L<Encode::Alias> - Alias definitions to encodings

=item L<Encode::Encoding> - Encode Implementation Base Class

=item L<Encode::Supported> - List of Supported Encodings
The `Encode` module provides the interface between Perl strings and the rest of the system. Perl strings are sequences of characters.

The repertoire of characters that Perl can represent is a superset of those defined by the Unicode Consortium. On most platforms the ordinal values of a character as returned by `ord('S')` is the Unicode codepoint for that character. The exceptions are platforms where the legacy encoding is some variant of EBCDIC rather than a superset of ASCII; see `perlebcdic`.

During recent history, data is moved around a computer in 8-bit chunks, often called "bytes" but also known as "octets" in standards documents. Perl is widely used to manipulate data of many types: not only strings of characters representing human or computer languages, but also "binary" data, being the machine's representation of numbers, pixels in an image, or just about anything.

When Perl is processing "binary data", the programmer wants Perl to process "sequences of bytes". This is not a problem for Perl: because a byte has 256 possible values, it easily fits in Perl's much larger "logical character".

This document mostly explains the `how`, `perlunitut` and `perlunifaq` explain the `why`.

The terminology:

A character in the range 0 .. 2**32-1 (or more); what Perl's strings are made of.
A character in the range 0..255; a special case of a Perl character.

=head3 octet

8 bits of data, with ordinal values 0..255; term for bytes passed to or from a non-Perl context, such as a disk file, standard I/O stream, database, command-line argument, environment variable, socket etc.

=head1 THE PERL ENCODING API

=head2 Basic methods

=head3 encode

$selfets = encode(ENCODING, STRING[, CHECK])

Encodes the scalar value I<STRING> from Perl's internal form into I<ENCODING> and returns a sequence of octets. I<ENCODING> can be either a canonical name or an alias. For encoding names and aliases, see L</"Defining Aliases">. For CHECK, see L</"Handling Malformed Data">.

For example, to convert a string from Perl's internal format into ISO-8859-1, also known as Latin1:

$selfets = encode("iso-8859-1", $string);

B<CAVEAT>: When you run C<$selfets = encode("utf8", $string)>, then $selfets I<might not be equal to> $string. Though both contain the same data, the UTF8 flag for $selfets is I<always> off. When you encode anything, the UTF8 flag on the result is always off, even when it contains a completely valid utf8 string. See L</"The UTF8 flag"> below.

If the $string is C<undef>, then C<undef> is returned.

=head3 decode

$string = decode(ENCODING, OCTETS[, CHECK])

This function returns the string that results from decoding the scalar value I<OCTETS>, assumed to be a sequence of octets in I<ENCODING>, into Perl's internal form. The returns the resulting string. As with encode(), I<ENCODING> can be either a canonical name or an alias. For encoding names and aliases, see L</"Defining Aliases">; for I<CHECK>, see L</"Handling Malformed Data">.

For example, to convert ISO-8859-1 data into a string in Perl's
internal format:

$string = decode("iso-8859-1", $octets);

B<CAVEAT>: When you run C<$string = decode("utf8", $octets)> , then $string
I<might not be equal to> Soctets. Though both contain the same data, the
UTF8 flag for $string is on unless Soctets consists entirely of ASCII data
on ASCII machines or EBCDIC on EBCDIC machines. See L</"The UTF8 flag”>
below.

If the $string is C<undef>, then C<undef> is returned.

=head3 find_encoding

[$obj =] find_encoding(ENCODING)

Returns the I<encoding object> corresponding to I<ENCODING>. Returns
C<undef> if no matching I<ENCODING> is find. The returned object is
what does the actual encoding or decoding.

$utf8 = decode($name, $bytes);

is in fact

$utf8 = do {
    $obj = find_encoding($name);
    croak qq(encoding "$name" not found) unless ref $obj;
    $obj->decode($bytes);
};

with more error checking.

You can therefore save time by reusing this object as follows;

    my $enc = find_encoding("iso-8859-1");
    while(<>) {
        my $utf8 = $enc->decode($_);
        ... # now do something with $utf8;
    }

Besides L</decode> and L</encode>, other methods are
available as well. For instance, C<name()> returns the canonical
name of the encoding object.

    find_encoding("latin1")->name; # iso-8859-1

See L<Encode::Encoding> for details.
from_to

[$length =] from_to($octets, FROM_ENC, TO_ENC [, CHECK])

Converts I<in-place> data between two encodings. The data in $octets
must be encoded as octets and I<not> as characters in Perl's internal
format. For example, to convert ISO-8859-1 data into Microsoft's CP1250
encoding:

from_to($octets, "iso-8859-1", "cp1250");

and to convert it back:

from_to($octets, "cp1250", "iso-8859-1");

Because the conversion happens in place, the data to be
converted cannot be a string constant: it must be a scalar variable.

C<from_to()> returns the length of the converted string in octets on success,
and C<undef> on error.

B<CAVEAT>: The following operations may look the same, but are not:

    from_to($data, "iso-8859-1", "utf8"); #1
    $data = decode("iso-8859-1", $data);  #2

Both #1 and #2 make $data consist of a completely valid UTF-8 string,
but only #2 turns the UTF8 flag on. #1 is equivalent to:

    $data = encode("utf8", decode("iso-8859-1", $data));

See L</"The UTF8 flag"> below.

Also note that:

from_to($octets, $from, $to, $check);

is equivalent to:

$octets = encode($to, decode($from, $octets), $check);

Yes, it does I<not> respect the $check during decoding. It is
deliberately done that way. If you need minute control, use C<decode>
followed by C<encode> as follows:

    $octets = encode($to, decode($from, $octets, $check_from), $check_to);

=head3 encode_utf8
$octets = encode_utf8($string);

Equivalent to C<$octets = encode("utf8", $string)>.
The characters in $string are encoded in Perl's internal format, and the result is returned as a sequence of octets.
Because all possible characters in Perl have a (loose, not strict) UTF-8 representation, this function cannot fail.

=head3 decode_utf8

$string = decode_utf8($octets [, CHECK]);

Equivalent to C<$string = decode("utf8", $octets [, CHECK])>.
The sequence of octets represented by $octets is decoded from UTF-8 into a sequence of logical characters.
Because not all sequences of octets are valid UTF-8, it is quite possible for this function to fail.
For CHECK, see L</"Handling Malformed Data">.

=head2 Listing available encodings

use Encode;
@list = Encode->encodings();

Returns a list of canonical names of available encodings that have already been loaded.
To get a list of all available encodings including those that have not yet been loaded, say:

@all_encodings = Encode->encodings(":all");

Or you can give the name of a specific module:

@with_jp = Encode->encodings("Encode::JP");

When "C<::>" is not in the name, "C<Encode::*>" is assumed.

@ebcdic = Encode->encodings("EBCDIC");

To find out in detail which encodings are supported by this package, see L<Encode::Supported>.

=head2 Defining Aliases

To add a new alias to a given encoding, use:

use Encode;
use Encode::Alias;
define_alias(NEWNAME => ENCODING);
After that, `<NEWNAME>` can be used as an alias for `<ENCODING>`.
`<ENCODING>` may be either the name of an encoding or an
`<encoding object>`.

Before you do that, first make sure the alias is nonexistent using
`<resolve_alias()>`, which returns the canonical name thereof.
For example:

```
Encode::resolve_alias("latin1") eq "iso-8859-1" # true
Encode::resolve_alias("iso-8859-12")   # false; nonexistent
Encode::resolve_alias($name) eq $name # true if $name is canonical
```

`<resolve_alias()>` does not need `<use Encode::Alias>`; it can be
imported via `<use Encode qw(resolve_alias)>`.

See `<Encode::Alias>` for details.

=head2 Finding IANA Character Set Registry names

The canonical name of a given encoding does not necessarily agree with
IANA Character Set Registry, commonly seen as `<Content-Type:
text/plain; charset=<WHATEVER>>`. For most cases, the canonical name
works, but sometimes it does not, most notably with "utf-8-strict".

As of `<Encode>` version 2.21, a new method `<mime_name()>` is therefore added.

```
use Encode;
my $enc = find_encoding("UTF-8");
warn $enc->name;   # utf-8-strict
warn $enc->mime_name; # UTF-8
```

See also: `<Encode::Encoding>`

=head1 Encoding via PerlIO

If your perl supports `<PerlIO>` (which is the default), you can use a
`<PerlIO>` layer to decode and encode directly via a filehandle. The
following two examples are fully identical in functionality:

### Version 1 via PerlIO

```
open(INPUT, "< :encoding(shiftjis)", $infile)
  || die "Can't open < $infile for reading: $!";
open(OUTPUT, "> :encoding(euc-jp)", $outfile)
  || die "Can't open > $output for writing: $!";
while (<INPUT>) {
    # auto decodes $_
    print OUTPUT;
    # auto encodes $_
}
```
close(INPUT)  || die "can't close $infile: $!";
close(OUTPUT) || die "can't close $outfile: $!";

### Version 2 via from_to()
open(INPUT, "< :raw", $infile)
    || die "Can't open < $infile for reading: $!";
open(OUTPUT, "> :raw", $outfile)
    || die "Can't open > $output for writing: $!";

while (<INPUT>) {
    from_to($_, "shiftjis", "euc-jp", 1);  # switch encoding
    print OUTPUT;   # emit raw (but properly encoded) data
}
close(INPUT)  || die "can't close $infile: $!";
close(OUTPUT) || die "can't close $outfile: $!";

In the first version above, you let the appropriate encoding layer
handle the conversion. In the second, you explicitly translate
from one encoding to the other.

Unfortunately, it may be that encodings are C<PerlIO>-savvy. You can check
to see whether your encoding is supported by C<PerlIO> by invoking the
C<perlio_ok> method on it:

    Encode::perlio_ok("hz");               # false
    find_encoding("euc-cn")->perlio_ok;    # true wherever PerlIO is available

use Encode qw(perlio_ok);            # imported upon request
    perlio_ok("euc-jp")

Fortunately, all encodings that come with C<Encode> core are C<PerlIO>-savvy
except for C<hz> and C<ISO-2022-kr>. For the gory details, see
L<Encode::Encoding> and L<Encode::PerlIO>.

=head1 Handling Malformed Data

The optional I<CHECK> argument tells C<Encode> what to do when
encountering malformed data. Without I<CHECK>, C<Encode::FB_DEFAULT>
(== 0) is assumed.

As of version 2.12, C<Encode> supports coderef values for C<CHECK>;
see below.

B<NOTE:> Not all encodings support this feature.
Some encodings ignore the I<CHECK> argument. For example,
L<Encode::Unicode> ignores I<CHECK> and it always croaks on error.

=head2 List of I<CHECK> values
If $\text{CHECK} = 0$, encoding and decoding replace any malformed character with a $\text{SUBCHAR}$. When you encode, $\text{SUBCHAR}$ is used. When you decode, the Unicode REPLACEMENT CHARACTER, code point U+FFFD, is used. If the data is supposed to be UTF-8, an optional lexical warning of warning category C"utf8" is given.

If $\text{CHECK} = 1$, methods immediately die with an error message. Therefore, when $\text{CHECK} = 1$, you should trap exceptions with C<eval{}>, unless you really want to let it C<die>.

If $\text{CHECK} = \text{FB_QUIET}$, encoding and decoding immediately return the portion of the data that has been processed so far when an error occurs. The data argument is overwritten with everything after that point; that is, the unprocessed portion of the data. This is handy when you have to call C<decode> repeatedly in the case where your source data may contain partial multi-byte character sequences, (that is, you are reading with a fixed-width buffer). Here's some sample code to do exactly that:

```perl
my($buffer, $string) = ("", "");
while (read($fh, $buffer, 256, length($buffer))) {
    $string .= decode($encoding, $buffer, $check);
    # $buffer now contains the unprocessed partial character
}
```

This is the same as C<FB_QUIET> above, except that instead of being silent on errors, it issues a warning. This is handy for when you are debugging.
For encodings that are implemented by the C<Encode::XS> module, C<CHECK> C<==>
C<Encode::FB_PERLQQ> puts C<encode> and C<decode> into C<perlqq> fallback mode.

When you decode, C<\xI<HH>> is inserted for a malformed character, where
I<HH> is the hex representation of the octet that could not be decoded to
utf8. When you encode, C<\x{I<HHHH>}> will be inserted, where I<HHHH> is
the Unicode code point (in any number of hex digits) of the character that
cannot be found in the character repertoire of the encoding.

The HTML/XML character reference modes are about the same. In place of
C<\x{I<HHHH>}> HTML uses C&lt;&amp;#I<NNN>;> where I<NNN> is a decimal number, and
XML uses C&lt;&amp;#xI<HHHH>;> where I<HHHH> is the hexadecimal number.

In C<Encode> 2.10 or later, C<LEAVE_SRC> is also implied.

=head3 The bitmask

These modes are all actually set via a bitmask. Here is how the C<FB_I<XXX>>
constants are laid out. You can import the C<FB_I<XXX>> constants via
C<use Encode qw(:fallbacks)>, and you can import the generic bitmask
constants via C<use Encode qw(:fallback_all)>.

    FB_DEFAULT FB_CROAK FB_QUIET FB_WARN FB_PERLQQ
    DIE_ON_ERR   0x0001             X
WARN_ON_ERR    0x0002                               X
RETURN_ON_ERR 0x0004                      X        X
LEAVE_SRC     0x0008                                        X
PERLQQ        0x0100                                        X
HTMLCREF      0x0200
XMLCREF       0x0400

=head3 LEAVE_SRC

Encode::LEAVE_SRC

If the C<Encode::LEAVE_SRC> bit is I<not> set but I<CHECK> is set, then the
source string to encode() or decode() will be overwritten in place.
If you're not interested in this, then bitwise-OR it with the bitmask.
As of C<Encode> 2.12, C<CHECK> can also be a code reference which takes the ordinal value of the unmapped character as an argument and returns a string that represents the fallback character. For instance:

$ascii = encode("ascii", $utf8, sub{ sprintf "<U+%04X>", shift });

Acts like C<FB_PERLQQ> but U+I<XXXX> is used instead of C\x{I<XXXX>}.

=head1 Defining Encodings

To define a new encoding, use:

   use Encode qw(define_encoding);
   define_encoding($object, CANONICAL_NAME [, alias...]);

I<CANONICAL_NAME> will be associated with I<$object>. The object should provide the interface described in L<Encode::Encoding>. If more than two arguments are provided, additional arguments are considered aliases for I<$object>.

See L<Encode::Encoding> for details.

=head1 The UTF8 flag

Before the introduction of Unicode support in Perl, The C<eq> operator just compared the strings represented by two scalars. Beginning with Perl 5.8, C<eq> compares two strings with simultaneous consideration of I<the UTF8 flag>. To explain why we made it so, I quote from page 402 of I<Programming Perl, 3rd ed.>

=over 2

=item Goal #1:

Old byte-oriented programs should not spontaneously break on the old byte-oriented data they used to work on.

=item Goal #2:

Old byte-oriented programs should magically start working on the new character-oriented data when appropriate.

=item Goal #3:

Programs should run just as fast in the new character-oriented mode as in the old byte-oriented mode.
=item Goal #4:

Perl should remain one language, rather than forking into a byte-oriented Perl and a character-oriented Perl.

=back

When I<Programming Perl, 3rd ed.> was written, not even Perl 5.6.0 had been born yet, many features documented in the book remained unimplemented for a long time. Perl 5.8 corrected much of this, and the introduction of the UTF8 flag is one of them. You can think of there being two fundamentally different kinds of strings and string-operations in Perl: one a byte-oriented mode for when the internal UTF8 flag is off, and the other a character-oriented mode for when the internal UTF8 flag is on.

Here is how C<Encode> handles the UTF8 flag.

=over 2

=item *

When you I<encode>, the resulting UTF8 flag is always B<off>.

=item *

When you I<decode>, the resulting UTF8 flag is B<on>--I<unless> you can unambiguously represent data. Here is what we mean by "unambiguously". After C<$utf8 = decode("foo", $octet)>,

<table>
<thead>
<tr>
<th>When $octet is...</th>
<th>The UTF8 flag in $utf8 is</th>
</tr>
</thead>
<tbody>
<tr>
<td>ASCII only (or EBCDIC only)</td>
<td>OFF</td>
</tr>
<tr>
<td>ISO-8859-1</td>
<td>ON</td>
</tr>
<tr>
<td>In any other Encoding</td>
<td>ON</td>
</tr>
</tbody>
</table>

As you see, there is one exception: in ASCII. That way you can assume Goal #1. And with C<Encode>, Goal #2 is assumed but you still have to be careful in the cases mentioned in the B<CAVEAT> paragraphs above.

This UTF8 flag is not visible in Perl scripts, exactly for the same reason you cannot (or rather, you I<don't have to>) see whether a scalar contains a string, an integer, or a floating-point number. But you can still peek and poke these if you will. See the next section.

=back
Messing with Perl's Internals

The following API uses parts of Perl's internals in the current implementation. As such, they are efficient but may change in a future release.

is_utf8(STRING [, CHECK])

[INTERNAL] Tests whether the UTF8 flag is turned on in the STRING. If CHECK is true, also checks whether STRING contains well-formed UTF-8. Returns true if successful, false otherwise.

As of Perl 5.8.1, L<utf8> also has the C<utf8::is_utf8> function.

_utf8_on(STRING)

[INTERNAL] Turns the STRING's internal UTF8 flag on. The STRING is not checked for containing only well-formed UTF-8. Do not use this unless you know with absolute certainty that the STRING holds only well-formed UTF-8. Returns the previous state of the UTF8 flag (so please don't treat the return value as indicating success or failure), or C<undef> if STRING is not a string.

B<NOTE>: For security reasons, this function does not work on tainted values.

_utf8_off(STRING)

[INTERNAL] Turns the STRING's internal UTF8 flag off. Do not use frivolously. Returns the previous state of the UTF8 flag, or C<undef> if STRING is not a string. Do not treat the return value as indicative of success or failure, because that isn't what it means: it is only the previous setting.

B<NOTE>: For security reasons, this function does not work on tainted values.

UTF-8 vs. utf8 vs. UTF8

...We now view strings not as sequences of bytes, but as sequences of numbers in the range 0..2**32-1 (or in the case of 64-bit computers, 0..2**64-1) -- Programming Perl, 3rd ed.

That has historically been Perl's notion of UTF-8, as that is how UTF-8 was
first conceived by Ken Thompson when he invented it. However, thanks to later revisions to the applicable standards, official UTF-8 is now rather stricter than that. For example, its range is much narrower (0..0x10_FFFF to cover only 21 bits instead of 32 or 64 bits) and some sequences are not allowed, like those used in surrogate pairs, the 31 non-character code points 0xFDD0..0xFDEF, the last two code points in \any plane (0x1<XX>_FFFE and 0x1<XX>_FFFF), all non-shortest encodings, etc.

The former default in which Perl would always use a loose interpretation of UTF-8 has now been overruled:

From: Larry Wall <larry@wall.org>
Date: December 04, 2004 11:51:58 JST
To: perl-unicode@perl.org
Subject: Re: Make Encode.pm support the real UTF-8
Message-Id: <20041204025158.GA28754@wall.org>

On Fri, Dec 03, 2004 at 10:12:12PM +0000, Tim Bunce wrote:
: I've no problem with 'utf8' being perl's unrestricted utf8 encoding,
: but "UTF-8" is the name of the standard and should give the
: corresponding behaviour.

For what it's worth, that's how I've always kept them straight in my head.

Also for what it's worth, Perl 6 will mostly default to strict but make it easy to switch back to lax.

Larry

Got that? As of Perl 5.8.7, B"UTF-8" means UTF-8 in its current sense, which is conservative and strict and security-conscious, whereas B"utf8" means UTF-8 in its former sense, which was liberal and loose and lax. C<Encode> version 2.10 or later thus groks this subtle but critically important distinction between C"UTF-8" and C"utf8".

    encode("utf8", "\x{FFFF_FFFF}", 1); # okay
    encode("UTF-8", "\x{FFFF_FFFF}", 1); # croaks

In the C<Encode> module, C"UTF-8" is actually a canonical name for C"utf-8-strict". That hyphen between the C"UTF" and the C"8" is critical; without it, C<Encode> goes "liberal" and (perhaps overly-)permissive:

    find_encoding("UTF-8")->name # is 'utf-8-strict'
    find_encoding("utf8")->name # ditto. names are case insensitive
    find_encoding("utf_8")->name # ditto. "_" are treated as "."
    find_encoding("UTF8")->name # is 'utf8'.
Perl's internal UTF8 flag is called "UTF8", without a hyphen. It indicates whether a string is internally encoded as "utf8", also without a hyphen.

=head1 SEE ALSO

L<Encode::Encoding>,
L<Encode::Supported>,
L<Encode::PerlIO>,
L<encoding>,
L<perlebcdic>,
L<perlfunc/open>,
L<perlunicode>, L<perluintro>, L<perlunifaq>, L<perlunitut>
L<utf8>,
the Perl Unicode Mailing List L<http://lists.perl.org/list/perl-unicode.html>

=head1 MAINTAINER

This project was originated by the late Nick Ing-Simmons and later maintained by Dan Kogai I<< <dankogai@cpan.org> >>. See AUTHORS for a full list of people involved. For any questions, send mail to I<< <perl-unicode@perl.org> >> so that we can all share.

While Dan Kogai retains the copyright as a maintainer, credit should go to all those involved. See AUTHORS for a list of those who submitted code to the project.

=head1 COPYRIGHT

Copyright 2002-2013 Dan Kogai I<< <dankogai@cpan.org> >>.

This library is free software; you can redistribute it and/or modify it under the same terms as Perl itself.

=cut

Found in path(s):
* /opt/cola/permits/1150898667_1634081264.27/0/perl-Encode-2.51-7.amzn2.0.2.src.rpm-cosi-expand-archive-QJwYAqk/Encode-2.51.tar.gz-cosi-expand-archive-Iq04yQJg/Encode-2.51/Encode.pm

No license file was found, but licenses were detected in source scan.

=head1 NAME

Encode::Supported -- Encodings supported by Encode

=head1 DESCRIPTION

=head2 Encoding Names
Encoding names are case insensitive. White space in names is ignored. In addition, an encoding may have aliases. Each encoding has one "canonical" name. The "canonical" name is chosen from the names of the encoding by picking the first in the following sequence (with a few exceptions).

=over 2
=item *

The name used by the Perl community. That includes 'utf8' and 'ascii'. Unlike aliases, canonical names directly reach the method so such frequently used words like 'utf8' don't need to do alias lookups.

=item *

The MIME name as defined in IETF RFCs. This includes all "iso-"s.

=item *

The name in the IANA registry.

=item *

The name used by the organization that defined it.
=back

In case I<de jure> canonical names differ from that of the Encode module, they are always aliased if it ever be implemented. So you can safely tell if a given encoding is implemented or not just by passing the canonical name.

Because of all the alias issues, and because in the general case encodings have state, "Encode" uses an encoding object internally once an operation is in progress.

=head1 Supported Encodings

As of Perl 5.8.0, at least the following encodings are recognized. Note that unless otherwise specified, they are all case insensitive (via alias) and all occurrence of spaces are replaced with '-'. In other words, "ISO 8859 1" and "iso-8859-1" are identical.

Encodings are categorized and implemented in several different modules but you don't have to C<use Encode::XX> to make them available for most cases. Encode.pm will automatically load those modules on demand.
=head2 Built-in Encodings

The following encodings are always available.

<table>
<thead>
<tr>
<th>Canonical</th>
<th>Aliases</th>
<th>Comments &amp; References</th>
</tr>
</thead>
<tbody>
<tr>
<td>ascii</td>
<td>US-ascii ISO-646-US</td>
<td>[ECMA]</td>
</tr>
<tr>
<td>ascii-ctrl</td>
<td></td>
<td>Special Encoding</td>
</tr>
<tr>
<td>iso-8859-1</td>
<td>latin1</td>
<td>[ISO]</td>
</tr>
<tr>
<td>null</td>
<td></td>
<td>Special Encoding</td>
</tr>
<tr>
<td>utf8</td>
<td>UTF-8</td>
<td>[RFC2279]</td>
</tr>
</tbody>
</table>

I<null> and I<ascii-ctrl> are special. "null" fails for all character so when you set fallback mode to PERLQQ, HTMLCREF or XMLCREF, ALL CHARACTERS will fall back to character references. Ditto for "ascii-ctrl" except for control characters. For fallback modes, see L<Encode>.

=head2 Encode::Unicode -- other Unicode encodings

Unicode coding schemes other than native utf8 are supported by Encode::Unicode, which will be autoloaded on demand.

<p>| | | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>UCS-2BE</td>
<td>UCS-2, iso-10646-1</td>
<td>[IANA, UC]</td>
</tr>
<tr>
<td>UCS-2LE</td>
<td></td>
<td>[UC]</td>
</tr>
<tr>
<td>UTF-16</td>
<td></td>
<td>[UC]</td>
</tr>
<tr>
<td>UTF-16BE</td>
<td></td>
<td>[UC]</td>
</tr>
<tr>
<td>UTF-16LE</td>
<td></td>
<td>[UC]</td>
</tr>
<tr>
<td>UTF-32</td>
<td></td>
<td>[UC]</td>
</tr>
<tr>
<td>UTF-32BEUCS-4</td>
<td></td>
<td>[UC]</td>
</tr>
<tr>
<td>UTF-32LE</td>
<td></td>
<td>[UC]</td>
</tr>
<tr>
<td>UTF-7</td>
<td></td>
<td>[RFC2152]</td>
</tr>
</tbody>
</table>

To find how (UCS-2|UTF-(16|32))(LE|BE)? differ from one another, see L<Encode::Unicode>.

UTF-7 is a special encoding which "re-encodes" UTF-16BE into a 7-bit encoding. It is implemented separately by Encode::Unicode::UTF7.

=head2 Encode::Byte -- Extended ASCII

Encode::Byte implements most single-byte encodings except for Symbols and EBCDIC. The following encodings are based on single-byte encodings implemented as extended ASCII. Most of them map \x80-\xff (upper half) to non-ASCII characters.
Since there are so many, they are presented in table format with languages and corresponding encoding names by vendors. Note that the table is sorted in order of ISO-8859 and the corresponding vendor mappings are slightly different from that of ISO. See [http://czyborra.com/charsets/iso8859.html](http://czyborra.com/charsets/iso8859.html) for details.

<table>
<thead>
<tr>
<th>Lang/Regions</th>
<th>ISO/Other Std.</th>
<th>DOS</th>
<th>Windows</th>
<th>Macintosh</th>
<th>Others</th>
</tr>
</thead>
<tbody>
<tr>
<td>N. America</td>
<td>(ASCII) cp437</td>
<td>cp863 (DOSCanadaF)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>W. Europe</td>
<td>iso-8859-1 cp850</td>
<td>cp1252 MacRoman nextstep hp-roman8 cp860 (DOSPortuguese)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cntrl. Europe</td>
<td>iso-8859-2 cp852</td>
<td>cp1250 MacCentralEurRoman MacCroatian MacRomanian MacRumanian</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Latin3[1]</td>
<td>iso-8859-3</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Latin4[2]</td>
<td>iso-8859-4</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cyrillics</td>
<td>iso-8859-5 cp855</td>
<td>cp1251 MacCyrillic</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>(See also next section)</td>
<td>cp866 MacUkrainian</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Arabic</td>
<td>iso-8859-6 cp864</td>
<td>cp1256 MacArabic cp1006 MacFarsi</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Greek</td>
<td>iso-8859-7 cp737</td>
<td>cp1253 MacGreek cp869 (DOSGreek2)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Hebrew</td>
<td>iso-8859-8 cp862</td>
<td>cp1255 MacHebrew</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Turkish</td>
<td>iso-8859-9 cp857</td>
<td>cp1254 MacTurkish</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Nordics</td>
<td>iso-8859-10 cp865</td>
<td></td>
<td></td>
<td></td>
<td>MacIcelandic MacSami</td>
</tr>
<tr>
<td>Thai</td>
<td>iso-8859-11[3] cp874</td>
<td>MacThai</td>
<td></td>
<td></td>
<td>(iso-8859-12 is nonexistent. Reserved for Indics?)</td>
</tr>
<tr>
<td>Baltics</td>
<td>iso-8859-13 cp775</td>
<td>cp1257</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Celtics</td>
<td>iso-8859-14</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Latin10</td>
<td>iso-8859-16</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Vietnamese</td>
<td>viscii cp1258</td>
<td>MacVietnamese</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

[1] Esperanto, Maltese, and Turkish. Turkish is now on 8859-9.
[3] TIS 620 + Non-Breaking Space (0xA0 / U+00A0)
[4] Nicknamed Latin0; the Euro sign as well as French and Finnish
letters that are missing from 8859-1 were added.

All cp* are also available as ibm-*, ms-*, and windows-* . See also L<http://czyborra.com/charsets/codepages.html>.

Macintosh encodings don't seem to be registered in such entities as IANA. "Canonical" names in Encode are based upon Apple's Tech Note 1150. See L<http://developer.apple.com/technotes/tn/tn1150.html> for details.

=item KOI8 - De Facto Standard for the Cyrillic world

Though ISO-8859 does have ISO-8859-5, the KOI8 series is far more popular in the Net. L<Encode> comes with the following KOI charsets. For gory details, see L<http://czyborra.com/charsets/cyrillic.html>

----------------------------------------------------------------
 koi8-f
 koi8-r cp878                                           [RFC1489]
 koi8-u                                                 [RFC2319]
----------------------------------------------------------------

=back

=head2 gsm0338 - Hentai Latin 1

GSM0338 is for GSM handsets. Though it shares alphanumerals with ASCII, control character ranges and other parts are mapped very differently, mainly to store Greek characters. There are also escape sequences (starting with 0x1B) to cover e.g. the Euro sign.

This was once handled by L<Encode::Bytes> but because of all those unusual specifications, Encode 2.20 has relocated the support to L<Encode::GSM0338>. See L<Encode::GSM0338> for details.

=over 2

=item gsm0338 support before 2.19

Some special cases like a trailing 0x00 byte or a lone 0x1B byte are not well-defined and decode() will return an empty string for them. One possible workaround is

$gsm =~ s/\x00\z/\x00\x00/;
$uni = decode("gsm0338", $gsm);
$uni .= "\xA0" if $gsm =~ /\x1B\z/;

Note that the Encode implementation of GSM0338 does not implement the
reuse of Latin capital letters as Greek capital letters (for example, the 0x5A is U+005A (LATIN CAPITAL LETTER Z), not U+0396 (GREEK CAPITAL LETTER ZETA)).

The GSM0338 is also covered in Encode::Byte even though it is not an "extended ASCII" encoding.

=head2 CJK: Chinese, Japanese, Korean (Multibyte)

Note that Vietnamese is listed above. Also read "Encoding vs Charset" below. Also note that these are implemented in distinct modules by countries, due to the size concerns (simplified Chinese is mapped to 'CN', continental China, while traditional Chinese is mapped to 'TW', Taiwan). Please refer to their respective documentation pages.

=item Encode::CN -- Continental China

<table>
<thead>
<tr>
<th>Standard</th>
<th>DOS/Win Macintosh</th>
<th>Comment/Reference</th>
</tr>
</thead>
<tbody>
<tr>
<td>gb12345-raw</td>
<td>{ GB12345 without CES }</td>
<td></td>
</tr>
<tr>
<td>gb2312-raw</td>
<td>{ GB2312 without CES }</td>
<td></td>
</tr>
<tr>
<td>hz</td>
<td></td>
<td></td>
</tr>
<tr>
<td>iso-ir-165</td>
<td></td>
<td>[RFC1468]</td>
</tr>
</tbody>
</table>

[1] GB2312 is aliased to this. See L<Microsoft-related naming mess>
[2] gbk is aliased to this. See L<Microsoft-related naming mess>

=item Encode::JP -- Japan

<table>
<thead>
<tr>
<th>Standard</th>
<th>DOS/Win Macintosh</th>
<th>Comment/Reference</th>
</tr>
</thead>
<tbody>
<tr>
<td>euc-jp</td>
<td></td>
<td></td>
</tr>
<tr>
<td>shiftjis</td>
<td>cp932 macJapanese</td>
<td></td>
</tr>
<tr>
<td>7bit-jis</td>
<td></td>
<td></td>
</tr>
<tr>
<td>iso-2022-jp</td>
<td></td>
<td>[RFC1468]</td>
</tr>
<tr>
<td>iso-2022-jp-1</td>
<td></td>
<td>[RFC2237]</td>
</tr>
<tr>
<td>jis0201-raw</td>
<td>{ JIS X 0201 (roman + halfwidth kana) without CES }</td>
<td></td>
</tr>
<tr>
<td>jis0208-raw</td>
<td>{ JIS X 0208 (Kanji + fullwidth kana) without CES }</td>
<td></td>
</tr>
<tr>
<td>jis0212-raw</td>
<td>{ JIS X 0212 (Extended Kanji) without CES }</td>
<td></td>
</tr>
</tbody>
</table>
## Encode::KR -- Korea

<table>
<thead>
<tr>
<th>Standard</th>
<th>DOS/Win Macintosh</th>
<th>Comment/Reference</th>
</tr>
</thead>
<tbody>
<tr>
<td>euc-kr</td>
<td>MacKorean</td>
<td>[RFC1557]</td>
</tr>
<tr>
<td></td>
<td>cp949 [1]</td>
<td></td>
</tr>
<tr>
<td>iso-2022-kr</td>
<td>[RFC1557]</td>
<td></td>
</tr>
<tr>
<td>ksc5601-raw</td>
<td>{ KSC5601 without CES }</td>
<td></td>
</tr>
</tbody>
</table>

[1] ks_c_5601-1987, (x-)?windows-949, and uhc are aliased to this. See below.

## Encode::TW -- Taiwan

<table>
<thead>
<tr>
<th>Standard</th>
<th>DOS/Win Macintosh</th>
<th>Comment/Reference</th>
</tr>
</thead>
<tbody>
<tr>
<td>big5-eten</td>
<td>cp950 MacChineseTrad [big5 aliased to big5-eten]</td>
<td></td>
</tr>
<tr>
<td>big5-hkscs</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

## Encode::HanExtra -- More Chinese via CPAN

Due to the size concerns, additional Chinese encodings below are distributed separately on CPAN, under the name Encode::HanExtra.

<table>
<thead>
<tr>
<th>Standard</th>
<th>DOS/Win Macintosh</th>
<th>Comment/Reference</th>
</tr>
</thead>
<tbody>
<tr>
<td>big5ext</td>
<td></td>
<td>CMEX's Big5e Extension</td>
</tr>
<tr>
<td>big5plus</td>
<td></td>
<td>CMEX's Big5+ Extension</td>
</tr>
<tr>
<td>cccii</td>
<td>Chinese Character Code for Information Interchange</td>
<td></td>
</tr>
<tr>
<td>euc-tw</td>
<td>EUC (Extended Unix Character)</td>
<td></td>
</tr>
<tr>
<td>gb18030</td>
<td>GBK with Traditional Characters</td>
<td></td>
</tr>
</tbody>
</table>

## Encode::JIS2K -- JIS X 0213 encodings via CPAN

Due to size concerns, additional Japanese encodings below are distributed separately on CPAN, under the name Encode::JIS2K.

<table>
<thead>
<tr>
<th>Standard</th>
<th>DOS/Win Macintosh</th>
<th>Comment/Reference</th>
</tr>
</thead>
<tbody>
<tr>
<td>euc-jisx0213</td>
<td></td>
<td></td>
</tr>
<tr>
<td>shiftjisx0123</td>
<td></td>
<td></td>
</tr>
<tr>
<td>iso-2022-jp-3</td>
<td></td>
<td></td>
</tr>
<tr>
<td>jis0213-1-raw</td>
<td></td>
<td></td>
</tr>
<tr>
<td>jis0213-2-raw</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
=back

=head2 Miscellaneous encodings

=over 2

=item Encode::EBCDIC

See L<perlebcdic> for details.

=item cp37
=immediate cp500
=immediate cp875
=immediate cp1026
=immediate cp1047
=immediate posix-bc

=item Encode::Symbols

For symbols and dingbats.

=item Encode::MIME::Header

Strictly speaking, MIME header encoding documented in RFC 2047 is more of encapsulation than encoding. However, their support in modern world is imperative so they are supported.

=item MIME-Header [RFC2047]
=immediate MIME-B [RFC2047]
=immediate MIME-Q [RFC2047]

=item Encode::Guess

This one is not a name of encoding but a utility that lets you pick up
the most appropriate encoding for a data out of given I<suspects>.  See
L<Encode::Guess> for details.

=back

=head1 Unsupported encodings

The following encodings are not supported as yet; some because they
are rarely used, some because of technical difficulties. They may
be supported by external modules via CPAN in the future, however.

=over 2


Not very popular yet. Needs Unicode Database or equivalent to
implement encode() (because it includes JIS X 0208/0212, KSC5601, and
GB2312 simultaneously, whose code points in Unicode overlap. So you
need to lookup the database to determine to what character set a given
Unicode character should belong).

=item ISO-2022-CN [RFC1922]

Not very popular. Needs CNS 11643-1 and -2 which are not available in
this module. CNS 11643 is supported (via euc-tw) in Encode::HanExtra.
Autrijus Tang may add support for this encoding in his module in future.

=item Various HP-UX encodings

The following are unsupported due to the lack of mapping data.

'8' - arabic8, greek8, hebrew8, kana8, thai8, and turkish8
'15' - japanese15, korean15, and roi15

=item Cyrillic encoding ISO-IR-111

Anton Tagunov doubts its usefulness.

=item ISO-8859-8-1 [Hebrew]

None of the Encode team knows Hebrew enough (ISO-8859-8, cp1255 and
MacHebrew are supported because and just because there were mappings

=item ISIRI 3342, Iran System, ISIRI 2900 [Farsi]

Ditto.
=item Thai encoding TCVN

Ditto.

=item Vietnamese encodings VPS

Though Jungshik Shin has reported that Mozilla supports this encoding, it was too late before 5.8.0 for us to add it. In the future, it may be available via a separate module. See
and
if you are interested in helping us.

=item Various Mac encodings

The following are unsupported due to the lack of mapping data.

MacArmenian, MacBengali, MacBurmese, MacEthiopic
MacExtArabic, MacGeorgian, MacKannada, MacKhmer
MacLaotian, MacMalayalam, MacMongolian, MacOriya
MacSinhalese, MacTamil, MacTelugu, MacTibetan
MacVietnamese

The rest which are already available are based upon the vendor mappings at L<http://www.unicode.org/Public/MAPPINGS/VENDORS/APPLE/>.

=item (Mac) Indic encodings

The maps for the following are available at L<http://www.unicode.org/> but remain unsupported because those encodings need an algorithmical approach, currently unsupported by F<enc2xs>:

MacDevanagari
MacGurmukhi
MacGujarati

For details, please see C<Unicode mapping issues and notes:> at
L<http://www.unicode.org/Public/MAPPINGS/VENDORS/APPLE/DEVANAGA.TXT>.

I believe this issue is prevalent not only for Mac Indics but also in other Indic encodings, but the above were the only Indic encodings maps that I could find at L<http://www.unicode.org/>.

=back

=head1 Encoding vs. Charset -- terminology
We are used to using the term (character) I<encoding> and I<character set> interchangeably. But just as confusing the terms byte and character is dangerous and the terms should be differentiated when needed, we need to differentiate I<encoding> and I<character set>.

To understand that, here is a description of how we make computers grok our characters.

First we start with which characters to include. We call this collection of characters I<character repertoire>.

Then we have to give each character a unique ID so your computer can tell the difference between ‘a’ and ‘A’. This itemized character repertoire is now a I<character set>.

If your computer can grow the character set without further processing, you can go ahead and use it. This is called a I<coded character set> (CCS) or I<raw character encoding>. ASCII is used this way for most cases.

But in many cases, especially multi-byte CJK encodings, you have to tweak a little more. Your network connection may not accept any data with the Most Significant Bit set, and your computer may not be able to tell if a given byte is a whole character or just half of it. So you have to I<encode> the character set to use it.

A I<character encoding scheme> (CES) determines how to encode a given character set, or a set of multiple character sets. 7bit ISO-2022 is an example of a CES. You switch between character sets via I<escape sequences>.

Technically, or mathematically, speaking, a character set encoded in such a CES that maps character by character may form a CCS. EUC is such an example. The CES of EUC is as follows:
Map ASCII unchanged.

Map such a character set that consists of 94 or 96 powered by N members by adding 0x80 to each byte.

You can also use 0x8e and 0x8f to indicate that the following sequence of characters belongs to yet another character set. To each following byte is added the value 0x80.

By carefully looking at the encoded byte sequence, you can find that the byte sequence conforms a unique number. In that sense, EUC is a CCS generated by a CES above from up to four CCS (complicated?). UTF-8 falls into this category. See L<perlUnicode/"UTF-8"> to find out how UTF-8 maps Unicode to a byte sequence.

You may also have found out by now why 7bit ISO-2022 cannot comprise a CCS. If you look at a byte sequence \x21\x21, you can't tell if it is two !'s or IDEOGRAPHIC SPACE. EUC maps the latter to \xA1\xA1 so you have no trouble differentiating between "!!". and S<" ">.

This section tries to classify the supported encodings by their applicability for information exchange over the Internet and to choose the most suitable aliases to name them in the context of such communication.

To (en|de)code encodings marked by C<(**)>, you need C<Encode::HanExtra>, available from CPAN.

Encoding names

US-ASCII UTF-8 ISO-8859-* KOI8-R
are registered with IANA as preferred MIME names and may be used over the Internet.

C<Shift_JIS> has been officialized by JIS X 0208:1997. L<Microsoft-related naming mess> gives details.

C<GB2312> is the IANA name for C<EUC-CN>. See L<Microsoft-related naming mess> for details.

C<GB_2312-80> I<raw> encoding is available as C<gb2312-raw> with Encode. See L<Encode::CN> for details.

EUC-CN
KOI8-U [RFC2319]

have not been registered with IANA (as of March 2002) but seem to be supported by major web browsers. The IANA name for C<EUC-CN> is C<GB2312>.

KS_C_5601-1987

is heavily misused. See L<Microsoft-related naming mess> for details.

C<KS_C_5601-1987> I<raw> encoding is available as C<kcs5601-raw> with Encode. See L<Encode::KR> for details.

UTF-16 UTF-16BE UTF-16LE

are IANA-registered C<charset>s. See [RFC 2781] for details. Jungshik Shin reports that UTF-16 with a BOM is well accepted by MS IE 5/6 and NS 4/6. Beware however that

=over 2
=item *

C<UTF-16> support in any software you're going to be using/interoperating with has probably been less tested then C<UTF-8> support

=item *

C<UTF-8> coded data seamlessly passes traditional command piping (C<cat>, C<more>, etc.) while C<UTF-16> coded
data is likely to cause confusion (with its zero bytes, for example)

it is beyond the power of words to describe the way HTML browsers encode non-C<ASCII> form data. To get a general impression, visit L<http://www.alanflavell.org.uk/charset/form-i18n.html>. While encoding of form data has stabilized for C<UTF-8> encoded pages (at least IE 5/6, NS 6, and Opera 6 behave consistently), be sure to expect fun (and cross-browser discrepancies) with C<UTF-16> encoded pages!

The rule of thumb is to use C<UTF-8> unless you know what you're doing and unless you really benefit from using C<UTF-16>.

ISO-IR-165 [RFC1345]
VISCII
GB 12345
GB 18030 (**) (see links below)
EUC-TW (**) are totally valid encodings but not registered at IANA. The names under which they are listed here are probably the most widely-known names for these encodings and are recommended names.

BIG5PLUS (**) is a proprietary name.

Microsoft-related naming mess

Microsoft products misuse the following names:

over 2

KS_C_5601-1987

Microsoft extension to C<EUC-KR>.

Proper names: C<CP949>, C<UHC>, C<x-windows-949> (as used by Mozilla).

Encode aliases C<KS_C_5601-1987> to C<cp949> to reflect this common misusage. I<Raw> C<KS_C_5601-1987> encoding is available as C<kcs5601-raw>.

See L<Encode::KR> for details.

=item GB2312

Microsoft extension to C<EUC-CN>.

Proper names: C<CP936>, C<GBK>.

C<GB2312> has been registered in the C<EUC-CN> meaning at IANA. This has partially repaired the situation: Microsoft's C<GB2312> has become a superset of the official C<GB2312>.

Encode aliases C<GB2312> to C<euc-cn> in full agreement with IANA registration. C<cp936> is supported separately.

I<Raw> C<GB_2312-80> encoding is available as C<gb2312-raw>.

See L<Encode::CN> for details.

=item Big5

Microsoft extension to C<Big5>.

Proper name: C<CP950>.

Encode separately supports C<Big5> and C<cp950>.

=item Shift_JIS

Microsoft's understanding of C<Shift_JIS>.

JIS has not endorsed the full Microsoft standard however. The official C<Shift_JIS> includes only JIS X 0201 and JIS X 0208 character sets, while Microsoft has always used C<Shift_JIS> to encode a wider character repertoire. See C<IANA> registration for C<Windows-31J>.

As a historical predecessor, Microsoft's variant probably has more rights for the name, though it may be objected that Microsoft shouldn't have used JIS as part of the name in the first place.

Unambiguous name: C<CP932>. C<IANA> name (also used by Mozilla, and provided as an alias by Encode): C<Windows-31J>. 
Encode separately supports C<Shift_JIS> and C<cp932>.

=head1 Glossary

=item character repertoire

A collection of unique characters. A I<character> set in the strictest sense. At this stage, characters are not numbered.

=item coded character set (CCS)

A character set that is mapped in a way computers can use directly. Many character encodings, including EUC, fall in this category.

=item character encoding scheme (CES)

An algorithm to map a character set to a byte sequence. You don't have to be able to tell which character set a given byte sequence belongs. 7-bit ISO-2022 is a CES but it cannot be a CCS. EUC is an example of being both a CCS and CES.

=item charset (in MIME context)

has long been used in the meaning of C<encoding>, CES.

While the word combination C<character set> has lost this meaning in MIME context since [RFC 2130], the C<charset> abbreviation has retained it. This is how [RFC 2277] and [RFC 2278] bless C<charset>:

This document uses the term "charset" to mean a set of rules for mapping from a sequence of octets to a sequence of characters, such as the combination of a coded character set and a character encoding scheme; this is also what is used as an identifier in MIME "charset=" parameters, and registered in the IANA charset registry ... (Note that this is NOT a term used by other standards bodies, such as ISO).

=item EUC


=item ISO-2022

A CES that was carefully designed to coexist with ASCII. There are a 7
bit version and an 8 bit version.

The 7 bit version switches character set via escape sequence so it cannot form a CCS. Since this is more difficult to handle in programs than the 8 bit version, the 7 bit version is not very popular except for iso-2022-jp, the I<de facto> standard CES for e-mails.

The 8 bit version can form a CCS. EUC and ISO-8859 are two examples thereof. Pre-5.6 perl could use them as string literals.

=item UCS

Short for I<Universal Character Set>. When you say just UCS, it means I<Unicode>.

=item UCS-2

ISO/IEC 10646 encoding form: Universal Character Set coded in two octets.

=item Unicode

A character set that aims to include all character repertoires of the world. Many character sets in various national as well as industrial standards have become, in a way, just subsets of Unicode.

=item UTF

Short for I<Unicode Transformation Format>. Determines how to map a Unicode character into a byte sequence.

=item UTF-16

A UTF in 16-bit encoding. Can either be in big-endian or little endian. The big endian version is called UTF-16BE (equal to UCS-2 + surrogate support) and the little endian version is called UTF-16LE.

=head1 See Also

L<Encode>, L<Encode::Byte>, L<Encode::CN>, L<Encode::JP>, L<Encode::KR>, L<Encode::TW>, L<Encode::EBCDIC>, L<Encode::Symbol> L<Encode::MIME::Header>, L<Encode::Guess>

=head1 References
=item ECMA

European Computer Manufacturers Association
L<http://www.ecma.ch>

=back

=item ECMA-035 (eq C<ISO-2022>)

L<http://www.ecma.ch/ecma1/STAND/ECMA-035.HTM>

The specification of ISO-2022 is available from the link above.

=item IANA

Internet Assigned Numbers Authority
L<http://www.iana.org/>

=back

=item Assigned Charset Names by IANA

L<http://www.iana.org/assignments/character-sets>

Most of the C<canonical names> in Encode derive from this list
so you can directly apply the string you have extracted from MIME
header of mails and web pages.

=back

=item ISO

International Organization for Standardization
L<http://www.iso.ch/>

=item RFC

Request For Comments -- need I say more?
L<http://www.faqs.org/rfcs/>

=item UC
Unicode Consortium
L<http://www.unicode.org/>

=over 2

=item Unicode Glossary
L<http://www.unicode.org/glossary/>

The glossary of this document is based upon this site.

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=back

=head2 Other Notable Sites

=over 2

=item czyborra.com
L<http://czyborra.com/>

Contains a lot of useful information, especially gory details of ISO
vs. vendor mappings.

=item CJK.inf
L<http://examples.oreilly.com/cjkvinfo/doc/cjk.inf>

Somewhat obsolete (last update in 1996), but still useful. Also try

You will find brief info on C<EUC-CN>, C<GBK> and mostly on C<GB 18030>.

=item Jungshik Shin's Hangul FAQ
L<http://jshin.net/faq>

And especially its subject 8.

L<http://jshin.net/faq/qa8.html>

A comprehensive overview of the Korean (C<KS *> ) standards.

=item debian.org: "Introduction to i18n"
A brief description for most of the mentioned CJK encodings is contained in

=back

=head2 Offline sources

=over 2

=item C<CJKV Information Processing> by Ken Lunde

CJKV Information Processing

The modern successor of C<CJK.inf>.

Features a comprehensive coverage of CJKV character sets and encodings along with many other issues faced by anyone trying to better support CJKV languages/scripts in all the areas of information processing.

To purchase this book, visit
L<http://oreilly.com/catalog/9780596514471/> or your favourite bookstore.

=back

=cut

Found in path(s):
* /opt/cola/permits/1150898667_1634081264.27/0/perl-Encode-2.51-7.amzn2.0.2.src.rpm-cosi-expand-archive-
QlJwYAqk/Encode-2.51.tar.gz-cosi-expand-archive-lq0yQJg/Encode-2.51/lib/Encode/Supported.pod
No license file was found, but licenses were detected in source scan.

---
abstract: unknown
author:
  - unknown
buildRequires:
  ExtUtils::MakeMaker: 0
configure_requires:
  ExtUtils::MakeMaker: 0
dynamic_config: 1
generated_by: 'ExtUtils::MakeMaker version 6.66, CPAN::Meta::Converter version 2.130880'
license: perl
meta-spec:
  url: http://module-build.sourceforge.net/META-spec-v1.4.html
1.803 twisted 17.9.0-2ubuntu0.1

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1.817 libxfixes 5.0.3-1

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@version 3.0 (December 2000)

Optimised ANSI C code for the Rijndael cipher (now AES)

@author Vincent Rijmen <vincent.rijmen@esat.kuleuven.ac.be>
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D3DES (V5.09) -

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Written with Symantec's THINK (Lightspeed) C by Richard Outerbridge. Thanks to: Dan Hoey for his excellent Initial and Inverse permutation code; Jim Gillogly & Phil Karn for the DES key schedule code; Dennis Ferguson, Eric Young and Dana How for comparing notes; and Ray Lau, for humouring me on.

(GEnie : OUTER; CIS : [71755,204]) Graven Imagery, 1992.

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Windows support

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* Rob Siemborski
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1.825 man-db 2.8.3 2ubuntu0.1

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import: ../../../../fossene/db/schema/thing.yml
fields:
  site: string
  author: root
1.832 nspr 4.21

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THE BASIC LIBRARY FUNCTIONS

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set xtics rotate by -45
set style histogram errorbars gap 2 lw 1
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1.847 httpcomponents-mime 4.5.2

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Protocol Buffers for Go with Gadgets

Go support for Protocol Buffers - Google's data interchange format

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https://github.com/golang/protobuf

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1.856 linux-kernel 5.4.0-1043.45~18.04.1

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1.857 python-dateutil 2.6.0-3.amzn2.0.1

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1.858 cyrus-sasl 2.1.27

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1.859 purell 1.1.1

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Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see http://www.cnri.reston.va.us) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations, which became Zope Corporation. In 2001, the Python Software Foundation (PSF, see https://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation was a sponsoring member of the PSF.

All Python releases are Open Source (see http://www.opensource.org for the Open Source Definition). Historically, most, but not all, Python releases have also been GPL-compatible; the table below summarizes the various releases.

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<th>Year</th>
<th>Owner</th>
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Thanks to the many outside volunteers who have worked under Guido's direction to make these releases possible.

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#require unix-permissions no-root

$ hg init a
$ cd a
$ echo foo > b
$ hg add b
$ hg ci -m "b"

$ chmod -w .hg/store

$ cd ..

$ hg clone a b
requesting all changes
adding changesets
adding manifests
adding file changes
added 1 changesets with 1 changes to 1 files
updating to branch default
1 files updated, 0 files merged, 0 files removed, 0 files unresolved
$ chmod +w a/.hg/store # let test clean up

$ cd b
$ hg verify
checking changesets
checking manifests
crosschecking files in changesets and manifests
checking files
1 files, 1 changesets, 1 total revisions

$ cd ..

Greg Ward, author of the original bfiles extension
Na'Tosha Bard of Unity Technologies
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Yoyodyne, Inc., hereby disclaims all copyright interest in the library `Frob' (a library for tweaking knobs) written by James Random Hacker.
That's all there is to it!

use Cancellable;
use Error;
use ffi;
use glib;
use glib::object::Downcast;
use glib::object::IsA;
use glib::signal::SignalHandlerId;
use glib::signal::connect;
use glib::translate::*;
use glib ffi;
use gobject ffi;
use std::boxed::Box as Box;
use std::mem;
use std::mem::transmute;
use std::ptr;

pub struct Permission(Object<ffi::GPermission, ffi::GPermissionClass>);

match fn {
    get_type => || ffi::g_permission_get_type(),
}

pub trait PermissionExt {
    fn acquire<'a, P: Into<Option<&'a Cancellable>>>(&self, cancellable: P) -> Result<(), Error>;

    fn acquire_async<'a, P: Into<Option<&'a Cancellable>>, Q: FnOnce(Result<(), Error>) + Send + 'static>(&self, cancellable: P, callback: Q);

    fn get_allowed(&self) -> bool;

    fn get_can_acquire(&self) -> bool;

    fn get_can_release(&self) -> bool;

    fn impl_update(&self, allowed: bool, can_acquire: bool, can_release: bool);

    fn release<'a, P: Into<Option<&'a Cancellable>>(&self, cancellable: P) -> Result<(), Error>;
}
fn release_async<'a, P: Into<Option<&'a Cancellable>>, Q: FnOnce(Result<(), Error>) + Send + 'static>(&self, cancellable: P, callback: Q);

fn connect_property_allowed_notify<F: Fn(&Self) + 'static>(&self, f: F) -> SignalHandlerId;

fn connect_property_can_acquire_notify<F: Fn(&Self) + 'static>(&self, f: F) -> SignalHandlerId;

fn connect_property_can_release_notify<F: Fn(&Self) + 'static>(&self, f: F) -> SignalHandlerId;

impl<O: IsA<Permission> + IsA<glib::object::Object>> PermissionExt for O {
    fn acquire<'a, P: Into<Option<&'a Cancellable>>>(&self, cancellable: P) -> Result<(), Error> {
        let cancellable = cancellable.into();
        let cancellable = cancellable.to_glib_none();
        unsafe {
            let mut error = ptr::null_mut();
            let _ = ffi::g_permission_acquire(self.to_glib_none().0, cancellable.0, &mut error);
            if error.is_null() { Ok(()) } else { Err(from_glib_full(error)) }
        }
    }

    fn acquire_async<'a, P: Into<Option<&'a Cancellable>>, Q: FnOnce(Result<(), Error>) + Send + 'static>(&self, cancellable: P, callback: Q) {
        let cancellable = cancellable.into();
        let cancellable = cancellable.to_glib_none();
        let user_data: Box<Box<Q>> = Box::new(Box::new(callback));
        unsafe extern "C" fn acquire_async_trampoline<Q: FnOnce(Result<(), Error>) + Send + 'static>(_source_object: *mut gobject_ffi::GObject, res: *mut ffi::GAsyncResult, user_data: glib_ffi::gpointer) {
            callback_guard!();
            let mut error = ptr::null_mut();
            let _ = ffi::g_permission_acquire_finish(_source_object as *mut _, res, &mut error);
            let result = if error.is_null() { Ok(()) } else { Err(from_glib_full(error)) };
            let callback: Box<Box<Q>> = Box::from_raw(user_data as *mut _);
            callback(result);
        }
        let callback = acquire_async_trampoline::<Q>;
        unsafe {
            ffi::g_permission_acquire_async(self.to_glib_none().0, cancellable.0, Some(callback), Box::into_raw(user_data) as *mut _);
        }
    }

    fn get_allowed(&self) -> bool {
        unsafe {
            from_glib(ffi::g_permission_get_allowed(self.to_glib_none().0))
        }
    }
}
fn get_can_acquire(&self) -> bool {
    unsafe {
        from_glib(ffi::g_permission_get_can_acquire(self.to_glib_none().0))
    }
}

fn get_can_release(&self) -> bool {
    unsafe {
        from_glib(ffi::g_permission_get_can_release(self.to_glib_none().0))
    }
}

fn impl_update(&self, allowed: bool, can_acquire: bool, can_release: bool) {
    unsafe {
        ffi::g_permission_impl_update(self.to_glib_none().0, allowed.to_glib(),
        can_acquire.to_glib(),
        can_release.to_glib());
    }
}

fn release<'a, P: Into<Option<&'a Cancellable>>>(&self, cancellable: P) -> Result<(), Error> {
    let cancellable = cancellable.into();
    let cancellable = cancellable.to_glib_none();
    unsafe {
        let mut error = ptr::null_mut();
        let _ = ffi::g_permission_release(self.to_glib_none().0, cancellable.0, &mut error);
        if error.is_null() { Ok(()) } else { Err(from_glib_full(error)) }
    }
}

fn release_async<'a, P: Into<Option<&'a Cancellable>>, Q: FnOnce(Result<(), Error>) + Send + 'static>(&self,
    cancellable: P, callback: Q) {
    let cancellable = cancellable.into();
    let cancellable = cancellable.to_glib_none();
    let user_data: Box<Box<Q>> = Box::new(Box::new(callback));
    unsafe extern "C" fn release_async_trampoline<Q: FnOnce(Result<(), Error>) + Send + 'static>(
        _source_object: *mut gobject_ffi::GObject, res: *mut ffi::GAsyncResult, user_data: glib_ffi::gpointer)
    {
        callback_guard!();
        let mut error = ptr::null_mut();
        let _ = ffi::g_permission_release_finish(_source_object as *mut _, res, &mut error);
        let result = if error.is_null() { Ok(()) } else { Err(from_glib_full(error)) };
        let callback: Box<Box<Q>> = Box::from_raw(user_data as *mut _);
        callback(result);
    }
    let callback = release_async_trampoline::<Q>;
    unsafe {

}
ffi::g_permission_release_async(self.to_glib_none().0, cancellable.0, Some(callback),
Box::into_raw(user_data) as *mut _);
}

fn connect_property_allowed_notify<F: Fn(&Self) + 'static>(&self, f: F) -> SignalHandlerId {
    unsafe {
        let f: Box_<Box_<Fn(&Self) + 'static>> = Box::new(Box::new(f));
        connect(self.to_glib_none().0, "notify::allowed",
            transmute(notify_allowed_trampoline::<Self> as usize), Box::into_raw(f) as *mut _)
    }
}

fn connect_property_can_acquire_notify<F: Fn(&Self) + 'static>(&self, f: F) -> SignalHandlerId {
    unsafe {
        let f: Box_<Box_<Fn(&Self) + 'static>> = Box::new(Box::new(f));
        connect(self.to_glib_none().0, "notify::can-acquire",
            transmute(notify_can_acquire_trampoline::<Self> as usize), Box::into_raw(f) as *mut _)
    }
}

fn connect_property_can_release_notify<F: Fn(&Self) + 'static>(&self, f: F) -> SignalHandlerId {
    unsafe {
        let f: Box_<Box_<Fn(&Self) + 'static>> = Box::new(Box::new(f));
        connect(self.to_glib_none().0, "notify::can-release",
            transmute(notify_can_release_trampoline::<Self> as usize), Box::into_raw(f) as *mut _)
    }
}

unsafe extern "C" fn notify_allowed_trampoline<P>(this: *mut ffi::GPermission, _param_spec: glib_ffi::gpointer, f: glib_ffi::gpointer)
where P: IsA<Permission> {
    callback_guard!();
    let f: &&(Fn(&P) + 'static) = transmute(f);
    f(&Permission::from_glib_borrow(this).downcast_unchecked())
}

unsafe extern "C" fn notify_can_acquire_trampoline<P>(this: *mut ffi::GPermission, _param_spec: glib_ffi::gpointer, f: glib_ffi::gpointer)
where P: IsA<Permission> {
    callback_guard!();
    let f: &&(Fn(&P) + 'static) = transmute(f);
    f(&Permission::from_glib_borrow(this).downcast_unchecked())
}

unsafe extern "C" fn notify_can_release_trampoline<P>(this: *mut ffi::GPermission, _param_spec: glib_ffi::gpointer, f: glib_ffi::gpointer)
where P: IsA<Permission> { 
callback_guard!();
let f: &&(Fn(&P) + 'static) = transmute(f);
f(&Permission::from_glib_borrow(this).downcast_unchecked())
}

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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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must be distributed under the terms of Sections 1 and 2 above on a
medium customarily used for software interchange.

If distribution of object code is made by offering access to copy
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compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the
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When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

As an exception to the Sections above, you may also compile or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

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b) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

c) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

d) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

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b) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by a written offer, valid for at least three years and valid for as long as you offer spare parts or customer support for that product model, to give anyone who possesses the object code either (1) a copy of the Corresponding Source for all the software in the product that is covered by this License, on a durable physical medium customarily used for software interchange, for a price no more than your reasonable cost of physically performing this conveying of source, or (2) access to copy the Corresponding Source from a network server at no charge.

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d) Convey the object code by offering access from a designated place (gratis or for a charge), and offer equivalent access to the Corresponding Source in the same way through the same place at no
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Bnd-LastModified: 1581522120815
Bundle-Description: A library for invoking native functions from java
Bundle-License: http://www.apache.org/licenses/LICENSE-2.0.txt
Bundle-ManifestVersion: 2
Bundle-Name: jnr-ffi
Bundle-SymbolicName: com.github.jnr.ffi
Bundle-Version: 2.1.12
Export-Package: jnr.ffi;version="2.1.12",jnr.ffi.annotations;version="2.1.12",jnr.ffi.byref;version="2.1.12",jnr.ffi.mapper;version="2.1.12",jnr.ffi.provider;version="2.1.12",jnr.ffi.provider.converters;version="2.1.12",jnr.ffi.provider.jffi;version="2.1.12",jnr.ffi.provider.jffi.platform.aarch64.linux;version="2.1.12",jnr.ffi.provider.jffi.platform.arm.linux;version="2.1.12",jnr.ffi.provider.jffi.platform.i386.darwin;version="2.1.12",jnr.ffi.provider.jffi.platform.i386.freebsd;version="2.1.12",jnr.ffi.provider.jffi.platform.i386.linux;version="2.1.12",jnr.ffi.provider.jffi.platform.i386.openbsd;version="2.1.12",jnr.ffi.provider.jffi.platform.i386.solaris;version="2.1.12",jnr.ffi.provider.jffi.platform.mips.linux;version="2.1.12",jnr.ffi.provider.jffi.platform.mipsel.linux;version="2.1.12",jnr.ffi.provider.jffi.platform.ppc.axis;version="2.1.12",jnr.ffi.provider.jffi.platform.ppc.darwin;version="2.1.12",jnr.ffi.provider.jffi.platform.ppc64.linux;version="2.1.12",jnr.ffi.provider.jffi.platform.ppc64le.linux;version="2.1.12",jnr.ffi.provider.jffi.platform.s390.linux;version="2.1.12",jnr.ffi.provider.jffi.platform.sparc.solaris;version="2.1.12",jnr.ffi.provider.jffi.platform.sparcv9.linux;version="2.1.12",jnr.ffi.provider.jffi.platform.sparcv9.solaris;version="2.1.12",jnr.ffi.provider.jffi.platform.x86_64.darwin;version="2.1.12",jnr.ffi.provider.jffi.platform.x86_64.dragonfly;version="2.1.12",jnr.ffi.provider.jffi.platform.x86_64.freebsd;version="2.1.12",jnr.ffi.provider.jffi.platform.x86_64.linux;version="2.1.12",jnr.ffi.provider.jffi.platform.x86_64.openbsd;version="2.1.12",jnr.ffi.provider.jffi.platform.x86_64.solaris;version="2.1.12",jnr.ffi.provider.jffi.platform.x86_64.windows;version="2.1.12",jnr.ffi.types;version="2.1.12",jnr.ffi.util;version="2.1.12",jnr.ffi.util.ref;version="2.1.12"
Import-Package: com.kenai.jffi,jnr.a64asm,jnr.x86asm.org.objectweb.asm;version='[7.1,8)"
Tool: Bnd-1.50.0

Found in path(s):
* /opt/cola/permits/1152577707_1618257357.0/0/jnr-ffi-2-1-12-jar/META-INF/MANIFEST.MF

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Found in path(s):
* /opt/cola/permits/1152577707_1618257357.0/0/jnr-ffi-2-1-12-jar/META-INF/maven/com.github.jnr/jnr-ffi/pom.xml
1.894 ini 1.55.0

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import: ../../../../fossene/db/schema/thing.yml
fields:
site: string
author: root

1.896 sprig 2.22.0+incompatible
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1.897 netbase 5.4

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1.898 zlib 1.2.11

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/* zlib.h -- interface of the 'zlib' general purpose compression library
 version 1.2.11, January 15th, 2017

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1.899 sysv-init 2.88dsf 59.10ubuntu1

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Send patches to sysvinit-devel@nongnu.org

The of the start-stop-daemon

* A rewrite of the original Debian's start-stop-daemon Perl script
* in C (faster - it is executed many times during system startup).
* Written by Marek Michalkiewicz <marekm@i17linuxb.ists.pwr.wroc.pl>,
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1.900 d3-array 1.2.4

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1.903 libpsl 0.17.0-3

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1.908 flexmark-ext-superscript 0.40.32

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1.909 coreutils 8.31

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------------
. The `grn' preprocessor, written by Barry Roitblat <barry@rentonww.com> and David Slattengren <slatteng@Xinet.COM>. These files have been part of the original Berkeley ditroff distribution, without AT&T code, and are in the public domain.


```
src/preproc/grn/gprint.h
src/preproc/grn/hdb.cpp
src/preproc/grn/hgraph.cpp
src/preproc/grn/hpoint.cpp
src/preproc/grn/main.cpp
```

. The `gxditview' output device. It is based on X11's `xditview' program and thus has the X license.

```
src/devices/xditview/DESC.in
src/devices/xditview/Dvi.c
src/devices/xditview/Dvi.h
src/devices/xditview/DviP.h
src/devices/xditview/FontMap
src/devices/xditview/GXditview.ad
src/devices/xditview/Menu.h
src/devices/xditview/ad2c
src/devices/xditview/device.c
src/devices/xditview/device.h
src/devices/xditview/draw.c
src/devices/xditview/font.c
src/devices/xditview/gray1.bm
src/devices/xditview/gray2.bm
src/devices/xditview/gray3.bm
src/devices/xditview/gray4.bm
src/devices/xditview/gray5.bm
src/devices/xditview/gray6.bm
src/devices/xditview/gray7.bm
```
Macro Packages
-------------

. The -mdoc macro set, using the BSD license.

  tmac/doc.tmac
tmac/doc-old.tmac
tmac/doc-common
tmac/doc-ditroff
tmac/doc-nroff
tmac/doc-syms
tmac/groff_mdoc.man

. The -me macro set, using the BSD license.

  tmac/e.tmac
tmac/groff_me.man
doc/meintro.me
doc/meintro_fr.me
doc/meref.me

Hyphenation Patterns
---------------------

. The file `tmac/hyphen.us' is identical to the file `hyphen.tex', part of
the TeX system written by Donald E. Knuth; the master file can be found
at

  ftp://labrea.stanford.edu/pub/tex/dist/lib/hyphen.tex

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The file `tmac/hyphen.fr' contains the same patterns as the file `frhyph.tex' (for TeX), which can be found at

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The files `tmac/hyphen.det' and `tmac/hyphen.den' contain the same patterns as the files `dehyph-x-2017-03-31.pat' and `dehyphn-x-2017-03-31.pat' (for TeX), respectively, which can be found at

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The file `tmac/hyphen.cs' contains the same patterns as the file `czhyphen.tex' (for TeX), which can be found in the archive

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- *- text -*-

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1.926 libyaml 0.2.2

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1.9.27.1 json-c 0.13.1

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1.928 libx11 1.6.4-3+deb9u1

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1.941 ncurses 6.0-8.20170212.amzn2.1.3
1.941.1 Available under license :
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Current ncurses maintainer: Thomas Dickey <dickey@invisible-island.net>

-----------------------------------------------
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-- vile:txtmode fc=72
-- $Id: COPYING,v 1.9 2020/02/08 13:34:12 tom Exp $

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>>> freebsd-base64-4.8
>>> unicode-5.0

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$OpenLDAP: pkg/ldap/libraries/liblutil/base64.c,v 1.15 2006/01/03 22:12:11 kurt Exp $ /This work is part of OpenLDAP Software <http://www.openldap.org/>.

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1.950 libpthread-stubs 0.3-4

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1.951 bzip2 1.0.6-13.amzn2.0.2

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Julian Seward, jseward@acm.org
bzip2/libbzip2 version 1.0.8 of 13 July 2019

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1.952 redux-logger 3.0.6
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1.953 opensaml-xmlsec-api 3.3.0
1.953.1 Available under license :
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Schema for XML Signatures
http://www.w3.org/2000/09/xmldsig#
$Revision: 1.2 $ on $Date: 2005/06/03 03:09:54 $ by $Author: cantor$

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 */

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* /opt/cola/permits/1000740405_1646171489.23/0/opensaml-xmlsec-api-3-3-0-sources-jar/org/opensaml/xmlsec/signature/SignableXMLObject.java
* /opt/cola/permits/1000740405_1646171489.23/0/opensaml-xmlsec-api-3-3-0-sources-jar/org/opensaml/xmlsec/algorithm/AlgorithmRegistry.java
* /opt/cola/permits/1000740405_1646171489.23/0/opensaml-xmlsec-api-3-3-0-sources-jar/org/opensaml/xmlsec/algorithm/descriptors/DigestSHA512.java
* /opt/cola/permits/1000740405_1646171489.23/0/opensaml-xmlsec-api-3-3-0-sources-jar/org/opensaml/xmlsec/EncryptionParameters.java
* /opt/cola/permits/1000740405_1646171489.23/0/opensaml-xmlsec-api-3-3-0-sources-jar/org/opensaml/xmlsec/crypto/XMLSigningUtil.java
* /opt/cola/permits/1000740405_1646171489.23/0/opensaml-xmlsec-api-3-3-0-sources-jar/org/opensaml/xmlsec/encryption/CarriedKeyName.java
* /opt/cola/permits/1000740405_1646171489.23/0/opensaml-xmlsec-api-3-3-0-sources-jar/org/opensaml/xmlsec/algorithm/descriptors/SymmetricKeyWrapAES128.java
* /opt/cola/permits/1000740405_1646171489.23/0/opensaml-xmlsec-api-3-3-0-sources-jar/org/opensaml/xmlsec/algorithm/descriptors/HMACSHA224.java
* /opt/cola/permits/1000740405_1646171489.23/0/opensaml-xmlsec-api-3-3-0-sources-jar/org/opensaml/xmlsec/signature/Transforms.java
The extracted text contains a list of file paths related to the `opensaml-xmlsec-api-3-3-0-sources.jar` directory. The paths include:

- /opt/cola/permits/1000740405_1646171489.23/0/opensaml-xmlsec-api-3-3-0-sources.jar/org/opensaml/xmlsec/permits/1000740405_1646171489.23/0/opensaml-xmlsec-api-3-3-0-sources.jar
- /opt/cola/permits/1000740405_1646171489.23/0/opensaml-xmlsec-api-3-3-0-sources.jar/org/opensaml/xmlsec/KeyTransportAlgorithmPredicate.java
- /opt/cola/permits/1000740405_1646171489.23/0/opensaml-xmlsec-api-3-3-0-sources.jar/org/opensaml/xmlsec/criterion/EncryptionOptionalCriterion.java
- /opt/cola/permits/1000740405_1646171489.23/0/opensaml-xmlsec-api-3-3-0-sources.jar/org/opensaml/xmlsec/criterion/EncryptionConfigurationCriterion.java
- /opt/cola/permits/1000740405_1646171489.23/0/opensaml-xmlsec-api-3-3-0-sources.jar/org/opensaml/xmlsec/encryption/ReferenceType.java
- /opt/cola/permits/1000740405_1646171489.23/0/opensaml-xmlsec-api-3-3-0-sources.jar/org/opensaml/xmlsec/encryption/CipherData.java
- /opt/cola/permits/1000740405_1646171489.23/0/opensaml-xmlsec-api-3-3-0-sources.jar/org/opensaml/xmlsec/encryption/support/RSAOAEPParameters.java
- /opt/cola/permits/1000740405_1646171489.23/0/opensaml-xmlsec-api-3-3-0-sources.jar/org/opensaml/xmlsec/algorithm/package-info.java
- /opt/cola/permits/1000740405_1646171489.23/0/opensaml-xmlsec-api-3-3-0-sources.jar/org/opensaml/xmlsec/algorithm/SignatureValidationParametersResolver.java
- /opt/cola/permits/1000740405_1646171489.23/0/opensaml-xmlsec-api-3-3-0-sources.jar/org/opensaml/xmlsec/algorithm/SignatureValidationConfiguration.java
- /opt/cola/permits/1000740405_1646171489.23/0/opensaml-xmlsec-api-3-3-0-sources.jar/org/opensaml/xmlsec/keyinfo/package-info.java
- /opt/cola/permits/1000740405_1646171489.23/0/opensaml-xmlsec-api-3-3-0-sources.jar/org/opensaml/xmlsec/signature/DSAKeyValue.java
- /opt/cola/permits/1000740405_1646171489.23/0/opensaml-xmlsec-api-3-3-0-sources.jar/org/opensaml/xmlsec/signature/DSAKeyValue.java
- /opt/cola/permits/1000740405_1646171489.23/0/opensaml-xmlsec-api-3-3-0-sources.jar/org/opensaml/xmlsec/signature/SignatureAlgorithm.java
* /opt/cola/permits/1000740405_1646171489.23/0/opensaml-xmlsec-api-3-3-0-sources.jar/org/opensaml/xmlsec/algorithms/descriptors/BlockEncryptionAES192CBC.java
* /opt/cola/permits/1000740405_1646171489.23/0/opensaml-xmlsec-api-3-3-0-sources.jar/org/opensaml/xmlsec/algorithms/KeyAgreementAlgorithm.java
* /opt/cola/permits/1000740405_1646171489.23/0/opensaml-xmlsec-api-3-3-0-sources.jar/org/opensaml/xmlsec/signature/KeyInfoReference.java
* /opt/cola/permits/1000740405_1646171489.23/0/opensaml-xmlsec-api-3-3-0-sources.jar/org/opensaml/xmlsec/DecryptionConfiguration.java
* /opt/cola/permits/1000740405_1646171489.23/0/opensaml-xmlsec-api-3-3-0-sources.jar/org/opensaml/xmlsec/signature/Q.java
* /opt/cola/permits/1000740405_1646171489.23/0/opensaml-xmlsec-api-3-3-0-sources.jar/org/opensaml/xmlsec/signature/J.java
* /opt/cola/permits/1000740405_1646171489.23/0/opensaml-xmlsec-api-3-3-0-sources.jar/org/opensaml/xmlsec/keyinfo/KeyInfoGeneratorFactory.java
* /opt/cola/permits/1000740405_1646171489.23/0/opensaml-xmlsec-api-3-3-0-sources.jar/org/opensaml/xmlsec/criterion/DecryptionConfigurationCriterion.java
* /opt/cola/permits/1000740405_1646171489.23/0/opensaml-xmlsec-api-3-3-0-sources.jar/org/opensaml/xmlsec/encryption/AlgorithmIdentifierType.java
* /opt/cola/permits/1000740405_1646171489.23/0/opensaml-xmlsec-api-3-3-0-sources.jar/org/opensaml/xmlsec/signature/support/Signer.java
* /opt/cola/permits/1000740405_1646171489.23/0/opensaml-xmlsec-api-3-3-0-sources.jar/org/opensaml/xmlsec/encryption/DHKeyValue.java
* /opt/cola/permits/1000740405_1646171489.23/0/opensaml-xmlsec-api-3-3-0-sources.jar/org/opensaml/xmlsec/algorithm/descriptors/DigestSHA224.java
* /opt/cola/permits/1000740405_1646171489.23/0/opensaml-xmlsec-api-3-3-0-sources-jar/org/opensaml/xmlsec/signature/X509Data.java
* /opt/cola/permits/1000740405_1646171489.23/0/opensaml-xmlsec-api-3-3-0-sources-jar/org/opensaml/xmlsec/encryption/support/AbstractEncryptedKeyResolver.java
* /opt/cola/permits/1000740405_1646171489.23/0/opensaml-xmlsec-api-3-3-0-sources-jar/org/opensaml/xmlsec/signature/support/SignaturePrevalidator.java
* /opt/cola/permits/1000740405_1646171489.23/0/opensaml-xmlsec-api-3-3-0-sources-jar/org/opensaml/xmlsec/signature/SPKIData.java
* /opt/cola/permits/1000740405_1646171489.23/0/opensaml-xmlsec-api-3-3-0-sources-jar/org/opensaml/xmlsec/encryption/AgreementMethod.java
* /opt/cola/permits/1000740405_1646171489.23/0/opensaml-xmlsec-api-3-3-0-sources-jar/org/opensaml/xmlsec/algorithm/descriptors/SymmetricKeyWrapAES192.java
* /opt/cola/permits/1000740405_1646171489.23/0/opensaml-xmlsec-api-3-3-0-sources-jar/org/opensaml/xmlsec/algorithm/descriptors/SignatureDSASHA256.java
* /opt/cola/permits/1000740405_1646171489.23/0/opensaml-xmlsec-api-3-3-0-sources-jar/org/opensaml/xmlsec/algorithm/descriptors/KeyTransportRSAOAEPMGF1P.java
* /opt/cola/permits/1000740405_1646171489.23/0/opensaml-xmlsec-api-3-3-0-sources-jar/org/opensaml/xmlsec/algorithm/descriptors/SignatureECDSASHA256.java
* /opt/cola/permits/1000740405_1646171489.23/0/opensaml-xmlsec-api-3-3-0-sources-jar/org/opensaml/xmlsec/signature/DEREncodedKeyValue.java
* /opt/cola/permits/1000740405_1646171489.23/0/opensaml-xmlsec-api-3-3-0-sources-jar/org/opensaml/xmlsec/signature/support/package-info.java
* /opt/cola/permits/1000740405_1646171489.23/0/opensaml-xmlsec-api-3-3-0-sources-jar/org/opensaml/xmlsec/algorithm/KeyTransportAlgorithm.java
* /opt/cola/permits/1000740405_1646171489.23/0/opensaml-xmlsec-api-3-3-0-sources-jar/org/opensaml/xmlsec/signature/Signature.java
* /opt/cola/permits/1000740405_1646171489.23/0/opensaml-xmlsec-api-3-3-0-sources-jar/org/opensaml/xmlsec/signature/PgenCounter.java
* /opt/cola/permits/1000740405_1646171489.23/0/opensaml-xmlsec-api-3-3-0-sources-jar/org/opensaml/xmlsec/algorithm/descriptors/SignatureDSASHA256.java
* /opt/cola/permits/1000740405_1646171489.23/0/opensaml-xmlsec-api-3-3-0-sources-jar/org/opensaml/xmlsec/algorithm/descriptors/package-info.java
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* /opt/cola/permits/1000740405_1646171489.23/0/opensaml-xmlsec-api-3-3-0-sources-jar/org/opensaml/xmlsec/signature/SignatureSigningParameters.java
* /opt/cola/permits/1000740405_1646171489.23/0/opensaml-xmlsec-api-3-3-0-sources-jar/org/opensaml/xmlsec/encryption/CipherValue.java
* /opt/cola/permits/1000740405_1646171489.23/0/opensaml-xmlsec-api-3-3-0-sources-jar/org/opensaml/xmlsec/algorithm/descriptors/BlockEncryptionAES128GCM.java
* /opt/cola/permits/1000740405_1646171489.23/0/opensaml-xmlsec-api-3-3-0-sources-jar/org/opensaml/xmlsec/signature/support/SignaturePrevalidator.java
* /opt/cola/permits/1000740405_1646171489.23/0/opensaml-xmlsec-api-3-3-0-sources-jar/org/opensaml/xmlsec/algorithm/descriptors/SymmetricKeyWrapAES128.java
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* /opt/cola/permits/1000740405_1646171489.23/0/opensaml-xmlsec-api-3-3-0-sources-jar/org/opensaml/xmlsec/signature/PGPKeyPacket.java
* /opt/cola/permits/1000740405_1646171489.23/0/opensaml-xmlsec-api-3-3-0-sources-jar/org/opensaml/xmlsec/signature/X509Data.java
* /opt/cola/permits/1000740405_1646171489.23/0/opensaml-xmlsec-api-3-3-0-sources-jar/org/opensaml/xmlsec/encryption/EncryptedKey.java
* /opt/cola/permits/1000740405_1646171489.23/0/opensaml-xmlsec-api-3-3-0-sources-jar/org/opensaml/xmlsec/algorithm/descriptors/HMACSHA384.java
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* /opt/cola/permits/1000740405_1646171489.23/0/opensaml-xmlsec-api-3-3-0-sources-jar/org/opensaml/xmlsec/signature/ECPointType.java
* /opt/cola/permits/1000740405_1646171489.23/0/opensaml-xmlsec-api-3-3-0-sources-jar/org/opensaml/xmlsec/signature/SignatureSigningParametersResolver.java
* /opt/cola/permits/1000740405_1646171489.23/0/opensaml-xmlsec-api-3-3-0-sources-jar/org/opensaml/xmlsec/signature/SignatureSigningParametersResolver.java
* /opt/cola/permits/1000740405_1646171489.23/0/opensaml-xmlsec-api-3-3-0-sources-jar/org/opensaml/xmlsec/keyinfo/KeyInfoCredentialResolver.java
* /opt/cola/permits/1000740405_1646171489.23/0/opensaml-xmlsec-api-3-3-0-sources-jar/org/opensaml/xmlsec/algorithm/descriptors/SymmetricKeyWrapAES256.java
* /opt/cola/permits/1000740405_1646171489.23/0/opensaml-xmlsec-api-3-3-0-sources-jar/org/opensaml/xmlsec/algorithm/descriptors/SignatureRSARIPEMD160.java
* /opt/cola/permits/1000740405_1646171489.23/0/opensaml-xmlsec-api-3-3-0-sources-jar/org/opensaml/xmlsec/encryption/Seed.java
* /opt/cola/permits/1000740405_1646171489.23/0/opensaml-xmlsec-api-3-3-0-sources-jar/org/opensaml/xmlsec/algorithm/descriptors/SignatureRSAMD5.java
* /opt/cola/permits/1000740405_1646171489.23/0/opensaml-xmlsec-api-3-3-0-sources-jar/org/opensaml/xmlsec/criterion/SignatureValidationConfigurationCriterion.java
* /opt/cola/permits/1000740405_1646171489.23/0/opensaml-xmlsec-api-3-3-0-sources-jar/org/opensaml/xmlsec/algorithm/descriptors/SymmetricKeyWrapDESede.java
* /opt/cola/permits/1000740405_1646171489.23/0/opensaml-xmlsec-api-3-3-0-sources-jar/org/opensaml/xmlsec/DecryptionParameters.java
* /opt/cola/permits/1000740405_1646171489.23/0/opensaml-xmlsec-api-3-3-0-sources-jar/org/opensaml/xmlsec/encryption/EncryptionProperty.java
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Found in path(s):
* /opt/cola/permits/1000740405_1646171489.23/0/opensaml-xmlsec-api-3-3-0-sources-jar/schema/xenc11-schema.xsd

1.954 sysstat 10.1.5-18.amzn2.0.1

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1.955 xz 5.2.2-1.2+b1

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### 1.962 errors 0.9.1

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1.963 python-configobj 4.7.2-7.amzn2
1.963.1 Available under license :

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Metadata-Version: 1.1
Name: configobj
Version: 5.0.6
Summary: Config file reading, writing and validation.
Home-page: https://github.com/DiffSK/configobj
Author: Rob Dennis, Eli Courtwright (Michael Foord & Nicola Larosa original maintainers)
Author-email: rdennis-configobj@gmail.com, eli@courtwright.org, fuzzyman@voidspace.co.uk, nico@tekNico.net
License: UNKNOWN
Description: **ConfigObj** is a simple but powerful config file reader and writer: an *ini
file round tripper*. Its main feature is that it is very easy to use, with a
straightforward programmer's interface and a simple syntax for config files.
It has lots of other features though :

* Nested sections (subsections), to any level
* List values
* Multiple line values
* Full Unicode support
* String interpolation (substitution)
* Integrated with a powerful validation system
  - including automatic type checking/conversion
  - and allowing default values
  - repeated sections

* All comments in the file are preserved
* The order of keys/sections is preserved
* Powerful `unrepr` mode for storing/retrieving Python data-types

| Release 5.0.6 improves error messages in certain edge cases
| Release 5.0.5 corrects a unicode-bug that still existed in writing files
| Release 5.0.4 corrects a unicode-bug that still existed in reading files after
| fixing lists of string in 5.0.3
| Release 5.0.3 corrects errors related to the incorrectly handling unicode
encoding and writing out files
Release 5.0.2 adds a specific error message when trying to install on
Python versions older than 2.5
Release 5.0.1 fixes a regression with unicode conversion not happening
in certain cases PY2
Release 5.0.0 updates the supported Python versions to 2.6, 2.7, 3.2, 3.3
and is otherwise unchanged
Release 4.7.2 fixes several bugs in 4.7.1
Release 4.7.1 fixes a bug with the deprecated options keyword in
4.7.0.
Release 4.7.0 improves performance adds features for validation and
fixes some bugs.

Keywords: config.ini.dictionary.application.admin.sysadmin.configuration.validation
Platform: UNKNOWN
Classifier: Development Status :: 6 - Mature
Classifier: Intended Audience :: Developers
Classifier: License :: OSI Approved :: BSD License
Classifier: Programming Language :: Python
Classifier: Programming Language :: Python :: 2
Classifier: Programming Language :: Python :: 2.6
Classifier: Programming Language :: Python :: 2.7
Classifier: Programming Language :: Python :: 3
Classifier: Programming Language :: Python :: 3.2
Classifier: Programming Language :: Python :: 3.3
Classifier: Operating System :: OS Independent
Classifier: Topic :: Software Development :: Libraries
Classifier: Topic :: Software Development :: Libraries :: Python Modules

Found in path(s):
* /opt/cola/permits/1150898686_1643236974.63/0/configobj-5-0-6-tar-gz/configobj-5.0.6/PKG-INFO
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* /opt/cola/permits/1150898686_1643236974.63/0/configobj-5-0-6-tar-gz/configobj-5.0.6/configobj.py
* /opt/cola/permits/1150898686_1643236974.63/0/configobj-5-0-6-tar-gz/configobj-5.0.6/validate.py
* /opt/cola/permits/1150898686_1643236974.63/0/configobj-5-0-6-tar-gz/configobj-5.0.6/setup.py

1.964 groff 1.22.2-8.amzn2.0.2

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Source Files
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. The `grn' preprocessor, written by Barry Roitblat <barry@rentonww.com> and David Slattengren <slatteng@Xinet.COM>. These files have been part of the original Berkeley ditroff distribution, without AT&T code, and are in the public domain.


    src/preproc/grn/gprint.h
    src/preproc/grn/hdb.cpp
    src/preproc/grn/hgraph.cpp
    src/preproc/grn/hpoint.cpp
    src/preproc/grn/main.cpp

. The `gxditview' output device. It is based on X11's `xditview' program
and thus has the X license.

src/devices/xditview/DESC.in
src/devices/xditview/Dvi.c
src/devices/xditview/Dvi.h
src/devices/xditview/DviP.h
src/devices/xditview/FontMap
src/devices/xditview/GXditview.ad
src/devices/xditview/Menu.h
src/devices/xditview/ad2c
src/devices/xditview/device.c
src/devices/xditview/device.h
src/devices/xditview/draw.c
src/devices/xditview/font.c
src/devices/xditview/gray1.bm
src/devices/xditview/gray2.bm
src/devices/xditview/gray3.bm
src/devices/xditview/gray4.bm
src/devices/xditview/gray5.bm
src/devices/xditview/gray6.bm
src/devices/xditview/gray7.bm
src/devices/xditview/gray8.bm
src/devices/xditview/gxditview.man
src/devices/xditview/lex.c
src/devices/xditview/page.c
src/devices/xditview/parse.c
src/devices/xditview/xdit.bm
src/devices/xditview/xdit_mask.bm
src/devices/xditview/xditview.c

src/include/DviChar.h
src/include/XFontName.h

src/libs/libxutil/DviChar.c
src/libs/libxutil/XFontName.c

Macro Packages
--------------

. The -mdoc macro set, using the BSD license.

tmac/doc.tmac
tmac/doc-old.tmac
tmac/doc-common
tmac/doc-ditroff
tmac/doc-nroff
tmac/doc-syms
tmac/groff_mdoc.man

- The -me macro set, using the BSD license.

tmac/e.tmac
tmac/groff_me.man
doc/meintro.me
doc/meintro_fr.me
doc/meref.me

Hyphenation Patterns
---------------------

The file `tmac/hyphen.us' is identical to the file `hyphen.tex', part of the TeX system written by Donald E. Knuth; the master file can be found at

ftp://labrea.stanford.edu/pub/tex/dist/lib/hyphen.tex

It has been renamed for consistency, i.e., to make patterns available under the filenames `hyphen.<language>`, e.g. `hyphen.de' or `hyphen.uk'.

See the file itself for a copyright notice.

The file `tmac/hyphen.fr' contains the same patterns as the file `frhyph.tex' (for TeX), which can be found at

http://dante.ctan.org/CTAN/language/hyphenation/frhyph.tex

The patterns have been converted to a format groff can understand.

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The file `tmac/hyphen.sv' is identical to the file `svhyph.tex', which can be found at

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The files `tmac/hyphen.det' and `tmac/hyphen.den' contain the same patterns as the files `dehyph-t-x-2017-03-31.pat' and `dehyphn-x-2017-03-31.pat' (for TeX), respectively, which can be found at

http://ctan.org/tex-archive/language/hyphenation/dehyph-exptl
The patterns have been converted to latin-1.

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The file `tmac/hyphen.cs' contains the same patterns as the file `czhyphen.tex' (for TeX), which can be found in the archive

http://dante.ctan.org/CTAN/macros/cstex/base/csplain.tar.gz

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1.967 pnp-webpack-plugin 1.6.4
1.967.1 Available under license:

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# ![Plugin Play](https://github.com/yarnpkg/rfcs/pull/101) resolver for Webpack


*This plugin is also available for Jest ([jest-pnp-resolver](https://github.com/arcanis/jest-pnp-resolver)), Rollup ([rollup-plugin-pnp-resolve](https://github.com/arcanis/rollup-plugin-pnp-resolve)), and TypeScript ([ts-pnp](https://github.com/arcanis/ts-pnp))*

## Installation

```...
```
yarn add -D pnp-webpack-plugin
```
## Usage

Simply add the plugin to both the `resolver` and `resolveLoader`:
```js
```js
const PnpWebpackPlugin = require('pnp-webpack-plugin');

module.exports = {
  resolve: {
    plugins: [
      PnpWebpackPlugin,
    ],
  },
  resolveLoader: {
    plugins: [
      PnpWebpackPlugin.moduleLoader(module),
    ],
  },
};
```

The `resolve` entry will take care of correctly resolving the dependencies required by your program, and the `resolveLoader` entry will help Webpack find the location of the loaders on the disk. Note that in this case, all loaders will be resolved relative to the package containing your configuration.

In case part of your configuration comes from third-party packages that use their own loaders, make sure they use `require.resolve` - this will ensure that the resolution process is portable across environments (including when Plug'n'Play isn't enabled), and prevent it from relying on undefined behaviors:
```js
```js
module.exports = {
  module: {
    rules: [{
      test: /\.js$/,
      loader: require.resolve('babel-loader'),
    }]
  },
};
```

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1.968 apport-symptoms 0.20

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The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

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1.971 openssl 1.1.0l-1~deb9u3

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1.974 flexmark-ext-yaml-front-matter 0.40.32

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1.975 dash 0.5.8 2.10
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1.977 boost 1.53.0-27.amzn2.0.5

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The header `<boost/mp11/mpl.hpp>`, when included, defines the necessary support infrastructure for `mp_list` and `std::tuple` to be valid.

NOTE: `mpl.hpp` is not included by `<boost/mp11.hpp>`.

It's also possible to only enable support for `mp_list` by including `<boost/mp11/mpl_list.hpp>`, and for `std::tuple` by including `<boost/mp11/mpl_tuple.hpp>`.

Converting an existing MPL Sequence into an mp_list

```
using L = mpl::copy<Sequence, mpl::back_inserter<mp11::mp_list<>>>::type;
```

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1.980 pcre 8.39-9

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1.981 pam 1.1.8-3.6ubuntu2.18.04.2

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-------------------------------------------------------------------------
Patch for Ubuntu bug #399071

Display the contents of /etc/legal as part of the MOTD, the first time the
user logs in, and set a flag in the user's homedir if possible to prevent
repeat displays.

Authors: Dustin Kirkland <kirkland@canonical.com>
Upstream status: Ubuntu-specific, maybe submit to Debian

Index: pam.ubuntu/modules/pam_motd/pam_motd.c

--- pam.ubuntu.orig/modules/pam_motd/pam_motd.c
+++ pam.ubuntu/modules/pam_motd/pam_motd.c
 @@ -73,6 +73,61 @@
   close(fd);
 }

+int display_legal(pam_handle_t *pamh)
+{
+    int retval = PAM_IGNORE, rc;
+    char *user = NULL;
+    char *dir = NULL;
+    char *flag = NULL;
+    struct passwd *pwd = NULL;
+    struct stat s;
+    int f;
+    /* Get the user name to determine if we need to print the disclaimer */
+    rc = pam_get_item(pamh, PAM_USER, &user);
+    if (rc == PAM_SUCCESS && user != NULL && *(const char *)user != '\0')
+    {
+        PAM_MODUTIL_DEF_PRIVS(privs);
+
+        /* Get the password entry */
+        pwd = pam_modutil_getpwnam (pamh, user);
+        if (pwd != NULL)
+        {
+            if (pam_modutil_drop_priv(pamh, &privs, pwd)) {
+                pam_syslog(pamh, LOG_ERR,
+                           "Unable to change UID to %d temporarily\n",
+                           pwd->pw_uid);
+                retval = PAM_SESSION_ERR;
+                goto finished;
+            }
+
+            if (asprintf(&dir, "%s/.cache", pwd->pw_dir) == -1 || !dir)
+                goto finished;
+            if (asprintf(&flag, "%s/motd.legal-displayed", dir) == -1 || !flag)
+                goto finished;
+
+            if (stat(flag, &s) != 0)
+            {
+                display_file(pamh, "/etc/legal");
+                mkdir(dir, 0700);
+                f = open(flag, O_WRONLY|O_CREAT|O_EXCL,
+                         S_IRUSR|S_IWUSR|S_IRGRP|S_IROTH);
+                S_IRUSR|S_IWUSR|S_IRGRP|S_IROTH);
    if (f>=0) close(f);
    }

    finished:
    if (pam_modutil_regain_priv(pamh, &privs)) {
        pam_syslog(pamh, LOG_ERR,
                   "Unable to change UID back to %d
                   " privs.old_uid);
        retval = PAM_SESSION_ERR;
    }

    _pam_drop(flag);
    _pam_drop(dir);
    }

    return retval;
}

PAM_EXTERN
int pam_sm_open_session(pam_handle_t *pamh, int flags,
int argc, const char **argv)
@@ -116,6 +171,9 @@
/* Display the updated motd */
    display_file(pamh, motd_path);
+
    /* Display the legal disclaimer only if necessary */
    retval = display_legal(pamh);
+
    return retval;
}

This package was debianized by J.H.M. Dassen (Ray) jdassen@debian.org on

It was downloaded from ftp://ftp.kernel.org/pub/linux/libs/pam/pre/

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1.983 cloud-utils 0.30-0ubuntu5

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1.993 xorg 7.7+19

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Source Package: xorg

Debian/Ubuntu package authors: Branden Robinson, Fabio M. Di Nitto, Daniel Stone and others

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If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to
distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

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b) Use a suitable shared library mechanism for linking with the
Library. A suitable mechanism is one that (1) uses at run time a
copy of the library already present on the user's computer system,
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normally distributed (in either source or binary form) with the major
components (compiler, kernel, and so on) of the operating system on
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If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

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This package is used for testing builds of ncurses.

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**1.1010 function-bind 1.1.1**

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**1.1011 libidn 0.16 1+deb9u1**

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Julian Seward, jsward@bzip.org
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GCC RUNTIME LIBRARY EXCEPTION

Version 3.1, 31 March 2009

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1.1030 jnr-constants 0.9.15

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1.1035 string-prototype-trimright 2.1.2

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* /opt/cola/permits/1152577670_1618257451.79/0/jnr-constants-0-9-15-sources-1-jar/com/kenai/constantine/ConstantSet.java
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1.1037 binutils 2.30-21ubuntu1~18.04.5
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++++++++++++++++

Dean Elsner wrote the original gas for vax. [more details?]

Jay Fenlason maintained gas for a while, adding support for gdb-specific debug information and the 68k series machines, most of the preprocessing pass, and extensive changes in messages.c, input-file.c, write.c.

K. Richard Pixley maintained gas for a while, adding various enhancements and many bug fixes, including merging support for several processors, breaking gas up to handle multiple object file format backends (including heavy rewrite, testing, an integration of the coff and b.out backends), adding configuration including heavy testing and verification of cross assemblers and file splits and renaming, converted gas to strictly ansi C including full prototypes, added support for m680[34]0 & cpu32, considerable work on i960 including a coff port (including considerable amounts of reverse engineering), a sparc opcode file rewrite, decstation, rs6000, and hp300hpux host ports, updated "know" assertions and made them work, much other reorganization, cleanup, and lint.

Ken Raeburn wrote the high-level BFD interface code to replace most of the code in format-specific I/O modules.

The original Vax-VMS support was contributed by David L. Kashtan. Eric Youngdale and Pat Rankin have done much work with it since.

The Intel 80386 machine description was written by Eliot Dresselhaus.

Minh Tran-Le at IntelliCorp contributed some AIX 386 support.

The Motorola 88k machine description was contributed by Devon Bowen of Buffalo University and Torbjorn Granlund of the Swedish Institute of Computer Science.

Keith Knowles at the Open Software Foundation wrote the original MIPS back end (tc-mips.c, tc-mips.h), and contributed Rose format support.
that hasn't been merged in yet. Ralph Campbell worked with the MIPS
code to support a.out format.

Support for the Zilog Z8k and Hitachi H8/300, H8/500 and SH processors
(tc-z8k, tc-h8300, tc-h8500, tc-sh), and IEEE 695 object file format
(obj-ieee), was written by Steve Chamberlain of Cygnus Solutions.
Steve also modified the COFF back end (obj-coffbfd) to use BFD for
some low-level operations, for use with the Hitachi, 29k and Zilog
targets.

John Gilmore built the AMD 29000 support, added .include support, and
simplified the configuration of which versions accept which
pseudo-ops. He updated the 68k machine description so that Motorola's
opcodes always produced fixed-size instructions (e.g. jsr), while
synthetic instructions remained shrinkable (jbsr). John fixed many
bugs, including true tested cross-compile support, and one bug in
relaxation that took a week and required the proverbial one-bit fix.

Ian Lance Taylor of Cygnus Solutions merged the Motorola and MIT
syntaxes for the 68k, completed support for some COFF targets (68k,
i386 SVR3, and SCO Unix), wrote the ECOFF support based on Michael
Meissner's mips-tfile program, wrote the PowerPC and RS/6000 support,
and made a few other minor patches. He handled the binutils releases
for versions 2.7 through 2.9.

David Edelsohn contributed fixes for the PowerPC and AIX support.

Steve Chamberlain made gas able to generate listings.

Support for the HP9000/300 was contributed by Glenn Engel of HP.

Support for ELF format files has been worked on by Mark Eichin of
Cygnus Solutions (original, incomplete implementation), Pete
Hoogenboom at the University of Utah (HPPA mainly), Michael Meissner
of the Open Software Foundation (i386 mainly), and Ken Raeburn of
Cygnus Solutions (sparc, initial 64-bit support).

Several engineers at Cygnus Solutions have also provided many small
bug fixes and configuration enhancements.

The initial Alpha support was contributed by Carnegie-Mellon
University. Additional work was done by Ken Raeburn of Cygnus
Solutions. Richard Henderson then rewrote much of the Alpha support.

Ian Dall updated the support code for the National Semiconductor 32000
series, and added support for Mach 3 and NetBSD running on the PC532.

Klaus Kaempf ported the assembler and the binutils to openVMS/Alpha.
Steve Haworth contributed the support for the Texas Instruction c30 (tms320c30).

H.J. Lu has contributed many patches and much testing.

Alan Modra reworked much of the i386 backend, improving the error checking, updating the code, and improving the 16 bit support, using patches from the work of Martynas Kunigelis and H.J. Lu.

Many others have contributed large or small bugfixes and enhancements. If you've contributed significant work and are not mentioned on this list, and want to be, let us know. Some of the history has been lost; we aren't intentionally leaving anyone out.

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2. You may modify your copy or copies of the Library or any portion
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a) The modified work must itself be a software library.

b) You must cause the files modified to carry prominent notices
stating that you changed the files and the date of any change.

c) You must cause the whole of the work to be licensed at no
charge to all third parties under the terms of this License.

d) If a facility in the modified Library refers to a function or a
table of data to be supplied by an application program that uses
the facility, other than as an argument passed when the facility
is invoked, then you must make a good faith effort to ensure that,
in the event an application does not supply such function or
table, the facility still operates, and performs whatever part of
its purpose remains meaningful.

(For example, a function in a library to compute square roots has
a purpose that is entirely well-defined independent of the
application. Therefore, Subsection 2d requires that any
application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.
If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also compile or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the
copyright notice for the Library among them, as well as a reference
directing the user to the copy of this License. Also, you must do one
of these things:

a) Accompany the work with the complete corresponding
machine-readable source code for the Library including whatever
changes were used in the work (which must be distributed under
Sections 1 and 2 above); and, if the work is an executable linked
with the Library, with the complete machine-readable "work that
uses the Library", as object code and/or source code, so that the
user can modify the Library and then relink to produce a modified
executable containing the modified Library. (It is understood
that the user who changes the contents of definitions files in the
Library will not necessarily be able to recompile the application
to use the modified definitions.)

b) Accompany the work with a written offer, valid for at
least three years, to give the same user the materials
specified in Subsection 6a, above, for a charge no more
than the cost of performing this distribution.

c) If distribution of the work is made by offering access to copy
from a designated place, offer equivalent access to copy the above
specified materials from the same place.

d) Verify that the user has already received a copy of these
materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the
Library" must include any data and utility programs needed for
reproducing the executable from it. However, as a special exception,
the source code distributed need not include anything that is normally
distributed (in either source or binary form) with the major
components (compiler, kernel, and so on) of the operating system on
which the executable runs, unless that component itself accompanies
the executable.

It may happen that this requirement contradicts the license
restrictions of other proprietary libraries that do not normally
accompany the operating system. Such a contradiction means you cannot
use both them and the Library together in an executable that you
distribute.

7. You may place library facilities that are a work based on the
Library side-by-side in a single library together with other library
facilities not covered by this License, and distribute such a combined
library, provided that the separate distribution of the work based on
the Library and of the other library facilities is otherwise
permitted, and provided that you do these two things:

a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.

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END OF TERMS AND CONDITIONS

Appendix: How to Apply These Terms to Your New Libraries

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<one line to give the library's name and a brief idea of what it does.>
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library 'Frob' (a library for tweaking knobs) written by James Random Hacker.

<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

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We protect your rights with a two-step method: (1) we copyright the library, and (2) we offer you this license, which gives you legal permission to copy, distribute and/or modify the library.

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When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a
combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

Although the Lesser General Public License is Less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

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0. This License Agreement applies to any software library or other program which contains a notice placed by the copyright holder or other authorized party saying it may be distributed under the terms of this Lesser General Public License (also called "this License"). Each licensee is addressed as "you".
A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification").

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

1. You may copy and distribute verbatim copies of the Library's complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.

   You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

   a) The modified work must itself be a software library.

   b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.
c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.
Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may
distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.
e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.

b) Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

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Appendix: How to Apply These Terms to Your New Programs

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<signature of Ty Coon>, 1 April 1989
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1.1045 kmod 25-3.amzn2.0.2

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1.1047 binutils 2.28-5

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++++++++++++++++

Dean Elsner wrote the original gas for vax. [more details?]

Jay Fenlason maintained gas for a while, adding support for gdb-specific debug information and the 68k series machines, most of the preprocessing pass, and extensive changes in messages.c, input-file.c, write.c.

K. Richard Pixley maintained gas for a while, adding various enhancements and many bug fixes, including merging support for several processors, breaking gas up to handle multiple object file format backends (including heavy rewrite, testing, an integration of the coff and b.out backends), adding configuration including heavy testing and verification of cross assemblers and file splits and renaming, converted gas to strictly ansi C including full prototypes, added support for m680[34]0 & cpu32, considerable work on i960 including a
coff port (including considerable amounts of reverse engineering), a
sparc opcode file rewrite, decstation, rs6000, and hp300hpux host
ports, updated "know" assertions and made them work, much other
reorganization, cleanup, and lint.

Ken Raeburn wrote the high-level BFD interface code to replace most of
the code in format-specific I/O modules.

The original Vax-VMS support was contributed by David L. Kashtan.
Eric Youngdale and Pat Rankin have done much work with it since.

The Intel 80386 machine description was written by Eliot Dresselhaus.

Minh Tran-Le at IntelliCorp contributed some AIX 386 support.

The Motorola 88k machine description was contributed by Devon Bowen of
Buffalo University and Torbjorn Granlund of the Swedish Institute of
Computer Science.

Keith Knowles at the Open Software Foundation wrote the original MIPS
back end (tc-mips.c, tc-mips.h), and contributed Rose format support
that hasn't been merged in yet. Ralph Campbell worked with the MIPS
code to support a.out format.

Support for the Zilog Z8k and Hitachi H8/300, H8/500 and SH processors
(tc-z8k, tc-h8300, tc-h8500, tc-sh), and IEEE 695 object file format
(obj-ieee), was written by Steve Chamberlain of Cygnus Solutions.
Steve also modified the COFF back end (obj-coffbfd) to use BFD for
some low-level operations, for use with the Hitachi, 29k and Zilog
targets.

John Gilmore built the AMD 29000 support, added .include support, and
simplified the configuration of which versions accept which
pseudo-ops. He updated the 68k machine description so that Motorola's
opcodes always produced fixed-size instructions (e.g. jsr), while
synthetic instructions remained shrinkable (jbsr). John fixed many
bugs, including true tested cross-compilation support, and one bug in
relaxation that took a week and required the proverbial one-bit fix.

Ian Lance Taylor of Cygnus Solutions merged the Motorola and MIT
syntaxes for the 68k, completed support for some COFF targets (68k,
i386 SVR3, and SCO Unix), wrote the ECOFF support based on Michael
Meissner's mips-tfile program, wrote the PowerPC and RS/6000 support,
and made a few other minor patches. He handled the binutils releases
for versions 2.7 through 2.9.

David Edelson contributed fixes for the PowerPC and AIX support.
Steve Chamberlain made gas able to generate listings.

Support for the HP9000/300 was contributed by Glenn Engel of HP.

Support for ELF format files has been worked on by Mark Eichin of Cygnus Solutions (original, incomplete implementation), Pete Hoogenboom at the University of Utah (HPPA mainly), Michael Meissner of the Open Software Foundation (i386 mainly), and Ken Raeburn of Cygnus Solutions (sparc, initial 64-bit support).

Several engineers at Cygnus Solutions have also provided many small bug fixes and configuration enhancements.

The initial Alpha support was contributed by Carnegie-Mellon University. Additional work was done by Ken Raeburn of Cygnus Solutions. Richard Henderson then rewrote much of the Alpha support.

Ian Dall updated the support code for the National Semiconductor 32000 series, and added support for Mach 3 and NetBSD running on the PC532.

Klaus Kaempf ported the assembler and the binutils to openVMS/Alpha.

Steve Haworth contributed the support for the Texas Instruction c30 (tms320c30).

H.J. Lu has contributed many patches and much testing.

Alan Modra reworked much of the i386 backend, improving the error checking, updating the code, and improving the 16 bit support, using patches from the work of Martynas Kunigelis and H.J. Lu.

Many others have contributed large or small bugfixes and enhancements. If you've contributed significant work and are not mentioned on this list, and want to be, let us know. Some of the history has been lost; we aren't intentionally leaving anyone out.

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When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also compile or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:
a) Accompany the work with the complete corresponding
machine-readable source code for the Library including whatever
changes were used in the work (which must be distributed under
Sections 1 and 2 above); and, if the work is an executable linked
with the Library, with the complete machine-readable "work that
uses the Library", as object code and/or source code, so that the
user can modify the Library and then relink to produce a modified
executable containing the modified Library. (It is understood
that the user who changes the contents of definitions files in the
Library will not necessarily be able to recompile the application
to use the modified definitions.)

b) Accompany the work with a written offer, valid for at
least three years, to give the same user the materials
specified in Subsection 6a, above, for a charge no more
than the cost of performing this distribution.

c) If distribution of the work is made by offering access to copy
from a designated place, offer equivalent access to copy the above
specified materials from the same place.

d) Verify that the user has already received a copy of these
materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the
Library" must include any data and utility programs needed for
reproducing the executable from it. However, as a special exception,
the source code distributed need not include anything that is normally
distributed (in either source or binary form) with the major
components (compiler, kernel, and so on) of the operating system on
which the executable runs, unless that component itself accompanies
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It may happen that this requirement contradicts the license
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the Library and of the other library facilities is otherwise
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Appendix: How to Apply These Terms to Your New Libraries

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   a) The modified work must itself be a software library.

   b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

   c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.
d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

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Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.
This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.
6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

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a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

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c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

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It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

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1.1054 icu 60

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## Commands to generate dependency files
GEN_DEPS.c=$(CC) -E -MM $(DEFS) $(CPPFLAGS)
GEN_DEPS.cc=$(CXX) -E -MM $(DEFS) $(CPPFLAGS)

## Flags for position independent code
SHAREDLIBCFLAGS = -fPIC
SHAREDLIBCXXFLAGS = -fPIC
SHAREDLIBCPPFLAGS = -DPIC

## Additional flags when building libraries and with threads
THREADSCPPFLAGS = -D_REENTRANT
LIBCPPFLAGS =

## Compiler switch to embed a runtime search path
LD_RPATH=
LD_RPATH_PRE=-Wl-rpath,

## Compiler switch to embed a library name
LD_SONAME = -Wl,-soname -Wl,$(notdir $(MIDDLE_SO_TARGET))

## Shared library options
LD_SOOPTIONS= -Wl,-Bsymbolic

## Shared object suffix
SO = so
## Non-shared intermediate object suffix
STATIC_O = ao

## Compilation rules
%.$(STATIC_O): $(srcdir)/%.c
$(COMPILE.c) $(STATICCPPFLAGS) $(STATICCFLAGS) -o $@ $<
%.o: $(srcdir)/%.c
$(COMPILE.c) $(DYNAMICCPPFLAGS) $(DYNAMICCFLAGS) -o $@ $<

%.$(STATIC_O): $(srcdir)/%.cpp
$(COMPILE.cc) $(STATICCPPFLAGS) $(STATICCXXFLAGS) -o $@ $<
%.o: $(srcdir)/%.cpp
$(COMPILE.cc) $(DYNAMICCPPFLAGS) $(DYNAMICCXXFLAGS) -o $@ $<

## Dependency rules
%.d: $(srcdir)/%.c
@echo "generating dependency information for $<"
$(SHELL) -ec '$(GEN_DEPS.c) $< \
| sed "s/\(\$*\)\.o\( \|\)+/\1.o $@ : /g\" > $@;\n\ [ -s $@ ] || rm -f $@'

%.d: $(srcdir)/%.cpp
@echo "generating dependency information for $<"
$(SHELL) -ec '$(GEN_DEPS.cc) $< \
| sed "s/\(\$*\)\.o\( \|\)+/\1.o $@ : /g\" > $@;\n\ [ -s $@ ] || rm -f $@'

## Versioned libraries rules
%.$(SO).$(SO_TARGET_VERSION_MAJOR): %.$(SO).$(SO_TARGET_VERSION)
$(RM) $@ && ln -s ${<F} $@
%.$(SO): %.$(SO).$(SO_TARGET_VERSION_MAJOR)
$(RM) $@ && ln -s $(+F).$(SO).$(SO_TARGET_VERSION) $@

## Bind internal references

# LDflags that pkgdata will use
BIR_LDFLAGS= -Wl,-Bsymbolic

# Dependencies [i.e. map files] for the final library
BIR_DEPS=

## Remove shared library 's'
STATIC_PREFIX_WHEN_USED =
STATIC_PREFIX =

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1.1055 babel-plugin-emotion 10.0.33

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1.1056 python-colorama 0.3.2-3.amzn2

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1.1057 snappy 0.4

1.1058 gopsutil 3.20.10+incompatible
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1.1059 dsnet-compress 0.0.1

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1.1060 log4j-api 2.12.1

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1.1061 perl-podlators 2.5.1-3.amzn2.0.1

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=head1 NAME

perlpodstyle - Perl POD style guide

=head1 DESCRIPTION

These are general guidelines for how to write POD documentation for Perl scripts and modules, based on general guidelines for writing good UNIX man
pages. All of these guidelines are, of course, optional, but following them will make your documentation more consistent with other documentation on the system.

The name of the program being documented is conventionally written in bold (using \texttt{BE<lt>E<gt>}) wherever it occurs, as are all program options. Arguments should be written in italics (\texttt{IE<lt>E<gt>}). Function names are traditionally written in italics; if you write a function as function(), \texttt{Pod::Man} will take care of this for you. Literal code or commands should be in \texttt{CE<lt>E<gt>}. References to other man pages should be in the form \texttt{C<manpage(section)>} or \texttt{C<LE<lt>manpage(section)E<gt>>>}, and \texttt{Pod::Man} will automatically format those appropriately. The second form, with \texttt{LE<lt>E<gt>}, is used to request that a POD formatter make a link to the man page if possible. As an exception, one normally omits the section when referring to module documentation since it's not clear what section module documentation will be in; use \texttt{C<LE<lt>Module::NameE<gt>>>} for module references instead.

References to other programs or functions are normally in the form of man page references so that cross-referencing tools can provide the user with links and the like. It's possible to overdo this, though, so be careful not to clutter your documentation with too much markup. References to other programs that are not given as man page references should be enclosed in \texttt{BE<lt>E<gt>}. The major headers should be set out using a \texttt{C<=head1>} directive, and are historically written in the rather startling \texttt{ALL UPPER CASE} format; this is not mandatory, but it's strongly recommended so that sections have consistent naming across different software packages. Minor headers may be included using \texttt{C<=head2>}, and are typically in mixed case.

The standard sections of a manual page are:

\texttt{=over 4}

\texttt{=item NAME}

Mandatory section; should be a comma-separated list of programs or functions documented by this POD page, such as:

\texttt{foo, bar - programs to do something}

Manual page indexers are often extremely picky about the format of this section, so don't put anything in it except this line. Every program or function documented by this POD page should be listed, separated by a comma and a space. For a Perl module, just give the module name. A single dash, and only a single dash, should separate the list of programs or functions from the description. Do not use any markup such as
CE<lt>E<gt> or BE<lt>E<gt> anywhere in this line. Functions should not be qualified with C<()> or the like. The description should ideally fit on a single line, even if a man program replaces the dash with a few tabs.

=item SYNOPSIS

A short usage summary for programs and functions. This section is mandatory for section 3 pages. For Perl module documentation, it's usually convenient to have the contents of this section be a verbatim block showing some (brief) examples of typical ways the module is used.

=item DESCRIPTION

Extended description and discussion of the program or functions, or the body of the documentation for man pages that document something else. If particularly long, it's a good idea to break this up into subsections C<=head2> directives like:

=head2 Normal Usage

=head2 Advanced Features

=head2 Writing Configuration Files

or whatever is appropriate for your documentation.

For a module, this is generally where the documentation of the interfaces provided by the module goes, usually in the form of a list with an C<=item> for each interface. Depending on how many interfaces there are, you may want to put that documentation in separate METHODS, FUNCTIONS, CLASS METHODS, or INSTANCE METHODS sections instead and save the DESCRIPTION section for an overview.

=item OPTIONS

Detailed description of each of the command-line options taken by the program. This should be separate from the description for the use of parsers like L<Pod::Usage>. This is normally presented as a list, with each option as a separate C<=item>. The specific option string should be enclosed in BE<lt>E<gt>. Any values that the option takes should be enclosed in IE<lt>E<gt>. For example, the section for the option B<--section>=I<manext> would be introduced with:

=item B<--section>=I<manext>

Synonymous options (like both the short and long forms) are separated by a comma and a space on the same C<=item> line, or optionally listed as their own item with a reference to the canonical name. For example, since
B<--section> can also be written as B<-s>, the above would be:

=item B<-s> I<manext>, B<--section>=I<manext>

Writing the short option first is recommended because it's easier to read. The long option is long enough to draw the eye to it anyway and the short option can otherwise get lost in visual noise.

==item RETURN VALUE

What the program or function returns, if successful. This section can be omitted for programs whose precise exit codes aren't important, provided they return 0 on success and non-zero on failure as is standard. It should always be present for functions. For modules, it may be useful to summarize return values from the module interface here, or it may be more useful to discuss return values separately in the documentation of each function or method the module provides.

==item ERRORS

Exceptions, error return codes, exit statuses, and errno settings. Typically used for function or module documentation; program documentation uses DIAGNOSTICS instead. The general rule of thumb is that errors printed to C<STDOUT> or C<STDERR> and intended for the end user are documented in DIAGNOSTICS while errors passed internal to the calling program and intended for other programmers are documented in ERRORS. When documenting a function that sets errno, a full list of the possible errno values should be given here.

==item DIAGNOSTICS

All possible messages the program can print out and what they mean. You may wish to follow the same documentation style as the Perl documentation; see perldiag(1) for more details (and look at the POD source as well).

If applicable, please include details on what the user should do to correct the error; documenting an error as indicating "the input buffer is too small" without telling the user how to increase the size of the input buffer (or at least telling them that it isn't possible) aren't very useful.

=item EXAMPLES

Give some example uses of the program or function. Don't skimp; users often find this the most useful part of the documentation. The examples are generally given as verbatim paragraphs.

Don't just present an example without explaining what it does. Adding a
short paragraph saying what the example will do can increase the value of the example immensely.

=item ENVIRONMENT

Environment variables that the program cares about, normally presented as a list using C<over>, C<item>, and C<back>. For example:

=over 6

=item HOME

Used to determine the user's home directory. F<foorc> in this directory is read for configuration details, if it exists.

=back

Since environment variables are normally in all uppercase, no additional special formatting is generally needed; they're glaring enough as it is.

=item FILES

All files used by the program or function, normally presented as a list, and what it uses them for. File names should be enclosed in F<lt>E<gt>. It's particularly important to document files that will be potentially modified.

=item CAVEATS

Things to take special care with, sometimes called WARNINGS.

=item BUGS

Things that are broken or just don't work quite right.

=item RESTRICTIONS

Bugs you don't plan to fix. :-) 

=item NOTES

Miscellaneous commentary.

=item AUTHOR

Who wrote it (use AUTHORS for multiple people). It's a good idea to include your current e-mail address (or some e-mail address to which bug reports should be sent) or some other contact information so that users
have a way of contacting you. Remember that program documentation tends
to roam the wild for far longer than you expect and pick a contact method
that's likely to last.

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=item SEE ALSO

Other man pages to check out, like man(1), man(7), makewhatis(8), or
catman(8). Normally a simple list of man pages separated by commas, or a
paragraph giving the name of a reference work. Man page references, if
they use the standard C<name(section)> form, don't have to be enclosed in
LE<lt>E<gt> (although it's recommended), but other things in this section
probably should be when appropriate.

If the package has a mailing list, include a URL or subscription
instructions here.

If the package has a web site, include a URL here.

=back

Documentation of object-oriented libraries or modules may want to use
CONSTRUCTORS and METHODS sections, or CLASS METHODS and INSTANCE METHODS
sections, for detailed documentation of the parts of the library and save
the DESCRIPTION section for an overview. Large modules with a function
interface may want to use FUNCTIONS for similar reasons. Some people use
OVERVIEW to summarize the description if it's quite long.

Section ordering varies, although NAME must always be the first section (you'll break some man page systems otherwise), and NAME, SYNOPSIS, DESCRIPTION, and OPTIONS generally always occur first and in that order if present. In general, SEE ALSO, AUTHOR, and similar material should be left for last. Some systems also move WARNINGS and NOTES to last. The order given above should be reasonable for most purposes.

Some systems use CONFORMING TO to note conformance to relevant standards and MT-LEVEL to note safeness for use in threaded programs or signal handlers. These headings are primarily useful when documenting parts of a C library.

Finally, as a general note, try not to use an excessive amount of markup. As documented here and in L<Pod::Man>, you can safely leave Perl variables, function names, man page references, and the like unadorned by markup and the POD translators will figure it out for you. This makes it much easier to later edit the documentation. Note that many existing translators will do the wrong thing with e-mail addresses when wrapped in LE<lt>E<gt>, so don't do that.

=head1 SEE ALSO

For additional information that may be more accurate for your specific system, see either L<man(5)> or L<man(7)> depending on your system manual section numbering conventions.

This documentation is maintained as part of the podlators distribution. The current version is always available from its web site at <http://www.eyrie.org/~eagle/software/podlators/>.

=head1 AUTHOR

Russ Allbery <rra@stanford.edu>, with large portions of this documentation taken from the documentation of the original B<pod2man> implementation by Larry Wall and Tom Christiansen.

=head1 COPYRIGHT AND LICENSE


This documentation is free software; you may redistribute it and/or modify it under the same terms as Perl itself.
#!perl

# pod2man -- Convert POD data to formatted *roff input.
#
#    Russ Allbery <rra@stanford.edu>
#
# This program is free software; you may redistribute it and/or modify it
# under the same terms as Perl itself.

require 5.004;

use Getopt::Long qw(GetOptions);
use Pod::Man ();
use Pod::Usage qw(pod2usage);

use strict;

# Clean up $0 for error reporting.
$0 =~ s%.*/%%;

# Insert -- into @ARGV before any single dash argument to hide it from
# Getopt::Long; we want to interpret it as meaning stdin.
my $stdin;
@ARGV = map { $_ eq '-' && !$stdin++ ? ('--', $_) : $_ } @ARGV;

# Parse our options, trying to retain backward compatibility with pod2man but
# allowing short forms as well. --lax is currently ignored.
my %options;
Getopt::Long::config ('bundling_override');
GetOptions (\%options, 'center|c=s', 'date|d=s', 'errors=s', 'fixed=s',
    'fixedbold=s', 'fixeditalic=s', 'fixedbolditalic=s', 'help|h',
    'lax|i', 'name|n=s', 'nourls', 'official|o', 'quotes|q=s',
    'release|r:s', 'section|s=s', 'stderr', 'verbose|v', 'utf8|u')
or exit 1;
pod2usage (0) if %options{help};

# Official sets --center, but don't override things explicitly set.
if (%options{official} && !defined %options{center}) {
    %options{center} = 'Perl Programmers Reference Guide';
}

# Verbose is only our flag, not a Pod::Man flag.
my $verbose = $options{verbose};
delete $options{verbose};

# This isn't a valid Pod::Man option and is only accepted for backward
# compatibility.
delete $options{lax};

# If neither stderr nor errors is set, default to errors = die.
if ('defined $options{stderr} && !defined $options{errors}) {
    $options{errors} = 'die';
}

# Initialize and run the formatter, pulling a pair of input and output off at
# a time. For each file, we check whether the document was completely empty
# and, if so, will remove the created file and exit with a non-zero exit
# status.
my $parser = Pod::Man->new (%options);
my $status = 0;
my @files;
do {
    @files = splice (@ARGV, 0, 2);
    print "  $files[1]\n" if $verbose;
    $parser->parse_from_file (@files);
    if ($parser->{CONTENTLESS}) {
        $status = 1;
        warn "$0: unable to format $files[0]\n";
        if (defined ($files[1]) and $files[1] ne '-') {
            unlink $files[1] unless (-s $files[1]);
        }
    }
} while (@ARGV);
exit $status;

__END__

=for stopwords
en em --stderr stderr --utf8 UTF-8 overdo markup MT-LEVEL Allbery Solaris
URL troff troff-specific formatters uppercased Christiansen --nourls

=head1 NAME

pod2man - Convert POD data to formatted *roff input

=head1 SYNONYSES

pod2man [B<--center>=I<string>] [B<--date>=I<string>] [B<--errors>=I<font>] [B<--fixed>=I<font>] [B<--fixedbold>=I<font>] [B<--fixeditalic>=I<font>] [B<--fixedbolditalic>=I<font>] [B<--name>=I{name}] [B<--nourls>]
pod2man B<--help>

=head1 DESCRIPTION

B<pod2man> is a front-end for Pod::Man, using it to generate *roff input from POD source. The resulting *roff code is suitable for display on a terminal using nroff(1), normally via man(1), or printing using troff(1).

I<input> is the file to read for POD source (the POD can be embedded in code). If I<input> isn't given, it defaults to C<STDIN>. I<output>, if given, is the file to which to write the formatted output. If I<output> isn't given, the formatted output is written to C<STDOUT>. Several POD files can be processed in the same B<pod2man> invocation (saving module load and compile times) by providing multiple pairs of I<input> and I<output> files on the command line.

B<--section>, B<--release>, B<--center>, B<--date>, and B<--official> can be used to set the headers and footers to use; if not given, Pod::Man will assume various defaults. See below or L<Pod::Man> for details.

B<pod2man> assumes that your *roff formatters have a fixed-width font named C<CW>). If yours is called something else (like C<CR>), use B<--fixed> to specify it. This generally only matters for troff output for printing. Similarly, you can set the fonts used for bold, italic, and bold italic fixed-width output.

Besides the obvious pod conversions, Pod::Man, and therefore pod2man also takes care of formatting func(), func(n), and simple variable references like $foo or @bar so you don't have to use code escapes for them; complex expressions like C<$fred{'stuff'}> will still need to be escaped, though. It also translates dashes that aren't used as hyphens into en dashes, makes long dashes--like this--into proper em dashes, fixes "paired quotes," and takes care of several other troff-specific tweaks. See L<Pod::Man> for complete information.

=head1 OPTIONS

=over 4

=item B<--c> I<string>, B<--center>=I<string>

Sets the centered page header to I<string>. The default is "User Contributed Perl Documentation", but also see B<--official> below.
=item B<-d> I<string>, B<-date>=I<string>

Set the left-hand footer string to this value. By default, the modification date of the input file will be used, or the current date if input comes from C<STDIN>.

=item B<-errors>=I<style>

Set the error handling style. C<die> says to throw an exception on any POD formatting error. C<stderr> says to report errors on standard error, but not to throw an exception. C<pod> says to include a POD ERRORS section in the resulting documentation summarizing the errors. C<none> ignores POD errors entirely, as much as possible.

The default is C<die>.

=item B<-fixed>=I<font>

The fixed-width font to use for verbatim text and code. Defaults to C<CW>. Some systems may want C<CR> instead. Only matters for troff(1) output.

=item B<-fixedbold>=I<font>

Bold version of the fixed-width font. Defaults to C<CB>. Only matters for troff(1) output.

=item B<-fixeditalic>=I<font>

Italic version of the fixed-width font (actually, something of a misnomer, since most fixed-width fonts only have an oblique version, not an italic version). Defaults to C<CI>. Only matters for troff(1) output.

=item B<-fixedbolditalic>=I<font>

Bold italic (probably actually oblique) version of the fixed-width font. Pod::Man doesn't assume you have this, and defaults to C<CB>. Some systems (such as Solaris) have this font available as C<CX>. Only matters for troff(1) output.

=item B<-h>, B<-help>

Print out usage information.

=item B<-l>, B<-lax>

No longer used. B<pod2man> used to check its input for validity as a manual page, but this should now be done by L<podchecker(1)> instead.
Accepted for backward compatibility; this option no longer does anything.

=item B<-n> I<name>, B<-name>=I<name>

Set the name of the manual page to I<name>. Without this option, the manual name is set to the uppercased base name of the file being converted unless the manual section is 3, in which case the path is parsed to see if it is a Perl module path. If it is, a path like C<../lib/Pod/Man.pm> is converted into a name like C<Pod::Man>. This option, if given, overrides any automatic determination of the name.

Note that this option is probably not useful when converting multiple POD files at once. The convention for Unix man pages for commands is for the man page title to be in all-uppercase even if the command isn't.

=item B<-nourls>

Normally, LZ<<LZ>> formatting codes with a URL but anchor text are formatted to show both the anchor text and the URL. In other words:

L<foo|http://example.com/>

is formatted as:

foo <http://example.com/>

This flag, if given, suppresses the URL when anchor text is given, so this example would be formatted as just C<foo>. This can produce less cluttered output in cases where the URLs are not particularly important.

=item B<-o>, B<-official>

Set the default header to indicate that this page is part of the standard Perl release, if B<-center> is not also given.

=item B<-q> I<quotes>, B<-quotes>=I<quotes>

Sets the quote marks used to surround CE<lt>> text to I<quotes>. If I<quotes> is a single character, it is used as both the left and right quote; if I<quotes> is two characters, the first character is used as the left quote and the second as the right quoted; and if I<quotes> is four characters, the first two are used as the left quote and the second two as the right quote.

I<quotes> may also be set to the special value C<none>, in which case no quote marks are added around CE<lt>> text (but the font is still changed for troff output).
Set the centered footer. By default, this is the version of Perl you run
B<pod2man> under. Note that some system an macro sets assume that the
centered footer will be a modification date and will prepend something like
"Last modified: "; if this is the case, you may want to set B<--release> to
the last modified date and B<--date> to the version number.

Set the section for the C<.TH> macro. The standard section numbering
convention is to use 1 for user commands, 2 for system calls, 3 for
functions, 4 for devices, 5 for file formats, 6 for games, 7 for
miscellaneous information, and 8 for administrator commands. There is a lot
of variation here, however; some systems (like Solaris) use 4 for file
formats, 5 for miscellaneous information, and 7 for devices. Still others
use 1m instead of 8, or some mix of both. About the only section numbers
that are reliably consistent are 1, 2, and 3.

By default, section 1 will be used unless the file ends in C<.pm>, in
which case section 3 will be selected.

By default, B<pod2man> dies if any errors are detected in the POD input.
If B<--stderr> is given and no B<--errors> flag is present, errors are
sent to standard error, but B<pod2man> does not abort. This is equivalent
to C<--errors=stderr> and is supported for backward compatibility.

By default, B<pod2man> produces the most conservative possible *roff
output to try to ensure that it will work with as many different *roff
implementations as possible. Many *roff implementations cannot handle
non-ASCII characters, so this means all non-ASCII characters are converted
either to a *roff escape sequence that tries to create a properly accented
character (at least for troff output) or to C<X>.

This option says to instead output literal UTF-8 characters. If your
*roff implementation can handle it, this is the best output format to use
and avoids corruption of documents containing non-ASCII characters.
However, be warned that *roff source with literal UTF-8 characters is not
supported by many implementations and may even result in segfaults and
other bad behavior.

Be aware that, when using this option, the input encoding of your POD
source must be properly declared unless it is US-ASCII or Latin-1. POD
input without an C<<=encoding> command will be assumed to be in Latin-1,
and if it's actually in UTF-8, the output will be double-encoded. See L<perlpod(1)> for more information on the C<encoding> command.

=item B<-v>, B--verbose>

Print out the name of each output file as it is being generated.

=back

=head1 EXIT STATUS

As long as all documents processed result in some output, even if that output includes errata (a C<POD ERRORS> section generated with C<--errors=pod>), B<pod2man> will exit with status 0. If any of the documents being processed do not result in an output document, B<pod2man> will exit with status 1. If there are syntax errors in a POD document being processed and the error handling style is set to the default of C<die>, B<pod2man> will abort immediately with exit status 255.

=head1 DIAGNOSTICS

If B<pod2man> fails with errors, see L<Pod::Man> and L<Pod::Simple> for information about what those errors might mean.

=head1 EXAMPLES

    pod2man program > program.1
    pod2man SomeModule.pm /usr/perl/man/man3/SomeModule.3
    pod2man --section=7 note.pod > note.7

If you would like to print out a lot of man page continuously, you probably want to set the C and D registers to set contiguous page numbering and even/odd paging, at least on some versions of man(7).

    troff -man -rC1 -rD1 perl.1 perldata.1 perlsyn.1 ...

To get index entries on C<STDERR>, turn on the F register, as in:

    troff -man -rF1 perl.1

The indexing merely outputs messages via C<.tm> for each major page, section, subsection, item, and any C<XE<lt>E<gt>> directives. See L<Pod::Man> for more details.

=head1 BUGS

Lots of this documentation is duplicated from L<Pod::Man>. 
=head1 SEE ALSO

L<Pod::Man>, L<Pod::Simple>, L<man(1)>, L<nroff(1)>, L<perlpod(1)>,
L<podchecker(1)>, L<perlpodstyle(1)>, L<troff(1)>, L<man(7)>

The man page documenting the an macro set may be L<man(5)> instead of
L<man(7)> on your system.

The current version of this script is always available from its web site at
L<http://www.eyrie.org/~eagle/software/podlators/>. It is also part of the
Perl core distribution as of 5.6.0.

=head1 AUTHOR

Russ Allbery <rra@stanford.edu>, based I<very> heavily on the original
B<pod2man> by Larry Wall and Tom Christiansen.

=head1 COPYRIGHT AND LICENSE

Allbery <rra@stanford.edu>.

This program is free software; you may redistribute it and/or modify it
under the same terms as Perl itself.

=cut

Found in path(s):
* /opt/cola/permits/1150898853_1637003177.95/0/perl-podlators-2.5.1-3.amzn2.0.1.src.rpm-cosi-expand-archive-
  FoSo2iHN/podlators-2.5.1.tar.gz-cosi-expand-archive-mgg4QyIn/podlators-2.5.1/scripts/pod2man
No license file was found, but licenses were detected in source scan.

# This program is free software; you may redistribute it and/or modify it
# under the same terms as Perl itself.

Found in path(s):
* /opt/cola/permits/1150898853_1637003177.95/0/perl-podlators-2.5.1-3.amzn2.0.1.src.rpm-cosi-expand-archive-
  FoSo2iHN/podlators-2.5.1.tar.gz-cosi-expand-archive-mgg4QyIn/podlators-2.5.1/t/color.t
* /opt/cola/permits/1150898853_1637003177.95/0/perl-podlators-2.5.1-3.amzn2.0.1.src.rpm-cosi-expand-archive-
  FoSo2iHN/podlators-2.5.1.tar.gz-cosi-expand-archive-mgg4QyIn/podlators-2.5.1/t/man-perlio.t
* /opt/cola/permits/1150898853_1637003177.95/0/perl-podlators-2.5.1-3.amzn2.0.1.src.rpm-cosi-expand-archive-
  FoSo2iHN/podlators-2.5.1.tar.gz-cosi-expand-archive-mgg4QyIn/podlators-2.5.1/t/text-options.t
* /opt/cola/permits/1150898853_1637003177.95/0/perl-podlators-2.5.1-3.amzn2.0.1.src.rpm-cosi-expand-archive-
  FoSo2iHN/podlators-2.5.1.tar.gz-cosi-expand-archive-mgg4QyIn/podlators-2.5.1/t/text-utf8.t
* /opt/cola/permits/1150898853_1637003177.95/0/perl-podlators-2.5.1-3.amzn2.0.1.src.rpm-cosi-expand-archive-
  FoSo2iHN/podlators-2.5.1.tar.gz-cosi-expand-archive-mgg4QyIn/podlators-2.5.1/lib/Pod/Text/Color.pm
* /opt/cola/permits/1150898853_1637003177.95/0/perl-podlators-2.5.1-3.amzn2.0.1.src.rpm-cosi-expand-archive-
  FoSo2iHN/podlators-2.5.1.tar.gz-cosi-expand-archive-mgg4QyIn/podlators-2.5.1/t/man-utf8.t
No license file was found, but licenses were detected in source scan.

# This program is free software; you may redistribute it and/or modify it
# under the same terms as Perl itself.
# version.

Found in path(s):
* /opt/cola/permits/1150898853_1637003177.95/0/perl-podlators-2.5.1-3.amzn2.0.1.src.rpm-cosi-expand-archive-FoSo2iHN/podlators-2.5.1.tar.gz-cosi-expand-archive-mgg4QyIn/podlators-2.5.1/t/filehandle.t
* /opt/cola/permits/1150898853_1637003177.95/0/perl-podlators-2.5.1-3.amzn2.0.1.src.rpm-cosi-expand-archive-FoSo2iHN/podlators-2.5.1.tar.gz-cosi-expand-archive-mgg4QyIn/podlators-2.5.1/t/text-encoding.t
* /opt/cola/permits/1150898853_1637003177.95/0/perl-podlators-2.5.1-3.amzn2.0.1.src.rpm-cosi-expand-archive-FoSo2iHN/podlators-2.5.1.tar.gz-cosi-expand-archive-mgg4QyIn/podlators-2.5.1/t/pod-parser.t
* /opt/cola/permits/1150898853_1637003177.95/0/perl-podlators-2.5.1-3.amzn2.0.1.src.rpm-cosi-expand-archive-FoSo2iHN/podlators-2.5.1.tar.gz-cosi-expand-archive-mgg4QyIn/podlators-2.5.1/t/pod-spelling.t
* /opt/cola/permits/1150898853_1637003177.95/0/perl-podlators-2.5.1-3.amzn2.0.1.src.rpm-cosi-expand-archive-FoSo2iHN/podlators-2.5.1.tar.gz-cosi-expand-archive-mgg4QyIn/podlators-2.5.1/t/man-options.t
* /opt/cola/permits/1150898853_1637003177.95/0/perl-podlators-2.5.1-3.amzn2.0.1.src.rpm-cosi-expand-archive-FoSo2iHN/podlators-2.5.1.tar.gz-cosi-expand-archive-mgg4QyIn/podlators-2.5.1/t/lib/Pod/Man.pm
* /opt/cola/permits/1150898853_1637003177.95/0/perl-podlators-2.5.1-3.amzn2.0.1.src.rpm-cosi-expand-archive-FoSo2iHN/podlators-2.5.1.tar.gz-cosi-expand-archive-mgg4QyIn/podlators-2.5.1/t/lib/Pod/Text.pm
* /opt/cola/permits/1150898853_1637003177.95/0/perl-podlators-2.5.1-3.amzn2.0.1.src.rpm-cosi-expand-archive-FoSo2iHN/podlators-2.5.1.tar.gz-cosi-expand-archive-mgg4QyIn/podlators-2.5.1/t/termcap.t
* /opt/cola/permits/1150898853_1637003177.95/0/perl-podlators-2.5.1-3.amzn2.0.1.src.rpm-cosi-expand-archive-FoSo2iHN/podlators-2.5.1.tar.gz-cosi-expand-archive-mgg4QyIn/podlators-2.5.1/t/overstrike.t
* /opt/cola/permits/1150898853_1637003177.95/0/perl-podlators-2.5.1-3.amzn2.0.1.src.rpm-cosi-expand-archive-FoSo2iHN/podlators-2.5.1.tar.gz-cosi-expand-archive-mgg4QyIn/podlators-2.5.1/t/text-perlio.t

No license file was found, but licenses were detected in source scan.
abstract: 'Convert POD data to various other formats'

author:
  - 'Russ Allbery <rra@stanford.edu>'

build_requires:
  ExtUtils::MakeMaker: 0

configure_requires:
  ExtUtils::MakeMaker: 0
distribution_type: module
dynamic_config: 0
generated_by: 'ExtUtils::MakeMaker version 6.57_05'
license: perl

meta-spec:
  url: http://module-build.sourceforge.net/META-spec-v1.4.html
  version: 1.4

name: podlators
no_index:
directory:
  - t
  - inc
requires:
  Encode: 0
  File::Spec: 0.8
  Pod::Simple: 3.06
version: 2.5.1

Found in path(s):
* /opt/cola/permits/1150898853_1637003177.95/0/perl-podlators-2.5.1-3.amzn2.0.1.src.rpm-cosi-expand-archive-FoSo2iHN/podlators-2.5.1.tar.gz-cosi-expand-archive-mgg4QyIn/podlators-2.5.1/MYMETA.yml

No license file was found, but licenses were detected in source scan.

#!perl

# pod2text -- Convert POD data to formatted ASCII text.
#
#     Russ Allbery <rra@stanford.edu>
#
# This program is free software; you may redistribute it and/or modify it
# under the same terms as Perl itself.
#
# The driver script for Pod::Text, Pod::Text::Termcap, and Pod::Text::Color,
# invoked by perldoc -t among other things.

require 5.004;

use Getopt::Long qw(GetOptions);
use Pod::Text ();
use Pod::Usage qw(pod2usage);
use strict;

# Clean up $0 for error reporting.
$0 =~ s%.*/%%;

# Take an initial pass through our options, looking for one of the form
# -<number> . We turn that into -w <number> for compatibility with the
# original pod2text script.
for (my $i = 0; $i < @ARGV; $i++) {
  last if $ARGV[$i] =~ /^--$/;
  if ($ARGV[$i] =~ /-\d+/s) {
    splice (@ARGV, $i++, 1, '-w', $1);
  }
}

# Insert -- into @ARGV before any single dash argument to hide it from
# Getopt::Long; we want to interpret it as meaning stdin (which Pod::Simple
# does correctly).
my $stdin;
@ARGV = map { $_ eq '-' && !$stdin++ ? ('--', $_) : $_ } @ARGV;

# Parse our options. Use the same names as Pod::Text for simplicity, and
# default to sentence boundaries turned off for compatibility.
my %options;
$options{sentence} = 0;
Getopt::Long::config ('bundling');
GetOptions (%options, 'alt|a', 'code', 'color|c', 'errors=s', 'help|h',
  'indent|i=i', 'loose|l', 'margin|left-margin|m=i', 'nourls',
  'overstrike|o', 'quotes|q=s', 'sentence|=s', 'stderr', 'termcap|t',
  'utf8|u', 'width|w=i')
or exit 1;
pod2usage (1) if $options{help};

# Figure out what formatter we're going to use. -c overrides -t.
my $formatter = 'Pod::Text';
if (defined $options{color}) {
  $formatter = 'Pod::Text::Color';
  eval { require Term::ANSIColor };  
  if ($@) { die "-c (--color) requires Term::ANSIColor be installed\n" }
  require Pod::Text::Color;
} elsif (defined $options{termcap}) {
  $formatter = 'Pod::Text::Termcap';
  require Pod::Text::Termcap;
} elsif (defined $options{overstrike}) {
  $formatter = 'Pod::Text::Overstrike';
  require Pod::Text::Overstrike;
}
delete @options{'color', 'termcap', 'overstrike'};

# If neither stderr nor errors is set, default to errors = die.
if (!defined $options{stderr} && !defined $options{errors}) {
    $options{errors} = 'die';
}

# Initialize and run the formatter.
my $parser = $formatter->new (%options);
my $status = 0;
do {
    my ($input, $output) = splice (@ARGV, 0, 2);
    $parser->parse_from_file ($input, $output);
    if ($parser->{CONTENTLESS}) {
        $status = 1;
        warn "$0: unable to format $input\n";
        if (defined ($output) and $output ne '-') {
            unlink $output unless (-s $output);
        }
    }
} while (@ARGV);
exit $status;

__END__

=for stopwords
-aclostu --alt --stderr Allbery --overstrike overstrike --termcap --utf8
UTF-8 subclasses --nourls

=head1 NAME

pod2text - Convert POD data to formatted ASCII text

=head1 SYNOPSIS

pod2text [B<-aclostu>] [B<-code>] [B<-errors>=I<style>] [B<-i> I<indent>]
S<[B<-q> I<quotes>]> [B<-nourls>] [B<-stderr>] S<[B<-w> I<width>]> 
[I<input> [I<output> ...]]

pod2text B<-h>

=head1 DESCRIPTION

B<pod2text> is a front-end for Pod::Text and its subclasses. It uses them
to generate formatted ASCII text from POD source. It can optionally use
either termcap sequences or ANSI color escape sequences to format the text.

I<input> is the file to read for POD source (the POD can be embedded in
If I<input> isn't given, it defaults to C<STDIN>.  I<output>, if given, is the file to which to write the formatted output.  If I<output> isn't given, the formatted output is written to C<STDOUT>.  Several POD files can be processed in the same B<pod2text> invocation (saving module load and compile times) by providing multiple pairs of I<input> and I<output> files on the command line.

=head1 OPTIONS

=over 4

=item B<-a>, B<--alt>

Use an alternate output format that, among other things, uses a different heading style and marks C<item> entries with a colon in the left margin.

=item B<--code>

Include any non-POD text from the input file in the output as well.  Useful for viewing code documented with POD blocks with the POD rendered and the code left intact.

=item B<-c>, B<--color>

Format the output with ANSI color escape sequences.  Using this option requires that Term::ANSIColor be installed on your system.

=item B<-i> I<indent>, B<--indent=>I<indent>

Set the number of spaces to indent regular text, and the default indentation for C<over> blocks.  Defaults to 4 spaces if this option isn't given.

=item B<-errors>=I<style>

Set the error handling style.  C<die> says to throw an exception on any POD formatting error.  C<stderr> says to report errors on standard error, but not to throw an exception.  C<pod> says to include a POD ERRORS section in the resulting documentation summarizing the errors.  C<none> ignores POD errors entirely, as much as possible.

The default is C<die>.

=item B<-h>, B<--help>

Print out usage information and exit.

=item B<-l>, B<--loose>
Print a blank line after a \texttt{\textless head1\textgreater} heading. Normally, no blank line is printed after \texttt{\textless head1\textgreater}, although one is still printed after \texttt{\textless head2\textgreater}, because this is the expected formatting for manual pages; if you're formatting arbitrary text documents, using this option is recommended.

\begin{itemize}
\item \texttt{-m \textless width\textgreater, \textless left-margin\textgreater=}\texttt{\textless width\textgreater, \textless margin\textgreater=}\texttt{\textless width\textgreater}
\end{itemize}

The width of the left margin in spaces. Defaults to 0. This is the margin for all text, including headings, not the amount by which regular text is indented; for the latter, see \texttt{-i} option.

\begin{itemize}
\item \texttt{--nourls}
\end{itemize}

Normally, LZ<<>> formatting codes with a URL but anchor text are formatted to show both the anchor text and the URL. In other words:

\begin{verbatim}
L<foo|http://example.com/>
\end{verbatim}

is formatted as:

\begin{verbatim}
foo <http://example.com/>
\end{verbatim}

This flag, if given, suppresses the URL when anchor text is given, so this example would be formatted as just \texttt{C<foo>}. This can produce less cluttered output in cases where the URLs are not particularly important.

\begin{itemize}
\item \texttt{-o, --overstrike}
\end{itemize}

Format the output with overstrike printing. Bold text is rendered as character, backspace, character. Italics and file names are rendered as underscore, backspace, character. Many pagers, such as \texttt{less}, know how to convert this to bold or underlined text.

\begin{itemize}
\item \texttt{-q \textless quotes\textgreater, \textless quotes\textgreater=}\texttt{\textless quotes\textgreater}
\end{itemize}

Sets the quote marks used to surround CE\texttt{\textless lt\textgreater} text to \texttt{\textless quotes\textgreater}. If \texttt{\textless quotes\textgreater} is a single character, it is used as both the left and right quote; if \texttt{\textless quotes\textgreater} is two characters, the first character is used as the left quote and the second as the right quoted; and if \texttt{\textless quotes\textgreater} is four characters, the first two are used as the left quote and the second two as the right quote.

\texttt{\textless quotes\textgreater} may also be set to the special value \texttt{\textless none\textgreater}, in which case no quote marks are added around CE\texttt{\textless lt\textgreater} text.

\begin{itemize}
\item \texttt{--sentence}
\end{itemize}

Assume each sentence ends with two spaces and try to preserve that spacing.
Without this option, all consecutive whitespace in non-verbatim paragraphs is compressed into a single space.

=item B|--stderr>

By default, B<pod2text> dies if any errors are detected in the POD input. If B|--stderr> is given and no B|--errors> flag is present, errors are sent to standard error, but B<pod2text> does not abort. This is equivalent to C|--errors=stderr> and is supported for backward compatibility.

=item B<-t>, B|--termcap>

Try to determine the width of the screen and the bold and underline sequences for the terminal from termcap, and use that information in formatting the output. Output will be wrapped at two columns less than the width of your terminal device. Using this option requires that your system have a termcap file somewhere where Term::Cap can find it and requires that your system support termios. With this option, the output of B<pod2text> will contain terminal control sequences for your current terminal type.

=item B<-u>, B|--utf8>

By default, B<pod2text> tries to use the same output encoding as its input encoding (to be backward-compatible with older versions). This option says to instead force the output encoding to UTF-8.

Be aware that, when using this option, the input encoding of your POD source must be properly declared unless it is US-ASCII or Latin-1. POD input without an C=<encoding> command will be assumed to be in Latin-1, and if it's actually in UTF-8, the output will be double-encoded. See L<perlpod(1)> for more information on the C=<encoding> command.

=item B<-w>, B|--width=>I<width>, B<->I<width>

The column at which to wrap text on the right-hand side. Defaults to 76, unless B<-t> is given, in which case it's two columns less than the width of your terminal device.

=back

=head1 EXIT STATUS

As long as all documents processed result in some output, even if that output includes errata (a C<POD ERRORS> section generated with C|--errors=pod>), B<pod2text> will exit with status 0. If any of the documents being processed do not result in an output document, B<pod2text> will exit with status 1. If there are syntax errors in a POD document
being processed and the error handling style is set to the default of C<br><br>die>, B<br>pod2text> will abort immediately with exit status 255.

=head1 DIAGNOSTICS

If B<br>pod2text> fails with errors, see L<br>Pod::Text> and L<br>Pod::Simple> for information about what those errors might mean. Internally, it can also produce the following diagnostics:

=over 4

=item -c (--color) requires Term::ANSIColor be installed

(F) B<br>-c> or B<br>--color> were given, but Term::ANSIColor could not be loaded.

=item Unknown option: %s

(F) An unknown command line option was given.

=back

In addition, other L<br>Getopt::Long> error messages may result from invalid command-line options.

=head1 ENVIRONMENT

=over 4

=item COLUMNS

If B<br>-t> is given, B<br>pod2text> will take the current width of your screen from this environment variable, if available. It overrides terminal width information in TERMCAP.

=item TERMCAP

If B<br>-t> is given, B<br>pod2text> will use the contents of this environment variable if available to determine the correct formatting sequences for your current terminal device.

=back

=head1 SEE ALSO

L<br>Pod::Text>, L<br>Pod::Text::Color>, L<br>Pod::Text::Overstrike>, L<br>Pod::Text::Termcap>, L<br>Pod::Simple>, L<br>perlpod(1)>
The current version of this script is always available from its web site at
L<http://www.eyrie.org/~eagle/software/podlators/>. It is also part of the
Perl core distribution as of 5.6.0.

=head1 AUTHOR

Russ Allbery <rra@stanford.edu>.

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=cut

Found in path(s):
* /opt/cola/permits/1150898853_1637003177.95/0/perl-podlators-2.5.1-3.amzn2.0.1.src.rpm-cosi-expand-archive-
  FoSo2iHN/podlators-2.5.1.tar.gz-cosi-expand-archive-mgg4QyIn/podlators-2.5.1/scripts/pod2text
No license file was found, but licenses were detected in source scan.

license: perl

Found in path(s):
* /opt/cola/permits/1150898853_1637003177.95/0/perl-podlators-2.5.1-3.amzn2.0.1.src.rpm-cosi-expand-archive-
  FoSo2iHN/podlators-2.5.1.tar.gz-cosi-expand-archive-mgg4QyIn/podlators-2.5.1/META.yml
No license file was found, but licenses were detected in source scan.

License: GPL+ or Artistic

Found in path(s):
* /opt/cola/permits/1150898853_1637003177.95/0/perl-podlators-2.5.1-3.amzn2.0.1.src.rpm-cosi-expand-archive-
  FoSo2iHN/perl-podlators.spec

1.1062 gulp-rename 1.4.0

1.1062.1 Available under license:

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1.1063 diffutils 3.7-1
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END OF TERMS AND CONDITIONS

Appendix: How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) 19yy <name of author>

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Foundation, Inc., 675 Mass Ave, Cambridge, MA 02139, USA.

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this
when it starts in an interactive mode:

Gnomovision version 69, Copyright (C) 19yy name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate
parts of the General Public License. Of course, the commands you use may
be called something other than `show w' and `show c'; they could even be
mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your
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necessary. Here is a sample; alter the names:

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`Gnomovision' (which makes passes at compilers) written by James Hacker.

<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

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Version 2, June 1991

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[This is the first released version of the library GPL. It is numbered 2 because it goes with version 2 of the ordinary GPL.]

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For example, if you distribute copies of the library, whether gratis or for a fee, you must give the recipients all the rights that we gave you. You must make sure that they, too, receive or can get the source code. If you link a program with the library, you must provide complete object files to the recipients so that they can relink them with the library, after making changes to the library and recompiling it. And you must show them these terms so they know their rights.

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Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that companies distributing free software will individually obtain patent licenses, thus in effect transforming the program into proprietary software. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License, which was designed for utility programs. This license, the GNU Library General Public License, applies to certain designated libraries. This license is quite different from the ordinary one; be sure to read it in full, and don't assume that anything in it is the same as in the ordinary license.

The reason we have a separate public license for some libraries is that they blur the distinction we usually make between modifying or adding to a program and simply using it. Linking a program with a library, without changing the library, is in some sense simply using the library, and is analogous to running a utility program or application program. However, in a textual and legal sense, the linked executable is a combined work, a derivative of the original library, and the ordinary General Public License treats it as such.

Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, while the latter only works together with the library.

Note that it is possible for a library to be covered by the ordinary
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A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification".)

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

1. You may copy and distribute verbatim copies of the Library's complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.
2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) The modified work must itself be a software library.

b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume or a storage or distribution medium does not bring the other work under
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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The
threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also compile or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

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b) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

c) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above
specified materials from the same place.

d) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

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.. parsed-literal::

    lib/gssapi/generic/gssapi_err_generic.et
    lib/gssapi/mechglue/g_accept_sec_context.c
    lib/gssapi/mechglue/g_acquire_cred.c
    lib/gssapi/mechglue/g_canon_name.c
    lib/gssapi/mechglue/g_compare_name.c
    lib/gssapi/mechglue/g_context_time.c
    lib/gssapi/mechglue/g_delete_sec_context.c
    lib/gssapi/mechglue/g_dsp_name.c
    lib/gssapi/mechglue/g_dsp_status.c
    lib/gssapi/mechglue/g_dup_name.c
    lib/gssapi/mechglue/g_exp_sec_context.c
    lib/gssapi/mechglue/g_export_name.c
    lib/gssapi/mechglue/g_glue.c
    lib/gssapi/mechglue/g_imp_name.c
    lib/gssapi/mechglue/g_imp_sec_context.c
    lib/gssapi/mechglue/g_init_sec_context.c
    lib/gssapi/mechglue/g_initialize.c
    lib/gssapi/mechglue/g_inquire_context.c
    lib/gssapi/mechglue/g_inquire_cred.c
    lib/gssapi/mechglue/g_inquire_names.c
    lib/gssapi/mechglue/g_process_context.c
    lib/gssapi/mechglue/g_rel_buffer.c
    lib/gssapi/mechglue/g_rel_cred.c
    lib/gssapi/mechglue/g_rel_name.c
and the initial implementation of incremental propagation, including
the following new or changed files:

.. parsed-literal::

    include/iprop_hdr.h
kadmin/server/ipropd_svc.c
    lib/kdb/iprop.x
    lib/kdb/kdb_convert.c
    lib/kdb/kdb_log.c
    lib/kdb/kdb_log.h
    lib/krb5/error_tables/kdb5_err.et
    kprop/kpropd_rpc.c
    kprop/kproplog.c

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<title>Copyright — MIT Kerberos Documentation</title>
<link rel="stylesheet" href="_static/agogo.css" type="text/css" />
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var DOCUMENTATION_OPTIONS = {

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<body>


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======================================================================

The implementations of GSSAPI mechglue in GSSAPI-SPNEGO in 
"src/lib/gssapi", including the following files:

lib/gssapi/generic/gssapi_err_generic.et 
lib/gssapi/mechglue/g_accept_sec_context.c 
lib/gssapi/mechglue/g_acquire_cred.c 
lib/gssapi/mechglue/g_canon_name.c 
lib/gssapi/mechglue/g_compare_name.c 
lib/gssapi/mechglue/g_context_time.c 
lib/gssapi/mechglue/g_delete_sec_context.c 
lib/gssapi/mechglue/g_dsp_name.c 
lib/gssapi/mechglue/g_dsp_status.c 
lib/gssapi/mechglue/g_dup_name.c 
lib/gssapi/mechglue/g_exp_sec_context.c 
lib/gssapi/mechglue/g_export_name.c 
lib/gssapi/mechglue/g_glue.c 
lib/gssapi/mechglue/g_imp_name.c 
lib/gssapi/mechglue/g_imp_sec_context.c 
lib/gssapi/mechglue/g_init_sec_context.c 
lib/gssapi/mechglue/g_initialize.c 
lib/gssapi/mechglue/g_inquire_context.c 
lib/gssapi/mechglue/g_inquire_cred.c 
lib/gssapi/mechglue/g_inquire_names.c 
lib/gssapi/mechglue/g_process_context.c 
lib/gssapi/mechglue/g_rel_buffer.c 
lib/gssapi/mechglue/g_rel_cred.c 
lib/gssapi/mechglue/g_rel_name.c 
lib/gssapi/mechglue/g_rel_oid_set.c 
lib/gssapi/mechglue/g_seal.c 
lib/gssapi/mechglue/g_sign.c 
lib/gssapi/mechglue/g_store_cred.c 
lib/gssapi/mechglue/g_unseal.c 
lib/gssapi/mechglue/g_userok.c 
lib/gssapi/mechglue/g_utils.c 
lib/gssapi/mechglue/g_verify.c 
lib/gssapi/mechglue/gssd_pname_to_uid.c 
lib/gssapi/mechglue/mglueP.h 
lib/gssapi/mechglue/oid_ops.c 
lib/gssapi/spnego/gssapiP_spnego.h 
lib/gssapi/spnego/spnego_mech.c

and the initial implementation of incremental propagation, including
the following new or changed files:

include/iprop_hdr.h
kadmin/server/ipropd_svc.c
lib/kdb/iprop.x
lib/kdb/kdb_convert.c
lib/kdb/kdb_log.c
lib/kdb/kdb_log.h
lib/krb5/error_tables/kdb5_err.et
kprop/kpropd_rpc.c
kprop/kproplog.c

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# and license statements in source code comments.

import os
import sys
import re

def warn(fname, ln, msg):
    print '%s: %d: %s' % (fname, ln + 1, msg)

def indicates_license(line):
    return 'Copyright' in line or 'COPYRIGHT' in line or 'License' in line

# Check a comment for boilerplate violations. Return true if the comment
# is a license statement.
def check_comment(comment, fname, ln, code_seen, nonlicense_seen):
    text_seen = False
    is_license = False
    for line in comment:
        if not is_license and indicates_license(line):
            is_license = True
        if text_seen:
            warn(fname, ln, 'License begins after first line of comment')
        elif code_seen:
            warn(fname, ln, 'License after code')

# This program is intended to be used by "make check-copyright". It
# checks for violations of the coding standards related to copyright
# and license statements in source code comments.
elif nonlicense_seen:
    warn(fname, ln, 'License after non-license comments')
    break

# DB2 licenses start with '/* -' and we don't want to change them.
if line != '-' and line != '-':
    text_seen = True

return is_license

def check_file(lines, fname):
    # Skip emacs mode line if present.
    ln = 0
    if '-*- mode: c;' in lines[ln]:
        ln += 1

    # Check filename comment if present.
    m = re.match(r'^ ([^ ]*) (- .*)? */', lines[ln])
    if m:
        if m.group(1) != fname:
            warn(fname, ln, 'Wrong filename in comment')
        ln += 1

    # Scan for license statements.
    in_comment = False
    code_seen = False
    nonlicense_seen = False
    for line in lines[ln:]:
        # Strip out whitespace and comments contained within a line.
        if not in_comment:
            line = re.sub(r'\^ *\^ */', '', line)
            line = line.strip()

        if not in_comment and '/*' in line:
            (line, sep, comment_part) = line.partition('/*')
            comment = [comment_part.strip()]
            comment_starts_at = ln
            in_comment = True
            elif in_comment and '*/' not in line:
                comment.append(line.lstrip('*').lstrip())
            elif in_comment:
                (comment_part, sep, line) = line.partition('*/')
                comment.append(comment_part.strip())

        is_license = check_comment(comment, fname, comment_starts_at,
                                     code_seen, nonlicense_seen)
        nonlicense_seen = nonlicense_seen or not is_license
        in_comment = False
        elif line.strip() != '':
            code_seen = True
In += 1

for fname in sys.argv[1:]:
    if fname.startswith('./ '):
        fname = fname[2:]
    f = open(fname)
    lines = f.readlines()
    f.close()
    check_file(lines, fname)

.. _mitK5license:

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================================

.. toctree::
   :hidden:

   copyright.rst

.. include:: notice.rst

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/*
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1.1071 qs 6.7.0

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1.1072 ejs 2.7.4

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To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) 19yy <name of author>

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If the program is interactive, make it output a short notice like this when it starts in an interactive mode:

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Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than `show w' and `show c'; they could even be mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the program, if
necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the program
`Gnomovision' (which makes passes at compilers) written by James Hacker.

<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

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[This is the first released version of the library GPL. It is
numbered 2 because it goes with version 2 of the ordinary GPL.]

Preamble

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The reason we have a separate public license for some libraries is that they blur the distinction we usually make between modifying or adding to a program and simply using it. Linking a program with a library, without changing the library, is in some sense simply using the library, and is analogous to running a utility program or application program. However, in a textual and legal sense, the linked executable is a combined work, a derivative of the original library, and the ordinary General Public License treats it as such.

Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.
However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, while the latter only works together with the library.

Note that it is possible for a library to be covered by the ordinary General Public License rather than by this special one.

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"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

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1.1094 open-mpi 2.1.1-8
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Python was created in the early 1990s by Guido van Rossum at Stichting
Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands
as a successor of a language called ABC. Guido remains Python's
principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for
National Research Initiatives (CNRI, see http://www.cnri.reston.va.us)
in Reston, Virginia where he released several versions of the
software.

In May 2000, Guido and the Python core development team moved to
BeOpen.com to form the BeOpen PythonLabs team. In October of the same
year, the PythonLabs team moved to Digital Creations, which became
Zope Corporation. In 2001, the Python Software Foundation (PSF, see
https://www.python.org/psf/) was formed, a non-profit organization
created specifically to own Python-related Intellectual Property.
Zope Corporation was a sponsoring member of the PSF.
All Python releases are Open Source (see http://www.opensource.org for the Open Source Definition). Historically, most, but not all, Python releases have also been GPL-compatible; the table below summarizes the various releases.

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(2) According to Richard Stallman, 1.6.1 is not GPL-compatible, because its license has a choice of law clause. According to CNRI, however, Stallman's lawyer has told CNRI's lawyer that 1.6.1 is "not incompatible" with the GPL.

Thanks to the many outside volunteers who have worked under Guido's direction to make these releases possible.

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*/
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Theodore Ts'o
23-June-2007

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The reason we have a separate public license for some libraries is that they blur the distinction we usually make between modifying or adding to a program and simply using it. Linking a program with a library, without changing the library, is in some sense simply using the library, and is analogous to running a utility program or application program. However, in a textual and legal sense, the linked executable is a combined work, a derivative of the original library, and the ordinary General Public License treats it as such.

Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, while the latter only works together with the library.

Note that it is possible for a library to be covered by the ordinary General Public License rather than by this special one.

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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

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You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

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b) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

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It may happen that this requirement contradicts the license
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<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

That's all there is to it!
This package was added to the e2fsprogs debian source package by Theodore Ts'o <tytso@mit.edu> on Sat Mar 15 15:33:37 EST 2003

It is part of the main e2fsprogs distribution, which can be found at:

http://sourceforge.net/projects/e2fsprogs

Upstream Author: Theodore Ts'o <tytso@mit.edu>

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This is the Debian GNU/Linux prepackaged version of the ss command-line interface parsing library. It is currently distributed together with the EXT2 file system utilities, which are otherwise packaged as "e2fsprogs".

This package was put together by Yann Dirson <dirson@debian.org>, from sources obtained from a mirror of:
tsx-11.mit.edu:/pub/linux/packages/ext2fs/

From the original distribution:

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#
# This is a Makefile stub which handles the creation of BSD shared
# libraries.
#
# In order to use this stub, the following makefile variables must be defined.
#
# BSDLIB_VERSION = 1.0
# BSDLIB_IMAGE = libce
# BSDLIB_MYDIR = et
# BSDLIB_INSTALL_DIR = $(SHLIBDIR)
#
all:: image

real-subdirs:: Makefile
@echo "MKDIR pic"
@mkdir -p pic

BSD_LIB = $(BSDLIB_IMAGE).so.$(BSDLIB_VERSION)
BSDLIB_PIC_FLAG = -fpic

image:$(BSD_LIB)

$(BSD_LIB): $(OBJS)
(cd pic; ld -Bshareable -o $(BSD_LIB) $(LDFLAGS_SHLIB) $(OBJS))
$(MV) pic/$(BSD_LIB) .
$(RM) -f ../$(BSD_LIB)
(cd ..; $(LN) $(LINK_BUILD_FLAGS) `echo $(my_dir) | sed -e 's;lib/;;'`/$(BSD_LIB) $(BSD_LIB))

install-shlibs install:: $(BSD_LIB)
@echo "INSTALL_PROGRAM $(BSDLIB_INSTALL_DIR)/$(BSD_LIB)"
@$(INSTALL_PROGRAM) $(BSD_LIB) $(DESTDIR)$(BSDLIB_INSTALL_DIR)/$(BSD_LIB)
@-$(LDCONFIG)

install-strip: install

install-shlibs-strip: install-shlibs

uninstall-shlibs uninstall::
$(RM) -f $(DESTDIR)$(BSDLIB_INSTALL_DIR)/$(BSD_LIB)

clean::
$(RM) -rf pic
$(RM) -f $(BSD_LIB)
$(RM) -f ../$(BSD_LIB)

This is the Debian GNU/Linux prepackaged version of the Common Error Description library. It is currently distributed together with the EXT2 file system utilities, which are otherwise packaged as "e2fsprogs".
This package was put together by Yann Dirson <dirson@debian.org>,
from sources obtained from a mirror of:
tsx-11.mit.edu:/pub/linux/packages/ext2fs/

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Gadi Oxman, August 1995

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@item
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@var{signature of Ty Coon}, 1 April 1990
Ty Coon, President of Vice
@end smallexample

That's all there is to it!
Description:
Concatenate two arbitrary file names.

Files:
lib/filenamecat.h
lib/filenamecat-lgpl.c
m4/filenamecat.m4

Depends-on:
dirname-lgpl

configure.ac:
gl_FILE_NAME CONCAT_LGPL

Makefile.am:
lib_SOURCES += filenamecat-lgpl.c

Include:
"filenamecat.h"

License:
LGPLv2+

Maintainer:
Jim Meyering

Please email the following information to assign@gnu.org, and we will send you the assignment form for your past and future changes.

Please use your full legal name (in ASCII characters) as the subject line of the message.

REQUEST: SEND FORM FOR PAST AND FUTURE CHANGES

[What is the name of the program or package you're contributing to?]

[Did you copy any files or text written by someone else in these changes? Even if that material is free software, we need to know about it.]

[Do you have an employer who might have a basis to claim to own your changes? Do you attend a school which might make such a claim?]

[For the copyright registration, what country are you a citizen of?]

[What year were you born?]
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[Which files have you changed so far, and which new files have you written so far?]

Description:
Provide the GNU Free Documentation License in Texinfo format.

Files:
doc/fdl.texi

Depends-on:
configure.ac:

Makefile.am:

Include:

License:
unmodifiable license text

Maintainer:
all

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Description:
Ensure getcwd(NULL, 0) returns a buffer allocated by the malloc() function.

Files:
lib/getcwd-lgpl.c
m4/getcwd.m4

Depends-on:
unistd
strdup [test $REPLACE_GETCWD = 1]

configure.ac:
gl_FUNC_GETCWD_LGPL
if test $REPLACE_GETCWD = 1; then
   AC_LIBOBJ([getcwd-lgpl])
fi
gl_UNISTD_MODULE_INDICATOR([getcwd])

Makefile.am:

Include:
<uunistd.h>

License:
LGPLv2+

Maintainer:
Eric Blake
Legal Issues about Contributing Code to GNU last updated 14 July 2015

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<signature of Mo Ghoul>, 1 April 1987
Mo Ghoul, President of Vice, Digital Simulation Corp.

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-----------------------------------------------------------------------
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Please write your email address here.

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Please list the files involved, or give a brief description of the changes being disclaimed.

Description:
realpath, canonicalize_file_name: Provide canonical absolute file name

Files:
lib/canonicalize-lgpl.c
m4/canonicalize.m4
m4/double-slash-root.m4

Depends-on:
extensions
stdlib
nocrash
alloca-opt    [test $HAVE_CANonicalize_FILE_NAME = 0 || test $REPLACE_CANonicalize_FILE_NAME = 1]
errno         [test $HAVE_CANonicalize_FILE_NAME = 0 || test $REPLACE_CANonicalize_FILE_NAME = 1]
lstat         [test $HAVE_CANonicalize_FILE_NAME = 0 || test $REPLACE_CANonicalize_FILE_NAME = 1]
malloca       [test $HAVE_CANonicalize_FILE_NAME = 0 || test $REPLACE_CANonicalize_FILE_NAME = 1]
memmove       [test $HAVE_CANonicalize_FILE_NAME = 0 || test $REPLACE_CANonicalize_FILE_NAME = 1]
pathmax       [test $HAVE_CANonicalize_FILE_NAME = 0 || test $REPLACE_CANonicalize_FILE_NAME = 1]
readlink      [test $HAVE_CANonicalize_FILE_NAME = 0 || test $REPLACE_CANonicalize_FILE_NAME = 1]
sys_stat [test $HAVE_CANONICALIZE_FILE_NAME = 0 || test $REPLACE_CANONICALIZE_FILE_NAME = 1]

configure.ac:

gl_CANONICALIZE_LGPL

if test $HAVE_CANONICALIZE_FILE_NAME = 0 || test $REPLACE_CANONICALIZE_FILE_NAME = 1; then
  AC_LIBOBJ([canonicalize-lgpl])
fi

gl_MODULE_INDICATOR([canonicalize-lgpl])
gl_STDLIB_MODULE_INDICATOR([canonicalize_file_name])
gl_STDLIB_MODULE_INDICATOR([realpath])

Makefile.am:

Include:
<stdlib.h>

License:
LGPLv2+

Maintainer:
all

description:
Extract specific portions of filenames.

Files:
lib/direname.h
lib/direname-lgpl.c
lib/basename-lgpl.c
lib/stripslash.c
m4/direname.m4

Depends-on:
dosname
double-slash-root
malloc-posix
stdbool

configure.ac:

gl_DIRNAME_LGPL

Makefile.am:

lib_SOURCES += dirname-lgpl.c basename-lgpl.c stripslash.c

Include:
"dirname.h"

License:
LGPLv2+

Maintainer:
Jim Meyering, Eric Blake

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Version 3, 29 June 2007

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Files:

tests/test-update-copyright.sh

Depends-on:

configure.ac:
abs_aux_dir=`cd "$ac_aux_dir"; pwd`
AC_SUBST([abs_aux_dir])

Makefile.am:
TESTS += test-update-copyright.sh
TESTS_ENVIRONMENT += abs_aux_dir='$(abs_aux_dir)'

Files:
tests/test-canonicalize-lgpl.c
tests/signature.h
tests/null-ptr.h
tests/macros.h

Depends-on:
ignore-value
same_inode
symlink
configure.ac:

Makefile.am:
TESTS += test-canonicalize-lgpl
check_PROGRAMS += test-canonicalize-lgpl
@c The GNU General Public License.
@center Version 2, June 1991

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@var{one line to give the program's name and a brief idea of what it does.}
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@end smallexample

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this when it starts in an interactive mode:

@smallexample
Gnomovision version 69, Copyright (C) @var{year} @var{name of author}
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it under certain conditions; type `show c' for details.
@end smallexample

The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than `show w' and `show c'; they could even be mouse-clicks or menu items---whatever suits your program.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a `copyright disclaimer' for the program, if necessary. Here is a sample; alter the names:

@example
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Help make libraries relocatable, that is, to allow them to function properly when copied to an arbitrary directory.

Files:

doc/relocatable.texi
lib/relocatable.h
lib/relocatable.c
lib/relocatable.valgrind
m4/relocatable-lib.m4

Depends-on:
strdup

configure.ac:

if test $RELOCATABLE = yes; then
    AC_LIBOBJ([relocatable])
fi
Makefile.am:
DEFS += -DNO_XMALLOC

Include:
"relocatable.h"

License:
LGPLv2+

Maintainer:
Ben Pfaff

Description:
Locating a program in PATH (LGPLed version).

Files:
lib/findprog.h
lib/findprog.c
lib/findprog-lgpl.c
m4/findprog.m4
m4/eaccess.m4

Depends-on:
stdbool
strdup
concat-filename
unistd

configure.ac:
gl_FINDPROG
gl_MODULE_INDICATOR([findprog-lgpl])

Makefile.am:
lib_SOURCES += findprog.h findprog.c

Include:
"findprog.h"

License:
LGPLv2+

Maintainer:
all

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Files:
tests/test-getcwd-lgpl.c
tests/signature.h
tests/macros.h

Depends-on:

configure.ac:

Makefile.am:
TESTS += test-getcwd-lgpl
check_PROGRAMS += test-getcwd-lgpl
test_getcwd_lgpl_LDADD = $(LDADD) $(LIBINTL)

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* github.com/BurntSushi/toml - https://github.com/BurntSushi/toml

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* github.com/google/renameio - https://github.com/google/renameio

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* github.com/rogpeppe/go-internal - https://github.com/rogpeppe/go-internal

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* golang.org/x/mod/module - https://github.com/golang/mod

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* golang.org/x/tools/go/analysis - https://github.com/golang/tools

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mgo - MongoDB driver for Go

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import "bitbucket.org/ww/goautoneg"

HTTP Content-Type Autonegotiation.

The functions in this package implement the behaviour specified in http://www.w3.org/Protocols/rfc2616/rfc2616-sec14.html

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FUNCTIONS

func Negotiate(header string, alternatives []string) (content_type string)
Negotiate the most appropriate content_type given the accept header and a list of alternatives.

func ParseAccept(header string) (accept []Accept)
Parse an Accept Header string returning a sorted list of clauses

TYPES

type Accept struct {
    Type, SubType string
    Q            float32
    Params       map[string]string
}
Structure to represent a clause in an HTTP Accept Header

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//
// For more information: http://goo.gl/8us55a#licenseObject
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    Name string `json:"name,omitempty"
    URL  string `json:"url,omitempty"
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package simulator

import (
    "github.com/vmware/govmomi/object"
    "github.com/vmware/govmomi/vim25/methods"
    "github.com/vmware/govmomi/vim25/mo"
    "github.com/vmware/govmomi/vim25/soap"
    "github.com/vmware/govmomi/vim25/types"
)

// EvalLicense is the default license
var EvalLicense = types.LicenseManagerLicenseInfo{
    LicenseKey: "00000-00000-00000-00000-00000",
    EditionKey: "eval",
    Name:       "Evaluation Mode",
    Properties: []types.KeyAnyValue{
        {Key: "feature",
         Value: types.KeyValue{
            Key:   "serialuri:2",
            Value: "Remote virtual Serial Port Concentrator",
         }},
        {Key: "feature",
         Value: types.KeyValue{
            Key:   "dvs",
            Value: "vSphere Distributed Switch",
         }},
    }
}

type LicenseManager struct {
    mo.LicenseManager
}
func NewLicenseManager(ref types.ManagedObjectReference) object.Reference {
    m := &LicenseManager{
        Self: ref,
       Licenses: []types.LicenseManagerLicenseInfo{EvalLicense}
    }
    if Map.IsVPX() {
        am := Map.Put(&LicenseAssignmentManager{}).Reference()
        m.LicenseAssignmentManager = &am
    }
    return m
}

func (m *LicenseManager) AddLicense(req *types.AddLicense) soap.HasFault {
    body := &methods.AddLicenseBody{
        Res: &types.AddLicenseResponse{}
    }
    for _, license := range m.Licenses {
        if license.LicenseKey == req.LicenseKey {
            body.Res.Returnval = licenseInfo(license.LicenseKey, license.Labels)
            return body
        }
    }
    m.Licenses = append(m.Licenses, types.LicenseManagerLicenseInfo{LicenseKey: req.LicenseKey, Labels: req.Labels})
    body.Res.Returnval = licenseInfo(req.LicenseKey, req.Labels)
    return body
}

func (m *LicenseManager) RemoveLicense(req *types.RemoveLicense) soap.HasFault {
    body := &methods.RemoveLicenseBody{
        Res: &types.RemoveLicenseResponse{}
    }
    for i, license := range m.Licenses {
        if req.LicenseKey == license.LicenseKey {
            m.Licenses = append(m.Licenses[:i], m.Licenses[i+1:...])
            return body
        }
    }
}
func (m *LicenseManager) UpdateLicenseLabel(req *types.UpdateLicenseLabel) soap.HasFault {
    body := &methods.UpdateLicenseLabelBody{

        for i := range m.Licenses {
            license := &m.Licenses[i]

            if req.LicenseKey != license.LicenseKey {
                continue
            }

            body.Res = new(types.UpdateLicenseLabelResponse)

            for j := range license.Labels {
                label := &license.Labels[j]

                if label.Key == req.LabelKey {
                    if req.LabelValue == "" {
                        license.Labels = append(license.Labels[:i], license.Labels[i+1:...]...)}
                    else {
                        label.Value = req.LabelValue
                    }
                    return body
                }
            }

            license.Labels = append(license.Labels, types.KeyValue{
                Key:   req.LabelKey,
                Value: req.LabelValue,
            })

            return body
        }

        body.Fault_ = Fault("", &types.InvalidArgument{InvalidProperty: "licenseKey"})
        return body
    }

    type LicenseAssignmentManager struct {
        mo.LicenseAssignmentManager
    }

    func (m *LicenseAssignmentManager) QueryAssignedLicenses(req *types.QueryAssignedLicenses) soap.HasFault {
        body := &methods.QueryAssignedLicensesBody{
            Res: &types.QueryAssignedLicensesResponse{},
        }
        return body
    }
// EntityId can be a HostSystem or the vCenter InstanceUuid
if req.EntityId != "" {
    if req.EntityId != Map.content().About.InstanceUuid {
        id := types.ManagedObjectReference{
            Type: "HostSystem",
            Value: req.EntityId,
        }
        if Map.Get(id) == nil {
            return body
        }
    }
}

body.Res.Returnval = []types.LicenseAssignmentManagerLicenseAssignment{
    {EntityId: req.EntityId,
     AssignedLicense: EvalLicense,
    },
}
return body

func licenseInfo(key string, labels []types.KeyValue) types.LicenseManagerLicenseInfo {
    info := EvalLicense
    info.LicenseKey = key
    info.Labels = labels
    return info
}

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mgo - MongoDB driver for Go

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package migration

import "fmt"

// Notice is a migration warning
type Notice struct {
    Plugin     string
    Option     string
    Severity   string // 'deprecated', 'removed', or 'unsupported'
    ReplacedBy string
    Additional string
    Version    string
}

func (n *Notice) ToString() string {
    s := ""
    if n.Option == "" {
        s += fmt.Sprintf("Plugin \"%v\" \", n.Plugin)
    } else {
        s += fmt.Sprintf("Option \"%v\" in plugin \"%v\" \", n.Option, n.Plugin)
    }
    if n.Severity == unsupported {
        s += "is unsupported by this migration tool in " + n.Version + "."
    }
    return s
}
else if n.Severity == newdefault {
    s += "is added as a default in " + n.Version + "." 
} else {
    s += "is " + n.Severity + " in " + n.Version + "." 
}
if n.ReplacedBy != "" {
    s += fmt.Sprintf(` It is replaced by "%v".`, n.ReplacedBy)
}
if n.Additional != "" {
    s += " " + n.Additional 
}
return s 

const ( 
    // The following statuses are used to indicate the state of support/deprecation in a given release.
    deprecated  = "deprecated" // deprecated, but still completely functional
    ignored     = "ignored"     // if included in the corefile, it will be ignored by CoreDNS
    removed     = "removed"     // completely removed from CoreDNS, and would cause CoreDNS to exit if present in
    // the Corefile
    newdefault  = "newdefault"  // added to the default corefile. CoreDNS may not function properly if it is not present in
    // the corefile.
    unsupported = "unsupported" // the plugin/option is not supported by the migration tool

    // The following statuses are used for selecting/filtering notifications
    all = "all" // show all statuses
    )

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- Copy files to and from Containers in a cluster

# Copying Container Files

## Motivation

- Copying files from Containers in a cluster to a local filesystem
- Copying files from a local filesystem to Containers in a cluster

Copy requires that *tar* be installed in the container image.

## Local to Remote

Copy a local file to a remote Pod in a cluster.

- Local file format is `<path>`
- Remote file format is `<pod-name>:<path>`

```bash
kubectl cp /tmp/foo_dir <some-pod>:/tmp/bar_dir
```

## Remote to Local

- Local file format is `<path>`
- Remote file format is `<pod-name>:<path>`

```bash
ekubectl cp <some-pod>:/tmp/another_dir /tmp/another_dir
```
Copy a remote file from a Pod to a local file.

- Local file format is `path`
- Remote file format is `<pod-name>:path`

```bash
kubectl cp <some-pod>:/tmp/foo /tmp/bar
```

## Specify the Container

Specify the Container within a Pod running multiple containers.

- `-c container-name`

```bash
kubectl cp /tmp/foo <some-pod>:/tmp/bar -c <specific-container>
```

## Namespaces

Set the Pod namespace by prefixing the Pod name with `namespace`.

- `<pod-namespace>/<pod-name>:path`

```bash
kubectl cp /tmp/foo <some-namespace>/<some-pod>:/tmp/bar
```

runc

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This license, the Lesser General Public License, applies to some specially designated software packages—-typically libraries—-of the Free Software Foundation and other authors who decide to use it. You can use it too, but we suggest you first think carefully about whether this license or the ordinary General Public License is the better strategy to use in any particular case, based on the explanations below.

When we speak of free software, we are referring to freedom of use, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish); that you receive source code or can get it if you want it; that you can change the software and use pieces of it in new free programs; and that you are informed that you can do these things.

To protect your rights, we need to make restrictions that forbid distributors to deny you these rights or to ask you to surrender these rights. These restrictions translate to certain responsibilities for you if you distribute copies of the library or if you modify it.

For example, if you distribute copies of the library, whether gratis or for a fee, you must give the recipients all the rights that we gave you. You must make sure that they, too, receive or can get the source
code. If you link other code with the library, you must provide complete object files to the recipients, so that they can relink them with the library after making changes to the library and recompiling it. And you must show them these terms so they know their rights.

We protect your rights with a two-step method: (1) we copyright the library, and (2) we offer you this license, which gives you legal permission to copy, distribute and/or modify the library.

To protect each distributor, we want to make it very clear that there is no warranty for the free library. Also, if the library is modified by someone else and passed on, the recipients should know that what they have is not the original version, so that the original author's reputation will not be affected by problems that might be introduced by others.

Finally, software patents pose a constant threat to the existence of any free program. We wish to make sure that a company cannot effectively restrict the users of a free program by obtaining a restrictive license from a patent holder. Therefore, we insist that any patent license obtained for a version of the library must be consistent with the full freedom of use specified in this license.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License. This license, the GNU Lesser General Public License, applies to certain designated libraries, and is quite different from the ordinary General Public License. We use this license for certain libraries in order to permit linking those libraries into non-free programs.

When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it
becomes
defacto standard. To achieve this, non-free programs must be
allowed to use the library. A more frequent case is that a free
library does the same job as widely used non-free libraries. In this
case, there is little to gain by limiting the free library to free
software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free
programs enables a greater number of people to use a large body of
free software. For example, permission to use the GNU C Library in
non-free programs enables many more people to use the whole GNU
operating system, as well as its variant, the GNU/Linux operating
system.

Although the Lesser General Public License is less protective of the
users' freedom, it does ensure that the user of a program that is
linked with the Library has the freedom and the wherewithal to run
that program using a modified version of the Library.

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"work based on the library" and a "work that uses the library". The
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A "library" means a collection of software functions and/or data
prepared so as to be conveniently linked with application programs
(which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work
which has been distributed under these terms. A "work based on the
Library" means either the Library or any derivative work under
copyright law: that is to say, a work containing the Library or a
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straightforwardly into another language. (Hereinafter, translation is
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"Source code" for a work means the preferred form of the work for
making modifications to it. For a library, complete source code means
all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

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2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

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b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the
application. Therefore, Subsection 2d requires that any
application-supplied function or table used by this function must
be optional: if the application does not supply it, the square
root function must still compute square roots.)

These requirements apply to the modified work as a whole. If
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This option is useful when you wish to copy part of the code of
the Library into a program that is not a library.

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must be distributed under the terms of Sections 1 and 2 above on a
medium customarily used for software interchange.
If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

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during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

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d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

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c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or
collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

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b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a
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1.1151 gojsonschema 1.2.0

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1.1152 ec2-net-utils 1.4-2.amzn2

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Name:  amazon-ec2-net-utils
Version: 2.0.0
Release: 1% {?dist}
Summary: utilities for managing network interfaces in Amazon EC2

License: Apache 2.0
URL:  https://github.com/aws/amazon-ec2-net-utils/
Source0: amazon-ec2-net-utils-% {version}.tar.xz

BuildArch: noarch
BuildRequires: make
Requires: systemd-networkd, udev, curl, iproute

%description
amazon-ec2-net-utils-ng provides udev integration and helper utilities
to manage network configuration in the Amazon EC2 cloud environment

%prep

%autoprop -n %name-%{version}

%install
make install DESTDIR=%{buildroot} PREFIX=/usr

%files
%{_sysconfdir}/sysctl.d/90-ipv6-dad.conf
%{_sysconfdir}/systemd/network/80-ec2.network
%{_sysconfdir}/systemd/system/policy-routes@.service
%{_sysconfdir}/systemd/system/refresh-policy-routes@.service
%{_sysconfdir}/systemd/system/refresh-policy-routes@.timer

%{_sysconfdir}/udev/rules.d/98-eni.rules
%{_sysconfdir}/udev/rules.d/99-vpc-policy-routes.rules
%{_bindir}/setup-policy-routes

%post

setup_policy_routes() {
    local iface node
    for node in /sys/class/net/*; do
        iface=$(basename $node)
        unset ID_NET_DRIVER
        eval $(udevadm info --export --query=property /sys/class/net/$iface)
        case $ID_NET_DRIVER in
            ena|ixgbevf|vif)
                systemctl start policy-routes@${iface}.service
                systemctl start refresh-policy-routes@${iface}.timer
            ;;
            *)
                echo "Skipping $iface with driver $ID_NET_DRIVER"
            ;;
        esac
    done
}

if [ $1 == 1 ]; then
    systemctl enable systemd-networkd.service
    systemctl enable systemd-resolved.service

systemctl disable NetworkManager-wait-online.service
systemctl disable NetworkManager.service
[ -f /etc/resolv.conf ] && mv /etc/resolv.conf /etc/resolv.conf.old
ln -sf /run/systemd/resolve/resolv.conf /etc/resolv.conf
if [ -d /run/systemd ]; then
  systemctl stop NetworkManager.service
  systemctl start systemd-networkd.service
  setup_policy_routes
fi
fi

%changelog

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* /opt/cola/permits/1085482582_1643238697.77/0/amazon-ec2-net-utils-main-zip/amazon-ec2-net-utils-
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1.1153 jwt-go 3.2.2+incompatible
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1.1154 cookie 0.4.0

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1.1155 core-cache 0.7.1

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1.1156 gpm 1.20.7-5

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### 1.1158 expat 2.2.0 2+deb9u3

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1.1159 jsoup 1.11.3

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1.1160 hashicorp-serf 0.8.5

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5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or
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However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. 

Section 6 states terms for distribution of such executables.

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If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

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with the Library, with the complete machine-readable "work that
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b) Use a suitable shared library mechanism for linking with the
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c) Accompany the work with a written offer, valid for at
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d) If distribution of the work is made by offering access to copy
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1.1182 path-to-regexp 0.1.7

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1.1183 minimalistic-crypto-utils 1.0.1
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# minimalistic-crypto-utils


Very minimal utils that are required in order to write reasonable JS-only crypto module.

```js
const utils = require('minimalistic-crypto-utils);

utils.toArray('abcd', 'hex');
utils.encode([ 1, 2, 3, 4 ], 'hex');
utils.toHex([ 1, 2, 3, 4 ]);
```

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[0]: http://tools.ietf.org/html/rfc6979
1.1184 python-jsonschema 2.5.1-3.amzn2.0.1

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1.1185 curl 7.66.0

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=========

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1.1186 base-passwd 3.5.44

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Name: base-passwd
Maintainer: Colin Watson <cjwatson@debian.org>

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*/
Index: tdbusa/tdb.c
===================================================================
--- tdbusa.orig/tdb.c
+++ tdbusa/tdb.c
@@ -4,11 +4,11 @@ Rev: 23371
Last Changed Date: 2007-06-06 20:14:06 -0400 (Wed, 06 Jun 2007)
*/
/*
- Unix SMB/CIFS implementation.
+ trivial database library - standalone version

- trivial database library - private includes
-
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Theodore Ts'o
23-June-2007

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The reason we have a separate public license for some libraries is that they blur the distinction we usually make between modifying or adding to a program and simply using it. Linking a program with a library, without changing the library, is in some sense simply using the library, and is analogous to running a utility program or application program. However, in a textual and legal sense, the linked executable is a combined work, a derivative of the original library, and the ordinary General Public License treats it as such.

Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.
The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, while the latter only works together with the library.

Note that it is possible for a library to be covered by the ordinary General Public License rather than by this special one.

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"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

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Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

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library”. The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

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b) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

c) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

d) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

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That's all there is to it!
This package was added to the e2fsprogs debian source package by
Theodore Ts'o <tytso@mit.edu> on Sat Mar 15 15:33:37 EST 2003

It is part of the main e2fsprogs distribution, which can be found at:

http://sourceforge.net/projects/e2fsprogs

Upstream Author: Theodore Ts'o <tytso@mit.edu>

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DAMAGE.

This is the Debian GNU/Linux prepackaged version of the ss
command-line interface parsing library. It is currently
distributed together with the EXT2 file system utilities, which are
otherwise packaged as "e2fsprogs".
This package was put together by Yann Dirson <dirson@debian.org>,
from sources obtained from a mirror of:
tsx-11.mit.edu:/pub/linux/packages/ext2fs/

From the original distribution:

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#
# This is a Makefile stub which handles the creation of BSD shared
# libraries.
#
# In order to use this stub, the following makefile variables must be defined.
#
# BSDLIB_VERSION = 1.0
# BSDLIB_IMAGE = libce
# BSDLIB_MYDIR = et
# BSDLIB_INSTALL_DIR = $(SHLIBDIR)
#
all:: image

real-subdirs:: Makefile
@echo "MKDIR pic"
@mkdir -p pic

BSD_LIB = $(BSDLIB_IMAGE).so.$(BSDLIB_VERSION)
BSDLIB_PIC_FLAG = -fpic

image:$(BSD_LIB)

$(BSDLIB): $(OBS)
(cd pic; ld -Bshareable -o $(BSD_LIB) $(LDFLAGS_SHLIB) $(OBS))
$(MV) pic/$(BSD_LIB) .
$(RM) -f ../../../$(BSD_LIB)
This is the Debian GNU/Linux prepackaged version of the Common Error Description library. It is currently distributed together with the EXT2 file system utilities, which are otherwise packaged as 'e2fsprogs'.

This package was put together by Yann Dirson <dirson@debian.org>, from sources obtained from a mirror of:
tsx-11.mit.edu:/pub/linux/packages/ext2fs/

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Gadi Oxman, August 1995
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package main

import (
    "bufio"
    "bytes"
    "flag"
    "fmt"
    "io"
    "log"
    "os"
    "path/filepath"
    "strings"
)

const crUsageString = `xb copyright [options] <path>....`

The xb copyright command adds a copyright remark to all go files below path.
-h  prints this message and exits
`

func crUsage(w io.Writer) {
    fmt.Fprint(w, crUsageString)
}

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`
newPath := path + ".new"
dst, err := os.Create(newPath)
if err != nil {
    return err
}
def errr() {
    cerr := dst.Close()
    if cerr != nil && err == nil {
        err = cerr
    }
}
out := bufio.NewWriter(dst)
fmt.Fprint(out, goCopyright)
scanner := bufio.NewScanner(src)
line := 0
del := false
for scanner.Scan() {
    line++
    txt := scanner.Text()
    if line == 1 && strings.Contains(txt, "Copyright") {
        del = true
        continue
    }
    if del {
        s := strings.TrimSpace(txt)
        if len(s) == 0 {
            del = false
        }
        continue
    }
    fmt.Fprintln(out, txt)
}
if err = scanner.Err(); err != nil {
    return err
}
if err = out.Flush(); err != nil {
    return
}
err = os.Rename(newPath, path)
return

func walkCopyrights(path string, info os.FileInfo, err error) error {
    if err != nil {
        return err
    }
}
if info.IsDir() {
    return nil
}
if !strings.HasSuffix(info.Name(), ".go") {
    return nil
}
return addCopyright(path)

func copyright() {
    cmdName := os.Args[0]
    log.SetPrefix(fmt.Sprintf("%s: ", cmdName))
    log.SetFlags(0)

    flag.CommandLine = flag.NewFlagSet(cmdName, flag.ExitOnError)
    flag.Usage = func() { crUsage(os.Stderr); os.Exit(1) }

    help := flag.Bool("h", false, "")

    flag.Parse()

    if *help {
        crUsage(os.Stdout)
        os.Exit(0)
    }

    for _, path := range flag.Args() {
        fi, err := os.Stat(path)
        if err != nil {
            log.Print(err)
            continue
        }
        if !fi.IsDir() {
            log.Printf("%s is not a directory", path)
            continue
        }
        if err = filepath.Walk(path, walkCopyrights); err != nil {
            log.Fatalf("%s error %s", path, err)
        }
    }
}

package main

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1.1202 iproute 5.2.0-1

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Because of this blurred distinction, using the ordinary General
Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.

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PLY (Python Lex-Yacc) Version 3.10

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compiler/cpp/src/thrift/main.cc
compiler/cpp/src/thrift/parse/t_field.h
compiler/cpp/src/thrift/parse/t_program.h
compiler/cpp/src/thrift/platform.h
compiler/cpp/src/thrift/thriftll.cc
compiler/cpp/src/thrift/thifty.yy
lib/netstd/Thrift/Protocol/TBinaryProtocol.cs
lib/netstd/Thrift/Protocol/Entities/TField.cs
lib/netstd/Thrift/Protocol/Entities/TList.cs
lib/netstd/Thrift/Protocol/Entities/TMap.cs
lib/netstd/Thrift/Protocol/Entities/TMessage.cs
lib/netstd/Thrift/Protocol/Entities/TMessageType.cs
lib/netstd/Thrift/Protocol/TPayload.cs
lib/netstd/Thrift/Protocol/TPublicMethod.cs
lib/netstd/Thrift/Protocol/TProtocol.cs
lib/netstd/Thrift/Protocol/TProtocolException.cs
lib/netstd/Thrift/Protocol/TProtocolFactory.cs
lib/netstd/Thrift/Protocol/Utilities/TProtocolUtil.cs
lib/netstd/Thrift/Protocol/Entities/TSet.cs
lib/netstd/Thrift/Protocol/Entities/TStruct.cs
lib/netstd/Thrift/Protocol/Entities/TType.cs
lib/netstd/Thrift/Server/TServer.cs
lib/netstd/Thrift/Server/TSimpleAsyncServer.cs
lib/netstd/Thrift/Server/TThreadPoolAsyncServer.cs
lib/netstd/Thrift/TApplicationException.cs
lib/netstd/Thrift/Thrift.csproj
lib/netstd/Thrift.sln
lib/netstd/Thrift/Transport/Server/TServerSocketTransport.cs
lib/netstd/Thrift/Transport/Server/TServerTransport.cs
lib/netstd/Thrift/Transport/Client/TSocketTransport.cs
lib/netstd/Thrift/Transport/Client/TStreamTransport.cs
lib/netstd/Thrift/Transport/TTransport.cs
lib/netstd/Thrift/Transport/TTransportException.cs
lib/netstd/Thrift/Transport/TTransportFactory.cs
lib/netstd/Tests/Thrift.PublicInterfaces.Compile.Tests/Properties/AssemblyInfo.cs
lib/rb/lib/thrift.rb
lib/st/README.md
lib/st/thrift.st
lib/cpp/test/OptionalRequiredTest.cpp
test/OptionalRequiredTest.thrift
test/ThriftTest.thrift

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lib/erl/src/Makefile.am

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 */
(By Douglas Crockford <douglas@crockford.com>)

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 */

For lib/py/compat/win32/stdint.h

// ISO C9x compliant stdint.h for Microsoft Visual Studio
// Based on ISO/IEC 9899:TC2 Committee draft (May 6, 2005) WG14/N1124
//
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-----------------------------------------------
1.1214 pillow 2.0.0-20.gitd1c6db8.amzn2.0.1

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Name: custompalette
Columns: 4

#
0 0 0  Index 3
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Columns: 4
#
0 0 0 Index 3
012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
34567890123456789
103 62 49 Index 6
79 73 72 Index 7
114 101 97 Index 8

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ArefRuqaa-Regular.ttf, from https://github.com/google/fonts/tree/master/ofl/arefruqaa
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#
  0  0  0     Index 3
 65  38
 103  62  49     Index 6
  79  73  72     Index 7
 114 101  97     Index 8
 208 127 100     Index 9
 151 144 142     Index 10
 221 207 199     Index 11

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1.1219 negroni 1.0.0
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1.1221 x-text 0.3.5

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1.1222 go-colorable 0.1.6

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1.1228 @ampproject/toolbox-runtime-version

2.7.4

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1.1229 unzip 6.0-43.amzn2

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The original unzip source code has been extensively modified and almost entirely rewritten (changes include random zipfile access rather than sequential; replacement of unimplode() with explode(); replacement of old unshrink() with new (unrelated) unshrink(); replacement of output routines; addition of inflate(), wildcards, filename-mapping, text translation, ...; etc.). As far as we can tell, only the core code of the unreduce method remained substantially similar to Mr. Smith's original source. As of UnZip 5.42, the complete core code is now covered by the Info-ZIP Licence. Therefore, support for the reduce method has been removed.

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"He says that he thought that whoever contacted him understood that he has no objection to the Info-ZIP group's inclusion of his code. His primary concern is that it remain freely distributable, he said."

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The remaining code was written by many people associated with the
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Greg Roelofs (overall program logic, ZipInfo, unshrink, filename
mapping/portability, etc.), Mark Adler (inflate, explode, funzip),
Kai Uwe Rommel (OS/2), John Bush and Paul Kienitz (Amiga), Antoine
Verheijen (Macintosh), Hunter Goatley (more VMS), Mike White (Windows
DLLs), Christian Spieler (overall logic, optimization, VMS, etc.) and
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The decompression core code for the deflate method (inflate.[ch],
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--------------------------------------------------------------------------

1.1230 automat 0.6.0 1
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1.1234 busybox 1.30.1

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It was downloaded from https://github.com/iputils/iputils

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Changes:
* added Debian GNU/Linux package maintenance system files
* at times, bug fixes awaiting inclusion in the upstream source

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doc/coreutils.texi (The GNU Coreutils Manual)

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1.1271 abort-controller 3.0.0

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1.1274 glib 0.6000.6

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Version 2.1, February 1999
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=head1 NAME
constant - Perl pragma to declare constants

=head1 SYNOPSIS

use constant PI => 4 * atan2(1, 1);
use constant DEBUG => 0;

print "Pi equals ", PI, "\n" if DEBUG;

use constant {
    SEC => 0,
    MIN => 1,
    HOUR => 2,
    MDAY => 3,
    MON => 4,
    YEAR => 5,
    WDAY => 6,
    YDAY => 7,
    ISDST => 8,
};

use constant WEEKDAYS => qw(
    Sunday Monday Tuesday Wednesday Thursday Friday Saturday
);

print "Today is ", (WEEKDAYS)[ (localtime)[WDAY] ], "\n";

=head1 DESCRIPTION

This pragma allows you to declare constants at compile-time.

When you declare a constant such as C<PI> using the method shown
above, each machine your script runs upon can have as many digits of accuracy as it can use. Also, your program will be easier to read, more likely to be maintained (and maintained correctly), and far less likely to send a space probe to the wrong planet because nobody noticed the one equation in which you wrote C<3.14195>.

When a constant is used in an expression, Perl replaces it with its value at compile time, and may then optimize the expression further. In particular, any code in an C<if (CONSTANT)> block will be optimized away if the constant is false.

=head1 NOTES

As with all C<use> directives, defining a constant happens at compile time. Thus, it's probably not correct to put a constant declaration inside of a conditional statement (like C<if ($foo) { use constant ... }>).

Constants defined using this module cannot be interpolated into strings like variables. However, concatenation works just fine:

  print "Pi equals \PI...
":    # WRONG: does not expand "PI"
  print "Pi equals \PI...\n":    # right

Even though a reference may be declared as a constant, the reference may point to data which may be changed, as this code shows.

  use constant ARRAY => [ 1,2,3,4 ];
  print ARRAY->[1];
  ARRAY->[1] = " be changed";
  print ARRAY->[1];

Dereferencing constant references incorrectly (such as using an array subscript on a constant hash reference, or vice versa) will be trapped at compile time.

Constants belong to the package they are defined in. To refer to a constant defined in another package, specify the full package name, as in C<Some::Package::CONSTANT>. Constants may be exported by modules, and may also be called as either class or instance methods, that is, as C<< Some::Package->CONSTANT >> or as C<< $obj->CONSTANT >> where C<$obj> is an instance of C<Some::Package>. Subclasses may define their own constants to override those in their base class.

The use of all caps for constant names is merely a convention, although it is recommended in order to make constants stand out and to help avoid collisions with other barewords, keywords, and subroutine names. Constant names must begin with a letter or
underscore. Names beginning with a double underscore are reserved. Some poor choices for names will generate warnings, if warnings are enabled at compile time.

=head2 List constants

Constants may be lists of more (or less) than one value. A constant with no values evaluates to C<undef> in scalar context. Note that constants with more than one value do I<not> return their last value in scalar context as one might expect. They currently return the number of values, but B<this may change in the future>. Do not use constants with multiple values in scalar context.

B<NOTE:> This implies that the expression defining the value of a constant is evaluated in list context. This may produce surprises:

use constant TIMESTAMP => localtime;    # WRONG!
use constant TIMESTAMP => scalar localtime;    # right

The first line above defines C<TIMESTAMP> as a 9-element list, as returned by C<localtime()> in list context. To set it to the string returned by C<localtime()> in scalar context, an explicit C<scalar> keyword is required.

List constants are lists, not arrays. To index or slice them, they must be placed in parentheses.

my @workdays = WEEKDAYS[1 .. 5];    # WRONG!
my @workdays = (WEEKDAYS)[1 .. 5];    # right

=head2 Defining multiple constants at once

Instead of writing multiple C<use constant> statements, you may define multiple constants in a single statement by giving, instead of the constant name, a reference to a hash where the keys are the names of the constants to be defined. Obviously, all constants defined using this method must have a single value.

use constant {
    FOO => "A single value",
    BAR => "This", "won't", "work!",    # Error!
};

This is a fundamental limitation of the way hashes are constructed in Perl. The error messages produced when this happens will often be quite cryptic -- in the worst case there may be none at all, and you'll only later find that something is broken.
When defining multiple constants, you cannot use the values of other constants defined in the same declaration. This is because the calling package doesn’t know about any constant within that group until I<after> the C<use> statement is finished.

use constant {
    BITMASK => 0xAFBAEBA8,
    NEGMASK => ~BITMASK,  # Error!
};

=head2 Magic constants

Magical values and references can be made into constants at compile time, allowing for way cool stuff like this. (These error numbers aren’t totally portable, alas.)

use constant E2BIG => ($! = 7);
print   E2BIG, "\n";       # something like ”Arg list too long”
print 0+E2BIG, "\n";       # ”7"

You can’t produce a tied constant by giving a tied scalar as the value. References to tied variables, however, can be used as constants without any problems.

=head1 TECHNICAL NOTES

In the current implementation, scalar constants are actually inlinable subroutines. As of version 5.004 of Perl, the appropriate scalar constant is inserted directly in place of some subroutine calls, thereby saving the overhead of a subroutine call. See L<perlsub/"Constant Functions"> for details about how and when this happens.

In the rare case in which you need to discover at run time whether a particular constant has been declared via this module, you may use this function to examine the hash C<%constant::declared>. If the given constant name does not include a package name, the current package is used.

sub declared ($) {  
    use constant 1.01;  # don’t omit this!
    my $name = shift;
    $name =~ s/^::/main::/;
    my $pkg = caller;
    my $full_name = $name =~ /::/ ? $name : "${pkg}::$name";
    $constant::declared{$full_name};
}
=head1 CAVEATS

In the current version of Perl, list constants are not inlined and some symbols may be redefined without generating a warning.

It is not possible to have a subroutine or a keyword with the same name as a constant in the same package. This is probably a Good Thing.

A constant with a name in the list C<STDIN STDOUT STDERR ARGV ARGVOUT ENV INC SIG> is not allowed anywhere but in package C<main::>, for technical reasons.

Unlike constants in some languages, these cannot be overridden on the command line or via environment variables.

You can get into trouble if you use constants in a context which automatically quotes barewords (as is true for any subroutine call). For example, you can't say C<$hash{CONSTANT}> because C<CONSTANT> will be interpreted as a string. Use C<$hash{CONSTANT()}> or C<$hash{+CONSTANT}> to prevent the bareword quoting mechanism from kicking in. Similarly, since the C<< == >> operator quotes a bareword immediately to its left, you have to say C<< CONSTANT() => 'value' >> (or simply use a comma in place of the big arrow) instead of C<< CONSTANT => 'value' >>.

=head1 SEE ALSO

L<Readonly> - Facility for creating read-only scalars, arrays, hashes.

L<Attribute::Constant> - Make read-only variables via attribute

L<Scalar::Readonly> - Perl extension to the C<SvREADONLY> scalar flag

L<Hash::Util> - A selection of general-utility hash subroutines (mostly to lock/unlock keys and values)

=head1 BUGS

Please report any bugs or feature requests via the perlbug(1) utility.

=head1 AUTHORS

Tom Phoenix, E<lt>F<rootbeer@redcat.com>E<gt>, with help from many other folks.

Multiple constant declarations at once added by Casey West, E<lt>F<casey@geeknest.com>E<gt>.
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NAME

constant - Perl pragma to declare constants

DESCRIPTION

This pragma allows you to declare constants at compile-time.

When a constant is used in an expression, Perl replaces it with its value at compile time, and may then optimize the expression further. In particular, any code in an "if (CONSTANT)" block will be optimized away if the constant is false.

INSTALLATION

To install this module, run the following commands:

perl Makefile.PL
make
make test
make install

Alternatively, to install with Module::Build, you can use the following commands:
perl Build.PL
./Build
./Build test
./Build install

SUPPORT AND DOCUMENTATION

After installing, you can find documentation for this module with the perldoc command.

    perldoc constant

You can also look for information at:

    Search CPAN
    http://search.cpan.org/dist/constant

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    http://rt.cpan.org/Dist/Display.html?Name=constant

    AnnoCPAN, annotated CPAN documentation:
    http://annocpan.org/dist/constant

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    http://cpanratings.perl.org/d/constant

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* /opt/cola/permits/1150898810_1634080850.11/0/perl-constant-1.27-2.amzn2.0.1.src.rpm-cosi-expand-archive-AEHhz1LC/constant-1.27.tar.gz-cosi-expand-archive-ev5tPtsK/constant-1.27/README

No license file was found, but licenses were detected in source scan.

---
abstract: 'Perl pragma to declare constants'
author:
  - 'Sébastien Aperghis-Tramoni <sebastien@aperghis.net>'
build_requires:
  Test::More: 0
configure_requires:
Module::Build: 0.2808
1.1279 binutils 2.30

1.1279.1 Available under license:

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the documentation, and info on specific files will go into an AUTHORS
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++++++++++++++++

Dean Elsner wrote the original gas for vax. [more details?]

Jay Fenlason maintained gas for a while, adding support for
gdb-specific debug information and the 68k series machines, most of
the preprocessing pass, and extensive changes in messages.c,
input-file.c, write.c.

K. Richard Pixley maintained gas for a while, adding various
enhancements and many bug fixes, including merging support for several
processors, breaking gas up to handle multiple object file format
backends (including heavy rewrite, testing, an integration of the coff
and b.out backends), adding configuration including heavy testing and
verification of cross assemblers and file splits and renaming,
converted gas to strictly ansi C including full prototypes, added
support for m680[34]0 & cpu32, considerable work on i960 including a
coff port (including considerable amounts of reverse engineering), a
sparc opcode file rewrite, decstation, rs6000, and hp300hpux host
ports, updated "know" assertions and made them work, much other
reorganization, cleanup, and lint.

Ken Raeburn wrote the high-level BFD interface code to replace most of
the code in format-specific I/O modules.

The original Vax-VMS support was contributed by David L. Kashtan.
Eric Youngdale and Pat Rankin have done much work with it since.

The Intel 80386 machine description was written by Eliot Dresselhaus.

Minh Tran-Le at IntelliCorp contributed some AIX 386 support.

The Motorola 88k machine description was contributed by Devon Bowen of
Buffalo University and Torbjorn Granlund of the Swedish Institute of
Computer Science.

Keith Knowles at the Open Software Foundation wrote the original MIPS
back end (tc-mips.c, tc-mips.h), and contributed Rose format support
that hasn't been merged in yet. Ralph Campbell worked with the MIPS
code to support a.out format.

Support for the Zilog Z8k and Hitachi H8/300, H8/500 and SH processors
(tc-z8k, tc-h8300, tc-h8500, tc-sh), and IEEE 695 object file format
(obj-ieee), was written by Steve Chamberlain of Cygnus Solutions.
Steve also modified the COFF back end (obj-coffbfd) to use BFD for
some low-level operations, for use with the Hitachi, 29k and Zilog
targets.

John Gilmore built the AMD 29000 support, added .include support, and
simplified the configuration of which versions accept which
pseudo-ops. He updated the 68k machine description so that Motorola's
opcodes always produced fixed-size instructions (e.g. jsr), while
synthetic instructions remained shrinkable (jbsr). John fixed many
bugs, including true tested cross-compilation support, and one bug in
relaxation that took a week and required the proverbial one-bit fix.

Ian Lance Taylor of Cygnus Solutions merged the Motorola and MIT
syntaxes for the 68k, completed support for some COFF targets (68k,
i386 SVR3, and SCO Unix), wrote the ECOFF support based on Michael
Meissner's mips-tfile program, wrote the PowerPC and RS/6000 support, and made a few other minor patches. He handled the binutils releases for versions 2.7 through 2.9.

David Edelsohn contributed fixes for the PowerPC and AIX support.

Steve Chamberlain made gas able to generate listings.

Support for the HP9000/300 was contributed by Glenn Engel of HP.

Support for ELF format files has been worked on by Mark Eichin of Cygnus Solutions (original, incomplete implementation), Pete Hoogenboom at the University of Utah (HPPA mainly), Michael Meissner of the Open Software Foundation (i386 mainly), and Ken Raeburn of Cygnus Solutions (sparc, initial 64-bit support).

Several engineers at Cygnus Solutions have also provided many small bug fixes and configuration enhancements.

The initial Alpha support was contributed by Carnegie-Mellon University. Additional work was done by Ken Raeburn of Cygnus Solutions. Richard Henderson then rewrote much of the Alpha support.

Ian Dall updated the support code for the National Semiconductor 32000 series, and added support for Mach 3 and NetBSD running on the PC532.

Klaus Kaempf ported the assembler and the binutils to openVMS/Alpha.

Steve Haworth contributed the support for the Texas Instruction c30 (tms320c30).

H.J. Lu has contributed many patches and much testing.

Alan Modra reworked much of the i386 backend, improving the error checking, updating the code, and improving the 16 bit support, using patches from the work of Martynas Kunigelis and H.J. Lu.

Many others have contributed large or small bugfixes and enhancements. If you've contributed significant work and are not mentioned on this list, and want to be, let us know. Some of the history has been lost; we aren't intentionally leaving anyone out.

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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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Calling this script install-sh is preferred over install.sh, to prevent
`make' implicit rules from creating a file called install from it
when there is no Makefile.

This script is compatible with the BSD install script, but was written
from scratch. It can only install one file at a time, a restriction
shared with many OS's install programs.

On Debian systems, the complete text of the GNU General
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-- vile: txtmode file-encoding=utf-8
Upstream source https://invisible-island.net/ncurses/ncurses.html
This package is used for testing builds of ncurses.

Current ncurses maintainer: Thomas Dickey <dickey@invisible-island.net>

--------------------------------------------------------------------------------
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-- vile: txtmode file-encoding=utf-8
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when there is no Makefile.

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-- vile: txtmode fc=72
-- $Id: COPYING,v 1.9 2020/02/08 13:34:12 tom Exp $

1.1293 es-to-primitive 1.2.1

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1.1294 tcp-dump 4.9.2-4.amzn2.1

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1.1295 stylis-rule-sheet 0.0.10
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1.1296 perl-getopt-long 2.40-3.amzn2

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1.1297 ssss 1.16.4-21.amzn2

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1.1300 gauge 2.7.4

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1.1301 kerberos 5

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```
```
lib/gss_mechs/mech_krb5/et/kdb5_err.c
```
```
lib/gss_mechs/mech_spnego/mech/gssapiP_spnego.h
```
```
lib/gss_mechs/mech_spnego/mech/spnego_mech.c
```
```
lib/krb5/kadm5/kadm_host_srv_names.c
```
```
lib/krb5/kdb/kdb_convert.c
```
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lib/krb5/kdb/kdb_hdr.h
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```
```
lib/libgss/g_accept_sec_context.c
```
```
lib/libgss/g_acquire_cred.c
```
lib/libgss/g_canon_name.c
lib/libgss/g_compare_name.c
lib/libgss/g_context_time.c
lib/libgss/g_delete_sec_context.c
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lib/libgss/g_init_sec_context.c
lib/libgss/g_initialize.c
lib/libgss/g_inquire_context.c
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lib/libgss/g_inquire_names.c
lib/libgss/g_process_context.c
lib/libgss/g_rel_buffer.c
lib/libgss/g_rel_cred.c
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lib/libgss/g_unseal.c
lib/libgss/g_userok.c
lib/libgss/g_utils.c
lib/libgss/gssd_pname_to_uid.c
uts/common/gssapi/include/gssapi_err_generic.h
uts/common/gssapi/include/mechglueP.h

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lib/gssapi/mechglue/g_accept_sec_context.c
lib/gssapi/mechglue/g_acquire_credential.c
lib/gssapi/mechglue/g_canonicalize_name.c
lib/gssapi/mechglue/g_compare_name.c
lib/gssapi/mechglue/g_context_time.c
lib/gssapi/mechglue/g_destroy_context.c
lib/gssapi/mechglue/g_display_name.c
lib/gssapi/mechglue/g_display_status.c
lib/gssapi/mechglue/g_export_context.c
lib/gssapi/mechglue/g_imp_name.c
lib/gssapi/mechglue/g_imp_credential.c
lib/gssapi/mechglue/g_imp_sec_context.c
lib/gssapi/mechglue/g_init_sec_context.c
lib/gssapi/mechglue/g_initialize.c
lib/gssapi/mechglue/g_inquire_context.c
lib/gssapi/mechglue/g_inquire_cred.c
lib/gssapi/mechglue/g_inquire_names.c
lib/gssapi/mechglue/g_process_context.c
lib/gssapi/mechglue/g_rel_buffer.c
lib/gssapi/mechglue/g_rel_cred.c
lib/gssapi/mechglue/g_rel_name.c
lib/gssapi/mechglue/g_rel_oid_set.c
lib/gssapi/mechglue/g_seal.c
lib/gssapi/mechglue/g_sign.c
lib/gssapi/mechglue/g_store_cred.c
lib/gssapi/mechglue/g_unseal.c
lib/gssapi/mechglue/g_userok.c
lib/gssapi/mechglue/g_utils.c
lib/gssapi/mechglue/g_verify.c
lib/gssapi/mechglue/gssd_pname_to_uid.c
lib/gssapi/mechglue/mglueP.h
lib/gssapi/mechglue/oid_ops.c
lib/gssapi/spnego/gssapiP_spnego.h
lib/gssapi/spnego/spnego Mech.c

and the initial implementation of incremental propagation, including the following new or changed files:

include/iprop_hdr.h
kadmin/server/ipropd_svc.c
lib/kdb/iprop.x
lib/kdb/kdb_convert.c
lib/kdb/kdb_log.c
lib/kdb/kdb_log.h
lib/krb5/error_tables/kdb5_err.et
kprop/kpropd_rpc.c
kprop/kproplog.c

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* /opt/cola/permits/1000740379_1646171491.53/0/opensaml-soap-impl-3-3-0-sources.jar/org/opensaml/soap/wsfed/impl/RequestedSecurityTokenImpl.java
* /opt/cola/permits/1000740379_1646171491.53/0/opensaml-soap-impl-3-3-0-sources.jar/org/opensaml/soap/wsfed/impl/package-info.java

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Version 2.1, February 1999

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DRuntime: Runtime Library for the D Programming Language
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Version 3.1, 31 March 2009

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on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

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   b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

   c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

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to attach them to the start of each source file to most effectively
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<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

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[This is the first released version of the library GPL. It is numbered 2 because it goes with version 2 of the ordinary GPL.]

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For example, if you distribute copies of the library, whether gratis or for a fee, you must give the recipients all the rights that we gave you. You must make sure that they, too, receive or can get the source code. If you link a program with the library, you must provide complete object files to the recipients so that they can relink them with the library, after making changes to the library and recompiling it. And you must show them these terms so they know their rights.

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The reason we have a separate public license for some libraries is that they blur the distinction we usually make between modifying or adding to a program and simply using it. Linking a program with a library, without changing the library, is in some sense simply using the library, and is analogous to running a utility program or application program. However, in a textual and legal sense, the linked executable is a combined work, a derivative of the original library, and the ordinary General Public License treats it as such.

Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, while the latter only works together with the library.

Note that it is possible for a library to be covered by the ordinary General Public License rather than by this special one.

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A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work
which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification").

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

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c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

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in the event an application does not supply such function or
table, the facility still operates, and performs whatever part of
its purpose remains meaningful.

(For example, a function in a library to compute square roots has
a purpose that is entirely well-defined independent of the
application. Therefore, Subsection 2d requires that any
application-supplied function or table used by this function must
be optional: if the application does not supply it, the square
root function must still compute square roots.)

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identifiable sections of that work are not derived from the Library,
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themselves, then this License, and its terms, do not apply to those
sections when you distribute them as separate works. But when you
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on the Library, the distribution of the whole must be on the terms of
this License, whose permissions for other licensees extend to the
entire whole, and thus to each and every part regardless of who wrote
it.

Thus, it is not the intent of this section to claim rights or contest
your rights to work written entirely by you; rather, the intent is to
exercise the right to control the distribution of derivative or
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In addition, mere aggregation of another work not based on the Library
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subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of
the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

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However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

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If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also compile or link a "work that uses the Library" with the Library to produce a
work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

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b) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

c) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

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For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

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Appendix: How to Apply These Terms to Your New Libraries

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To apply these terms, attach the following notices to the library. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.
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Also add information on how to contact you by electronic and paper mail.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the library, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the library `Frob' (a library for tweaking knobs) written by James Random Hacker.

<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

That's all there is to it!
/* nicstar.c v0.22  Jawaid Bazyar (bazyar@hypermall.com)
 * nicstar.c, M. Welsh (matt.welsh@cl.cam.ac.uk)
 * Hacked October, 1997 by Jawaid Bazyar, Interlink Advertising Services Inc.
 * http://www.hypermall.com/
 * 10/1/97 - commented out CFG_PHYIE bit - we don't care when the PHY
 * interrupts us (except possibly for removal/insertion of the cable?)
 * 10/4/97 - began heavy inline documentation of the code. Corrected typos
 * and spelling mistakes.
 * 10/5/97 - added code to handle PHY interrupts, disable PHY on
 * loss of link, and correctly re-enable PHY when link is
 * re-established. (put back CFG_PHYIE)
 * Modified to work with the IDT7721 nicstar -- AAL5 (tested) only.
 * R. D. Rechenmacher <ron@fnal.gov>, Aug. 6, 1997
 * Linux driver for the IDT77201 NICStAR PCI ATM controller.
* PHY component is expected to be 155 Mbps S/UNI-Lite or IDT 77155;
* see init_nicstar() for PHY initialization to change this. This driver
* expects the Linux ATM stack to support scatter-gather lists
* (skb->atm.iovcnt != 0) for Rx skb's passed to vcc->push.
*
* **Implementing minimal-copy of received data:**
* IDT always receives data into a small buffer, then large buffers
* as needed. This means that data must always be copied to create
* the linear buffer needed by most non-ATM protocol stacks (e.g. IP)
* Fix is simple: make large buffers large enough to hold entire
* SDU, and leave <small_buffer_data> bytes empty at the start. Then
* copy small buffer contents to head of large buffer.
* Trick is to avoid fragmenting Linux, due to need for a lot of large
* buffers. This is done by 2 things:
* 1) skb->destructor / skb->atm.recycle_buffer
* combined, allow nicstar_free_rx_skb to be called to
* recycle large data buffers
* 2) skb_clone of received buffers
* See nicstar_free_rx_skb and linearize_buffer for implementation
* details.
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*
* M. Welsh, 6 July 1996
*
* */

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**1.1324 bzip2 1.0.6 8.1**

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Julian Seward, jseward@acm.org
bzlib2/libbzzip2 version 1.0.8 of 13 July 2019

1.1325 fonts-dejavu 2.37-1

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1.1326 nss-util 3.53.1-1.amzn2

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1.1335 loose-envify 1.4.0

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file_io/unix/mktemp.c, strings/apr_strings.c:

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From network_io/unix/inet_ntop.c, network_io/unix/inet_ntop.c:

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From dso/aix/dso.c:

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From strings/apr_strnatcmp.c, include/apr_strings.h:

strnatcmp.c -- Perform 'natural order' comparisons of strings in C.
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From strings/apr_snprintf.c:

* cvt - IEEE floating point formatting routines.
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=head1 NAME

Carp - alternative warn and die for modules

=head1 SYNOPSIS

use Carp;

# warn user (from perspective of caller)
carp "string trimmed to 80 chars";

# die of errors (from perspective of caller)
croak "We're outta here";
# die of errors with stack backtrace
confess "not implemented";

# cluck not exported by default
use Carp qw(cluck);
cluck "This is how we got here!";

=head1 DESCRIPTION

The Carp routines are useful in your own modules because they act like die() or warn(), but with a message which is more likely to be useful to a user of your module. In the case of cluck, confess, and longmess that context is a summary of every call in the call-stack. For a shorter message you can use Carp or croak which report the error as being from where your module was called. There is no guarantee that that is where the error was, but it is a good educated guess.

You can also alter the way the output and logic of Carp works, by changing some global variables in the Carp namespace. See the section on GLOBAL VARIABLES below.

Here is a more complete description of how carp and croak work. What they do is search the call-stack for a function call stack where they have not been told that there shouldn't be an error. If every call is marked safe, they give up and give a full stack backtrace instead. In other words they presume that the first likely looking potential suspect is guilty. Their rules for telling whether a call shouldn't generate errors work as follows:

=over 4

=item 1.

Any call from a package to itself is safe.

=item 2.

Packages claim that there won't be errors on calls to or from packages explicitly marked as safe by inclusion in Carp_NOT, or (if that array is empty) ISA. The ability to override what ISA says is new in 5.8.

=item 3.

The trust in item 2 is transitive. If A trusts B, and B trusts C, then A trusts C. So if you do not override ISA with Carp_NOT, then this trust relationship is identical to,
"inherits from".

=item 4.

Any call from an internal Perl module is safe. (Nothing keeps user modules from marking themselves as internal to Perl, but this practice is discouraged.)

=item 5.

Any call to Perl's warning system (eg Carp itself) is safe. (This rule is what keeps it from reporting the error at the point where you call C<carp> or C<croak>.)

=item 6.

C<$Carp::CarpLevel> can be set to skip a fixed number of additional call levels. Using this is not recommended because it is very difficult to get it to behave correctly.

=back

=head2 Forcing a Stack Trace

As a debugging aid, you can force Carp to treat a croak as a confess and a carp as a cluck across I<all> modules. In other words, force a detailed stack trace to be given. This can be very helpful when trying to understand why, or from where, a warning or error is being generated.

This feature is enabled by 'importing' the non-existent symbol 'verbose'. You would typically enable it by saying

perl -MCarp=verbose script.pl

or by including the string C<-MCarp=verbose> in the PERL5OPT environment variable.

Alternately, you can set the global variable C<$Carp::Verbose> to true. See the C<GLOBAL VARIABLES> section below.

=head1 GLOBAL VARIABLES

=head2 $Carp::MaxEvalLen

This variable determines how many characters of a string-eval are to be shown in the output. Use a value of C<0> to show all text.

Defaults to C<0>.
This variable determines how many characters of each argument to a function to print. Use a value of C<0> to show the full length of the argument.

Defaults to C<64>.

This variable determines how many arguments to each function to show. Use a value of C<0> to show all arguments to a function call.

Defaults to C<8>.

This variable makes C<carp> and C<croak> generate stack backtraces just like C<cluck> and C<confess>. This is how C<use Carp 'verbose'> is implemented internally.

Defaults to C<0>.

This variable, I<in your package>, says which packages are I<not> to be considered as the location of an error. The C<carp()> and C<cluck()> functions will skip over callers when reporting where an error occurred.

NB: This variable must be in the package's symbol table, thus:

# These work
our @CARP_NOT; # file scope
use vars qw(@CARP_NOT); # package scope
@My::Package::CARP_NOT = ... ; # explicit package variable

# These don't work
sub xyz { ... @CARP_NOT = ... } # w/o declarations above
my @CARP_NOT; # even at top-level

Example of use:

package My::Carping::Package;
use Carp;
our @CARP_NOT;
sub bar     { .... or _error('Wrong input') }
sub _error  {
# temporary control of where'ness, __PACKAGE__ is implicit
local @CARP_NOT = qw(My::Friendly::Caller);
carp(@_
}

This would make Carp report the error as coming from a caller not in My::Carping::Package, nor from My::Friendly::Caller.

Also read the L</DESCRIPTION> section above, about how Carp decides where the error is reported from.

Use Carp::NOT, instead of Carp::CarpLevel.

Overrides Carp's use of @ISA.

=head2 %Carp::Internal

This says what packages are internal to Perl. Carp will never report an error as being from a line in a package that is internal to Perl. For example:

$Carp::Internal{ (__PACKAGE__) }++;  
# time passes...  
sub foo { ... or confess("whatever") };

would give a full stack backtrace starting from the first caller outside of __PACKAGE__. (Unless that package was also internal to Perl.)

=head2 %Carp::CarpInternal

This says which packages are internal to Perl's warning system. For generating a full stack backtrace this is the same as being internal to Perl, the stack backtrace will not start inside packages that are listed in Carp::CarpInternal. But it is slightly different for the summary message generated by carp or croak. There errors will not be reported on any lines that are calling packages in Carp::CarpInternal.

For example Carp itself is listed in Carp::CarpInternal. Therefore the full stack backtrace from confess will not start inside of Carp, and the short message from calling croak is not placed on the line where croak was called.

=head2 $Carp::CarpLevel

This variable determines how many additional call frames are to be skipped that would not otherwise be when reporting where an error
occurred on a call to one of \texttt{CÆ Carp}'s functions. It is fairly easy to count these call frames on calls that generate a full stack backtrace. However it is much harder to do this accounting for calls that generate a short message. Usually people skip too many call frames. If they are lucky they skip enough that \texttt{CÆ Carp} goes all of the way through the call stack, realizes that something is wrong, and then generates a full stack backtrace. If they are unlucky then the error is reported from somewhere misleading very high in the call stack.

Therefore it is best to avoid \texttt{CÆ Carp::CarpLevel}. Instead use \texttt{CÆ @CARP_NOT}, \texttt{CÆ %Carp::Internal} and \texttt{CÆ %Carp::CarpInternal}.

Defaults to \texttt{CÆ 0}.

\section*{BUGS}

The \texttt{Carp} routines don't handle exception objects currently. If called with a first argument that is a reference, they simply call \texttt{die}() or \texttt{warn}, as appropriate.

\section*{SEE ALSO}

\texttt{LÆ Carp::Always}, \texttt{LÆ Carp::Clan}

\section*{AUTHOR}

The \texttt{Carp} module first appeared in Larry Wall's perl 5.000 distribution. Since then it has been modified by several of the perl 5 porters. Andrew Main (Zefram) <zefram@fysh.org> divested \texttt{Carp} into an independent distribution.

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---
abstract: 'alternative warn and die for modules'
author:
- unknown
build_requires:
  ExtUtils::MakeMaker: 0
configure_requires:
  ExtUtils::MakeMaker: 0
dynamic_config: 1
generated_by: 'ExtUtils::MakeMaker version 6.6302, CPAN::Meta::Converter version 2.120921'
license: perl
meta-spec:
  url: http://module-build.sourceforge.net/META-spec-v1.4.html
  version: 1.4
name: Carp
no_index:
directory:
  - t
  - inc
requires:
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  IPC::Open3: 1.0103
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NAME

Carp - alternative warn and die for modules

DESCRIPTION

The Carp routines are useful in your own modules because they act like
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You can also alter the way the output and logic of Carp works, by changing some global variables in the Carp namespace.

**INSTALLATION**

perl Makefile.PL
make
make test
make install

**AUTHOR**

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Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.
In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see http://www.cnri.reston.va.us) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope Corporation, see http://www.zope.com). In 2001, the Python Software Foundation (PSF, see http://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of the PSF.

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.. _history-and-license:

*******************
History and License
*******************

History of the software
=======================

Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see https://www.cwi.nl/) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see https://www.cnri.reston.va.us/) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope Corporation; see http://www.zope.com/). In 2001, the Python Software Foundation (PSF, see https://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of the PSF.

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+----------------+--------------+-----------+------------+-----------------+
| Release        | Derived from | Year      | Owner      | GPL compatible? |
+================+==============+===========+============+=================+
| 0.9.0 thru 1.2 | n/a          | 1991-1995 | CWI        | yes             |
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Mersenne Twister

-------------

The :mod:`_random` module includes code based on a download from
http://www.math.sci.hiroshima-u.ac.jp/~m-mat/MT/MT2002/emt19937ar.html. The following are
the verbatim comments from the original code:::

   A C-program for MT19937, with initialization improved 2002/1/26.
   Coded by Takuji Nishimura and Makoto Matsumoto.
Before using, initialize the state by using init_genrand(seed) or init_by_array(init_key, key_length).

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http://www.math.sci.hiroshima-u.ac.jp/~m-mat/MT/emt.html
email: m-mat @ math.sci.hiroshima-u.ac.jp (remove space)

Sockets
-------

The `module` `socket` module uses the functions, `func` `getaddrinfo`, and `func` `getnameinfo`, which are coded in separate source files from the WIDE Project, http://www.wide.ad.jp/.

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MD5 message digest algorithm

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L. Peter Deutsch
ghost@aladdin.com

Independent implementation of MD5 (RFC 1321).

This code implements the MD5 Algorithm defined in RFC 1321, whose
text is available at
  http://www.ietf.org/rfc/rfc1321.txt
The code is derived from the text of the RFC, including the test suite
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The original and principal author of md5.h is L. Peter Deutsch
<ghost@aladdin.com>. Other authors are noted in the change history
that follows (in reverse chronological order):

2002-04-13 lpd Removed support for non-ANSI compilers; removed
  references to Ghostscript; clarified derivation from RFC 1321;
  now handles byte order either statically or dynamically.
1999-11-04 lpd Edited comments slightly for automatic TOC extraction.
1999-10-18 lpd Fixed typo in header comment (ansi2knr rather than md5);
  added conditionalization for C++ compilation from Martin
  Purschke <purschke@bnl.gov>.
1999-05-03 lpd Original version.

Asynchronous socket services
----------------------------

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Modified by Jack Jansen, CWI, July 1995:
- Use binascii module to do the actual line-by-line conversion between ascii and binary. This results in a 1000-fold speedup. The C version is still 5 times faster, though.
- Arguments more compliant with Python standard

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-------------------------------

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---------------

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clarify this fact.

* configure.ac, Makefile.am: The original versions were derived from the
ones in the XML Catalog Manager project, version 2.2.

Author: Julio Merino <jmmv@users.sourceforge.net>

* atf-c/ui.c: The format_paragraph and format_text functions were
derived form the ones in the Monotone project, revision
3a0982da308228d796df35f98d787c5cffe2bb5b6.

Author: Julio Merino <jmmv@NetBSD.org>

* atf-c++/detail/io.hpp, atf-c++/detail/io.cpp, atf-c++/detail/io_test.cpp:
These files were derived from the file_handle, systembuf, pipe and piostream
classes and tests found in the Boost.Process library.

Author: Julio Merino <jmmv84@gmail.com>

* admin/check-style.sh, admin/check-style-common.awk,
admin/check-style-cpp.awk, admin/check-style-shell.awk: These files,
except the first one, were first implemented in the Buildtool project.
They were later adapted to be part of Boost.Process and, during that
process, the shell script was created.

Author: Julio Merino <jmmv84@gmail.com>

vim: filetype=text:textwidth=75:expandtab:shiftwidth=2:softtabstop=2
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-->

<!-- $Id$ -->

<!-- Generate ISC copyright comments from Docbook copyright metadata. -->

<xsl:stylesheet version="1.0"
  xmlns:xsl="http://www.w3.org/1999/XSL/Transform"
  xmlns:xi="http://www.w3.org/2001/XInclude"
  xmlns:db="http://docbook.org/ns/docbook">
  <xsl:template name="isc.copyright.format">
    <xsl:param name="text"/>
    <xsl:value-of select="$isc.copyright.leader"/>
    <xsl:value-of select="normalize-space(substring-before($text, '&#10;'))"/>
    <xsl:text>&#10;</xsl:text>
    <xsl:variable name="rest" select="substring-after($text, '&#10;')"/>
    <xsl:if test="translate($rest, '&#9;&#32;', '')">
      <xsl:call-template name="isc.copyright.format">
        <xsl:with-param name="text" select="$rest"/>
      </xsl:call-template>
    </xsl:if>
  </xsl:template>

  <xsl:variable name="isc.copyright.text">
    <xsl:text>This Source Code Form is subject to the terms of the Mozilla Public License, v. 2.0. If a copy of the MPL was not distributed with this file, You can obtain one at http://mozilla.org/MPL/2.0/.</xsl:text>
  </xsl:variable>

  <xsl:call-template name="isc.copyright.format">
    <xsl:with-param name="text" select="$isc.copyright.text"/>
  </xsl:call-template>

  <xsl:variable name="isc.copyright" />
</xsl:stylesheet>
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### 1.1356 kmod 26-2

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DNS resolver (dirmngr/dns.c)

dns.c - Recursive, Reentrant DNS Resolver.

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A. HISTORY OF THE SOFTWARE

Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see http://www.cnri.reston.va.us) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations, which became Zope Corporation. In 2001, the Python Software Foundation (PSF, see https://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation was a sponsoring member of the PSF.

All Python releases are Open Source (see http://www.opensource.org for the Open Source Definition). Historically, most, but not all, Python releases have also been GPL-compatible; the table below summarizes the various releases.

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1.1367 metrics-jetty 4.0.0

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Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see http://www.cnri.reston.va.us) in Reston, Virginia where he released several versions of the
In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope Corporation, see http://www.zope.com). In 2001, the Python Software Foundation (PSF, see http://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of the PSF.

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Mersenne Twister

The `_random’ module includes code based on a download from
http://www.math.keio.ac.jp/~matumoto/MT2002/emt19937ar.html. The following are the verbatim comments from the original code:

A C-program for MT19937, with initialization improved 2002/1/26. Coded by Takuji Nishimura and Makoto Matsumoto.

Before using, initialize the state by using init_genrand(seed) or init_by_array(init_key, key_length).

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Any feedback is very welcome.
http://www.math.keio.ac.jp/matumoto/emt.html
email: matumoto@math.keio.ac.jp

Sockets
-------

The `socket' module uses the functions, `getaddrinfo', and
'getnameinfo', which are coded in separate source files from the WIDE Project, 'http://www.wide.ad.jp/about/index.html'.

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Modified by Jack Jansen, CWI, July 1995:
- Use binascii module to do the actual line-by-line conversion
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- Arguments more compliant with python standard

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In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see https://www.cnri.reston.va.us/) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope Corporation; see http://www.zope.com/). In 2001, the Python Software Foundation (PSF, see https://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of the PSF.

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+----------------+--------------+------------+--------------+-----------------+
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Mersenne Twister

The :mod:`random` module includes code based on a download from
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A C-program for MT19937, with initialization improved 2002/1/26.
Coded by Takuji Nishimura and Makoto Matsumoto.

Before using, initialize the state by using init_genrand(seed)
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Any feedback is very welcome.
http://www.math.sci.hiroshima-u.ac.jp/~m-mat/MT/emt.html
email: m-mat @ math.sci.hiroshima-u.ac.jp (remove space)

Sockets
------

The `:mod:` `socket` `module` uses the functions, `:func:` `getaddrinfo`, and `:func:` `getnameinfo`, which are coded in separate source files from the WIDE Project, http://www.wide.ad.jp/, ::

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Modified by Jack Jansen, CWI, July 1995:
- Use binascii module to do the actual line-by-line conversion
  between ascii and binary. This results in a 1000-fold speedup. The C
  version is still 5 times faster, though.
- Arguments more compliant with Python standard

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-----------------------------

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---------

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Original location:
https://github.com/majek/csiphash/

Solution inspired by code from:
Samuel Neves (supercop/crypto_auth/siphash24/little)
djb (supercop/crypto_auth/siphash24/little2)
Jean-Philippe Aumasson (https://131002.net/siphash/siphash24.c)

strtof and dtoa
---------------

The file :file:`Python/dtoa.c`, which supplies C functions dtoa and
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libffi

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zlib

----

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cfuhash
-------

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libmpdec
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Python was created in the early 1990s by Guido van Rossum at Stichting
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principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for
National Research Initiatives (CNRI, see http://www.cnri.reston.va.us)
in Reston, Virginia where he released several versions of the
software.

In May 2000, Guido and the Python core development team moved to
BeOpen.com to form the BeOpen PythonLabs team. In October of the same
year, the PythonLabs team moved to Digital Creations (now Zope
Corporation, see http://www.zope.com). In 2001, the Python Software
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1.1376 diffutils 2.16

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<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

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1.1380 python-debian 0.1.32
1.1380.1 Available under license:

#!/usr/bin/python

# vim: fileencoding=utf-8
#
# Copyright (C) 2014 Google, Inc.
#
# This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License
Check the format and dumpability of debian/copyright filenames on stdin.

Usage:

    find /tmp/packages -type f -name copyright | ./check_parse_and_dump.py

The --suppress_warnings and --summary flags can be used to make the program output less verbose.

```python
import argparse
import codecs
import io
import sys
import warnings
from debian import copyright

def parse_args:
    parser = argparse.ArgumentParser()
    parser.add_argument('--summary', action='store_true',
                       help='Whether to print only a summary')
    parser.add_argument('--suppress_warnings', action='store_true',
                       help='Whether to suppress copyright warnings')
    return parser.parse_args()

def main():
    args = parse_args()

    if args.suppress_warnings:
        warnings.filterwarnings('ignore', module='debian.copyright')

    problems = []
    parse_failures = []
dump_failures = []

total = 0
for filename in sys.stdin:
    total += 1
    filename = filename.rstrip()
    with io.open(filename, mode='rt', encoding='utf-8') as f:
        try:
            c = copyright.Copyright(f)
        except Exception as e:
            problems.setdefault((1, 'Parse failures'), []).append((filename, e))
            continue

        try:
            c.dump()
        except Exception as e:
            problems.setdefault((2, 'Dump failures'), []).append((filename, e))

        if not c.header.known_format():
            problems.setdefault((3, 'Unknown format'), []).append((filename, c.header.format))

        invalid_globs = []
        globs_with_leading_dot_slash = []
        globs_with_trailing_comma = []
        globs_with_double_star = []
        for p in c.all_files_paragraphs():
            try:
                p.files_pattern()
            except Exception as e:
                invalid_globs.append(e)
            for glob in p.files:
                if glob.startswith('./'):
                    globs_with_leading_dot_slash.append(glob)
                if glob.endswith(',
                if '**' in glob:
                    globs_with_double_star.append(glob)

            if invalid_globs:
                problems.setdefault((4, 'Invalid glob'), []).append((filename, invalid_globs))
            if globs_with_leading_dot_slash:
                problems.setdefault((5, 'Globs with leading ./'), []).append((filename, globs_with_leading_dot_slash))
            if globs_with_trailing_comma:
problems.setdefault((6, 'Globs with trailing '), []).append((filename, globs_with_trailing_comma))
if globs_with_double_star:
    problems.setdefault((7, 'Globs with **'), []).append((filename, globs_with_double_star))

f = codecs.getwriter(encoding='utf-8')(sys.stdout)
for (_, heading), problems in sorted(problems.items()):
    f.write(\n'\n%s: (%d / %d)
' % (heading, len(problems), total))
    if not args.summary:
        for filename, problem in problems:
            f.write(\n' %s: %s
' % (filename, problem))

if __name__ == '__main__':
    main()  
# vim: fileencoding=utf-8
#
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***Utilities for parsing and creating machine-readable debian/copyright files.

The specification for the format (also known as DEP5) is available here:
https://www.debian.org/doc/packaging-manuals/copyright-format/1.0/

Start from the Coyrigt docstring for usage information.
***

from __future__ import unicode_literals
import collections
import itertools
import io
import re
import warnings

from debian import deb822

_CURRENT_FORMAT = (  
'http://www.debian.org/doc/packaging-manuals/copyright-format/1.0/')

_KNOWN_FORMATS = frozenset([  
_CURRENT_FORMAT,

# TODO(jsw): Transparently rewrite https:// as http://, at least for this?  
'https://www.debian.org/doc/packaging-manuals/copyright-format/1.0/',
])

class Error(Exception):
    """Base class for exceptions in this module."""

class NotMachineReadableError(Error):
    """Raised when the input is not a machine-readable debian/copyright file."""

class Copyright(object):
    """Represents a debian/copyright file.

    A Copyright object contains a Header paragraph and a list of additional
    Files or License paragraphs. It provides methods to iterate over those
    paragraphs, in addition to adding new ones. It also provides a mechanism
    for finding the Files paragraph (if any) that matches a particular
    filename.

    Typical usage:

    with io.open('debian/copyright', 'rt', encoding='utf-8') as f:
        c = copyright.Copyright(f)

        header = c.header
        # Header exposes standard fields, e.g.
        print('Upstream name: ', header.upstream_name)
        lic = header.license
        if lic:
            print('Overall license: ', lic.synopsis)
        # You can also retrieve and set custom fields.
        header['My-Special-Field'] = 'Very special'

        # Find the license for a given file.
        paragraph = c.find_files_paragraph('debian/rules')"""
if paragraph:
    print('License for debian/rules: ', paragraph.license)

# Dump the result, including changes, to another file.
with io.open('debian/copyright.new', 'wt', encoding='utf-8') as f:
    c.dump(f=f)

It is possible to build up a Copyright from scratch, by modifying the
header and using add_files_paragraph and add_license_paragraph. See the
associated method docstrings.

```python

def __init__(self, sequence=None, encoding='utf-8'):
    """Initializer.

    :param sequence: Sequence of lines, e.g. a list of strings or a
        file-like object. If not specified, a blank Copyright object is
        initialized.
    :param encoding: Encoding to use, in case input is raw byte strings.
        It is recommended to use unicode objects everywhere instead, e.g.
        by opening files in text mode.

    Raises:
        NotMachineReadableError if `sequence` does not contain a
        machine-readable debian/copyright file.
    """
    super(Copyright, self).__init__()

    self.__paragraphs = []

    if sequence is not None:
        paragraphs = list(deb822.Deb822.iter_paragraphs(
            sequence=sequence, encoding=encoding))
        if not paragraphs:
            raise NotMachineReadableError('no paragraphs in input')
        self.__header = Header(paragraphs[0])
        for i in range(1, len(paragraphs)):
            p = paragraphs[i]
            if 'Files' in p:
                p = FilesParagraph(p)
            elif 'License' in p:
                p = LicenseParagraph(p)
            else:
                warnings.warn('Non-header paragraph has neither "Files"
                    nor "License" fields')
                self.__paragraphs.append(p)
        else:
            self.__header = Header()
```
@property
def header(self):
    """The file header paragraph."""
    return self.__header

@header.setter
def header(self, hdr):
    if not isinstance(hdr, Header):
        raise TypeError('value must be a Header object')
    self.__header = hdr

def all_paragraphs(self):
    """Returns an iterator over all paragraphs (header, Files, License).

    The header (returned first) will be returned as a Header object; file
    paragraphs as FilesParagraph objects; license paragraphs as
    LicenseParagraph objects.
    """
    return itertools.chain([self.header], (p for p in self.__paragraphs))

def __iter__(self):
    """Iterate over all paragraphs

    see all_paragraphs() for more information
    """
    return self.all_paragraphs()

def all_files_paragraphs(self):
    """Returns an iterator over the contained FilesParagraph objects."""
    return (p for p in self.__paragraphs if isinstance(p, FilesParagraph))

def find_files_paragraph(self, filename):
    """Returns the FilesParagraph for the given filename.

    In accordance with the spec, this method returns the last
    FilesParagraph that matches the filename. If no paragraphs
    matched, returns None.
    """
    result = None
    for p in self.all_files_paragraphs():
        if p.matches(filename):
            result = p
    return result

def add_files_paragraph(self, paragraph):
    """Adds a FilesParagraph to this object.
The paragraph is inserted directly after the last FilesParagraph (which might be before a standalone LicenseParagraph).

```python
if not isinstance(paragraph, FilesParagraph):
    raise TypeError('paragraph must be a FilesParagraph instance')
```

```python
last_i = -1
for i, p in enumerate(self.__paragraphs):
    if isinstance(p, FilesParagraph):
        last_i = i
self.__paragraphs.insert(last_i + 1, paragraph)
```

def all_license_paragraphs(self):
    """Returns an iterator over standalone LicenseParagraph objects. ""
    return (p for p in self.__paragraphs if isinstance(p, LicenseParagraph))

def add_license_paragraph(self, paragraph):
    """Adds a LicenceParagraph to this object.

    The paragraph is inserted after any other paragraphs.
    ""
    if not isinstance(paragraph, LicenseParagraph):
        raise TypeError('paragraph must be a LicenseParagraph instance')
    self.__paragraphs.append(paragraph)

def dump(self, f=None):
    """Dumps the contents of the copyright file.

    If f is None, returns a unicode object. Otherwise, writes the contents to f, which must be a file-like object that is opened in text mode (i.e. that accepts unicode objects directly). It is thus up to the caller to arrange for the file to do any appropriate encoding.
    ""
    return_string = False
    if f is None:
        return_string = True
        f = io.StringIO()
    self.header.dump(f, text_mode=True)
    for p in self.__paragraphs:
        f.write('
')
        p.dump(f, text_mode=True)
    if return_string:
        return f.getvalue()
```

def _single_line(s):
    """Returns s if it is a single line; otherwise raises ValueError.""

if 'n' in s:
    raise ValueError('must be single line')
return s

class _LineBased(object):
    """Namespace for conversion methods for line-based lists as tuples."""
    # TODO(jsw): Expose this somewhere else? It may have more general utility.

    @staticmethod
def from_str(s):
        """Returns the lines in 's', with whitespace stripped, as a tuple."""
        return tuple((line.strip() for line in (s or '').strip().splitlines())
                       if v)

    @staticmethod
def to_str(seq):
        """Returns the sequence as a string with each element on its own line.
If 'seq' has one element, the result will be on a single line.
Otherwise, the first line will be blank.
""
        l = list(seq)
        if not l:
            return None
        def process_and_validate(s):
            s = s.strip()
            if not s:
                raise ValueError('values must not be empty')
            if 'n' in s:
                raise ValueError('values must not contain newlines')
            return s

            if len(l) == 1:
                return process_and_validate(l[0])

            tmp = ['
            for s in l:
                tmp.append(' ' + process_and_validate(s))
            return '\n'.join(tmp)

    class _SpaceSeparated(object):
        """Namespace for conversion methods for space-separated lists as tuples."""
        # TODO(jsw): Expose this somewhere else? It may have more general utility.

        def from_str(s):
            s = s.strip()
            if not s:
                raise ValueError('values must not be empty')
            if 'n' in s:
                raise ValueError('values must not contain newlines')
            return s

            if len(l) == 1:
                return process_and_validate(l[0])

            tmp = ['
            for s in l:
                tmp.append(' ' + process_and_validate(s))
            return '\n'.join(tmp)
```python
_has_space = re.compile(r'\s')

@staticmethod
def from_str(s):
    """Returns the values in s as a tuple (empty if only whitespace)."""
    return tuple(v for v in (s or '').split() if v)

@classmethod
def to_str(cls, seq):
    """Returns the sequence as a space-separated string (None if empty)."""
    l = list(seq)
    if not l:
        return None
    tmp = []
    for s in l:
        if cls._has_space.search(s):
            raise ValueError('values must not contain whitespace')
        s = s.strip()
        if not s:
            raise ValueError('values must not be empty')
        tmp.append(s)
    return ' '.join(tmp)

# TODO(jsw): Move multiline formatting/parsing elsewhere?

def format_multiline(s):
    """Formats multiline text for insertion in a Deb822 field.

    Each line except for the first one is prefixed with a single space. Lines
    that are blank or only whitespace are replaced with '.'
    """
    if s is None:
        return None
    return format_multiline_lines(s.splitlines())

def format_multiline_lines(lines):
    """Same as format_multiline, but taking input pre-split into lines."""
    out_lines = []
    for i, line in enumerate(lines):
        if i != 0:
            if not line.strip():
                line = '
            line = ' ' + line
        out_lines.append(line)
    return 'n'.join(out_lines)
```
def parse_multiline(s):
    """Inverse of format_multiline.

    Technically it can't be a perfect inverse, since format_multiline must
    replace all-whitespace lines with ' .'. Specifically, this function:
    - Does nothing to the first line
    - Removes first character (which must be ' ') from each proceeding line.
    - Replaces any line that is ' .' with an empty line.
    ""
    if s is None:
        return None
    return \n'.join(parse_multiline_as_lines(s))

def parse_multiline_as_lines(s):
    """Same as parse_multiline, but returns a list of lines.

    (This is the inverse of format_multiline_lines.)
    ""
    lines = s.splitlines()
    for i, line in enumerate(lines):
        if i == 0:
            continue
        if line.startswith(' '):
            line = line[1:]
        else:
            raise ValueError('continued line must begin with " "')
        if line == '.':
            line = ''
        lines[i] = line
    return lines

class License(collections.namedtuple('License', 'synopsis text')):
    """Represents the contents of a License field. Immutable.""

    def __new__(cls, synopsis, text=' '):
        """Creates a new License object.

        :param synopsis: The short name of the license, or an expression giving
            alternatives. (The first line of a License field.)
        :param text: The full text of the license, if any (may be None). The
            lines should not be mangled for "deb822"-style wrapping - i.e. they
            should not have whitespace prefixes or single '.' for empty lines.
        ""
        return super(License, cls).__new__(cls, synopsis=_single_line(synopsis),
            text=(text or ''))
@classmethod
def from_str(cls, s):
    if s is None:
        return None

    lines = parse_multiline_as_lines(s)
    if not lines:
        return cls('')
    return cls(lines[0], text='\n'.join(itertools.islice(lines, 1, None)))

def to_str(self):
    return format_multiline_lines([self.synopsis] + self.text.splitlines())

# TODO(jsw): Parse the synopsis?
# TODO(jsw): Provide methods to look up license text for known licenses?

def globs_to_re(globs):
    r'''Returns an re object for the given globs.

    Only * and ? wildcards are supported. Literal * and ? may be matched via
    \* and \?, respectively. A literal backslash is matched \. Any other
    character after a backslash is forbidden.

    Empty globs match nothing.

    Raises ValueError if any of the globs is illegal.
    '''
    buf = io.StringIO()
    for i, glob in enumerate(globs):
        if i != 0:
            buf.write('|')
        i = 0
        n = len(glob)
        while i < n:
            c = glob[i]
            i += 1
            if c == '*':
                buf.write('.*')
            elif c == '?':
                buf.write('.')
            elif c == '\':
                if i < n:
                    c = glob[i]
                    i += 1
                else:
                    raise ValueError('single backslash not allowed at end')
if c in r'\?*':
    buf.write(re.escape(c))
else:
    raise ValueError(r'invalid escape sequence: %s' % c)
else:
    buf.write(re.escape(c))

# Patterns must be anchored at the end of the string. (We use \Z instead
# of $ so that this works correctly for filenames including \n.)
buf.write(r'\Z')
return re.compile(buf.getvalue(), re.MULTILINE | re.DOTALL)

class FilesParagraph(deb822.RestrictedWrapper):
    """Represents a Files paragraph of a debian/copyright file.

This kind of paragraph is used to specify the copyright and license for a
particular set of files in the package.
"""

def __init__(self, data, _internal_validate=True):
    super(FilesParagraph, self).__init__(data)

    if _internal_validate:
        if 'Files' not in data:
            raise ValueError("Files" field required')
        # For the other "required" fields, we just warn for now. Perhaps
        # these should be upgraded to exceptions (potentially protected by
        # a "strict" param).
        if 'Copyright' not in data:
            warnings.warn('Files paragraph missing Copyright field')
        if 'License' not in data:
            warnings.warn('Files paragraph missing License field')

    if not self.files:
        warnings.warn('Files paragraph has empty Files field')

    self._cached_files_pat = (None, None)

@classmethod
def create(cls, files, copyright, license):
    """Create a new FilesParagraph from its required parts.

:param files: The list of file globs.
:param copyright: The copyright for the files (free-form text).
:param license: The Licence for the files.
"""
    p = cls(deb822.Deb822(), _internal_validate=False)
p.files = files
p.copyright = copyright
p.license = license
return p

def files_pattern(self):
    """Returns a regular expression equivalent to the Files globs.

    Caches the result until files is set to a different value.

    Raises ValueError if any of the globs are invalid.
    ""
    files_str = self['files']
    if self.__cached_files_pat[0] != files_str:
        self.__cached_files_pat = (files_str, globs_to_re(self.files))
    return self.__cached_files_pat[1]

def matches(self, filename):
    """Returns True iff filename is matched by a glob in Files.""
    pat = self.files_pattern()
    return pat.match(filename) is not None

files = deb822.RestrictedField('Files', from_str=_SpaceSeparated.from_str,
                              to_str=_SpaceSeparated.to_str, allow_none=False)
copyright = deb822.RestrictedField('Copyright', allow_none=False)

license = deb822.RestrictedField('License', from_str=License.from_str, to_str=License.to_str,
                               allow_none=False)

column = deb822.RestrictedField('Comment')

class LicenseParagraph(deb822.RestrictedWrapper):
    """Represents a standalone license paragraph of a debian/copyright file.

    Minimally, this kind of paragraph requires a 'License' field and has no
    'Files' field. It is used to give a short name to a license text, which
    can be referred to from the header or files paragraphs.
    ""
    
def __init__(self, data, _internal_validate=True):
        super(LicenseParagraph, self).__init__(data)
        if _internal_validate:
            if 'License' not in data:
                raise ValueError("License" field required)
if 'Files' in data:
    raise ValueError('input appears to be a Files paragraph')

@classmethod
def create(cls, license):
    
    """Returns a LicenseParagraph with the given license."""
    if not isinstance(license, License):
        raise TypeError('license must be a License instance')
    paragraph = cls(deb822.Deb822(), _internal_validate=False)
    paragraph.license = license
    return paragraph

# TODO(jsw): Validate that the synopsis of the license is a short name or
# short name with exceptions (not an alternatives expression). This
# requires help from the License class.
license = deb822.RestrictedField(
    'License', from_str=License.from_str, to_str=License.to_str,
    allow_none=False)

comment = deb822.RestrictedField('Comment')

# Hide 'Files'.
__files = deb822.RestrictedField('Files')

class Header(deb822.RestrictedWrapper):
    """Represents the header paragraph of a debian/copyright file.

    Property values are all immutable, such that in order to modify them you
    must explicitly set them (rather than modifying a returned reference).
    """

def __init__(self, data=None):
    """Initializer.

    :param parsed: A deb822.Deb822 object for underlying data. If None, a
    new one will be created.
    """
    if data is None:
        data = deb822.Deb822()
        data['Format'] = _CURRENT_FORMAT

    if 'Format-Specification' in data:
        warnings.warn('use of deprecated "Format-Specification" field;
            rewriting as "Format"')
        data['Format'] = data['Format-Specification']
        del data['Format-Specification']
super(Header, self).__init__(data)

fmt = self.format
if fmt is None:
    raise NotMachineReadableError('input is not a machine-readable debian/copyright')
if fmt not in _KNOWN_FORMATS:
    warnings.warn('format not known: %r' % fmt)

def known_format(self):
    """Returns True iff the format is known."""
    return self.format in _KNOWN_FORMATS

def current_format(self):
    """Returns True iff the format is the current format."""
    return self.format == _CURRENT_FORMAT

format = deb822.RestrictedField(
    'Format', to_str=_single_line, allow_none=False)

upstream_name = deb822.RestrictedField(
    'Upstream-Name', to_str=_single_line)

upstream_contact = deb822.RestrictedField(
    'Upstream-Contact', from_str=_LineBased.from_str,
    to_str=_LineBased.to_str)

source = deb822.RestrictedField('Source')

disclaimer = deb822.RestrictedField('Disclaimer')

comment = deb822.RestrictedField('Comment')

license = deb822.RestrictedField(
    'License', from_str=License.from_str, to_str=License.to_str)

copyright = deb822.RestrictedField('Copyright')

Format: http://www.debian.org/doc/packaging-manuals/copyright-format/1.0/
Upstream-Name: python-debian
Upstream-Contact: pkg-python-debian-maint@lists.alioth.debian.org
Source: http://anonscm.debian.org/cgit/pkg-python-debian/python-debian.git

Files: *
Copyright: Debian python-debian Maintainers (see debian/control for maintainer names)
License: GPL-2+

Files: lib/deb822.py lib/debian/deb822.py lib/debian/tests/test_deb822.py
Copyright: Copyright (C) 2005-2006 dann frazier <dannf@dannf.org>
License: GPL-2+

Files:
examples/copyright/*
lib/debian/copyright.py
lib/debian/tests/test_copyright.py
Copyright: Copyright (C) 2014 Google, Inc.
License: GPL-2+

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1.1381 ding-libs 1.3.1-29.amzn2
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1.1382 zlib 1.2.3
1.1382.1 Available under license :
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1.1384 e2fsprogs 2.1-1.43.4-2+deb9u1
1.1384.1 Available under license:

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Index: tdbsa/tdb.c

--- tdbsa.orig/tdb.c
+++ tdbsa/tdb.c
@@ -4,11 +4,11 @@
Last Changed Date: 2007-06-06 20:14:06 -0400 (Wed, 06 Jun 2007)
*/
/*
- Unix SMB/CIFS implementation.
+ trivial database library - standalone version

- trivial database library - private includes
- *
- Copyright (C) Andrew Tridgell 2005
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Theodore Ts'o
23-June-2007
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The reason we have a separate public license for some libraries is that they blur the distinction we usually make between modifying or adding to a program and simply using it. Linking a program with a library, without changing the library, is in some sense simply using the library, and is analogous to running a utility program or application program. However, in a textual and legal sense, the linked executable is a combined work, a derivative of the original library, and the ordinary General Public License treats it as such.

Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free
libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, while the latter only works together with the library.

Note that it is possible for a library to be covered by the ordinary General Public License rather than by this special one.

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"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

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4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

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If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

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executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

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d) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

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<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

That's all there is to it!
This package was added to the e2fsprogs debian source package by Theodore Ts'o <tytso@mit.edu> on Sat Mar 15 15:33:37 EST 2003

It is part of the main e2fsprogs distribution, which can be found at:

http://sourceforge.net/projects/e2fsprogs

Upstream Author: Theodore Ts'o <tytso@mit.edu>

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This is the Debian GNU/Linux prepackaged version of the ss command-line interface parsing library. It is currently distributed together with the EXT2 file system utilities, which are otherwise packaged as "e2fsprogs".

This package was put together by Yann Dirson <dirson@debian.org>, from sources obtained from a mirror of:
tsx-11.mit.edu:/pub/linux/packages/ext2fs/

From the original distribution:

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# This is a Makefile stub which handles the creation of BSD shared libraries.

# In order to use this stub, the following makefile variables must be defined.

#
# BSDLIB_VERSION = 1.0
# BSDLIB_IMAGE = libce
# BSDLIB_MYDIR = et
# BSDLIB_INSTALL_DIR = $(SHLIBDIR)
#

all:: image

real-subdirs:: Makefile
@echo "MKDIR pic"
@mkdir -p pic

BSD_LIB = $(BSDLIB_IMAGE).so.$(BSDLIB_VERSION)
BSDLIB_pic_FLAG = -fpic

image:$(BSD_LIB)
$(BSD_LIB): $(OBJ) $(OBJS)
(cd pic; ld -Bshareable -o $(BSD_LIB) $(LDFLAGS_SHLIB) $(OBJ))
$(MV) pic/$(BSD_LIB) .
$(RM) -f ../$(BSD_LIB)
(cd ..; $(LN) $(LINK_BUILD_FLAGS) \`echo $(my_dir) | sed -e 's;lib/;;'"/$(BSD_LIB) $(BSD_LIB))

install-shlibs install:: $(BSD_LIB)
@echo "INSTALL_PROGRAM $(BSDLIB_INSTALL_DIR)/$(BSD_LIB)"
@$(INSTALL_PROGRAM) $(BSD_LIB) \$(DESTDIR)$(BSDLIB_INSTALL_DIR)/$(BSD_LIB)
@-$(LDCONFIG)

install-strip: install

install-shlibs-strip: install-shlibs

uninstall-shlibs uninstall::
$(RM) -f $(DESTDIR)$(BSDLIB_INSTALL_DIR)/$(BSD_LIB)

clean::
$(RM) -rf pic
$(RM) -f $(BSD_LIB)
$(RM) -f ../../$(BSD_LIB)
This is the Debian GNU/Linux prepackaged version of the Common Error Description library. It is currently distributed together with the EXT2 file system utilities, which are otherwise packaged as "e2fsprogs".

This package was put together by Yann Dirson <dirson@debian.org>, from sources obtained from a mirror of:
tsx-11.mit.edu:/pub/linux/packages/ext2fs/

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Gadi Oxman, August 1995

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<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

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1.1385 ncurses 5.9
1.1385.1 Available under license:
Upstream source http://invisible-island.net/ncurses/ncurses-examples.html

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Calling this script install-sh is preferred over install.sh, to prevent `make' implicit rules from creating a file called install from it when there is no Makefile.

This script is compatible with the BSD install script, but was written from scratch. It can only install one file at a time, a restriction shared with many OS's install programs.

On Debian systems, the complete text of the GNU General Public License can be found in `/usr/share/common-licenses/GPL-2'

1.1386 atk 2.22.0-1
1.1386.1 Available under license:

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1.1389 opensaml-storage-api 3.3.0

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* /opt/cola/permits/1000740485_1646171533.33/0/opensaml-storage-api-3-3-0-sources-jar/org/opensaml/storage/VersionMismatchException.java
* /opt/cola/permits/1000740485_1646171533.33/0/opensaml-storage-api-3-3-0-sources-jar/org/opensaml/storage/ReplayCache.java
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jar/org/opensaml/storage/annotation/Context.java
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jar/org/opensaml/storage/AbstractStorageService.java

1.1390 flexmark-ext-ins 0.40.32

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1.1391 e2fsprogs 1.43.4-2+deb9u2
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#
# In order to use this stub, the following makefile variables must be defined.
#
# BSDLIB_VERSION = 1.0
# BSDLIB_IMAGE = libce
# BSDLIB_MYDIR = et
# BSDLIB_INSTALL_DIR = $(SHLIBDIR)
#
all:: image

real-subdirs:: Makefile
@echo "MKDIR pic"
@mkdir -p pic

BSD_LIB = $(BSDLIB_IMAGE).so.$(BSDLIB_VERSION)
BSDLIB_PIC_FLAG = -fpic
image:$(BSD_LIB)
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===================================================================
--- tdbsa.orig/tdb.c
+++ tdbsa/tdb.c
@@ -4,11 +4,11 @@
 Last Changed Date: 2007-06-06 20:14:06 -0400 (Wed, 06 Jun 2007)
 */
 /*
- Unix SMB/CIFS implementation.
+ trivial database library - standalone version
trivial database library - private includes

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Theodore Ts'o
23-June-2007

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Because of this blurred distinction, using the ordinary General
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That's all there is to it!
This package was added to the e2fsprogs debian source package by
Theodore Ts'o <tytso@mit.edu> on Sat Mar 15 15:33:37 EST 2003

It is part of the main e2fsprogs distribution, which can be found at:

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Upstream Author: Theodore Ts'o <tytso@mit.edu>

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This is the Debian GNU/Linux prepackaged version of the ss
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This package was put together by Yann Dirson <dirson@debian.org>,
from sources obtained from a mirror of:
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Gadi Oxman, August 1995

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1.1392 aws-sdk-go 1.37.17

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1.1393 libdaemon 0.14-7.amzn2.0.2
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### 1.1396 libconfig 1.4.9-5.amzn2.0.2

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**Version 2.1, February 1999**

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"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

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d) If a facility in the modified Library refers to a function or a
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in the event an application does not supply such function or
table, the facility still operates, and performs whatever part of
its purpose remains meaningful.

(For example, a function in a library to compute square roots has
a purpose that is entirely well-defined independent of the
application. Therefore, Subsection 2d requires that any
application-supplied function or table used by this function must
be optional: if the application does not supply it, the square
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under the terms of Sections 1 and 2 above provided that you accompany
it with the complete corresponding machine-readable source code, which
must be distributed under the terms of Sections 1 and 2 above on a
medium customarily used for software interchange.

If distribution of object code is made by offering access to copy
from a designated place, then offering equivalent access to copy the
source code from the same place satisfies the requirement to
distribute the source code, even though third parties are not
compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the
Library, but is designed to work with the Library by being compiled or
linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

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If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

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with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

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7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise
permitted, and provided that you do these two things:

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- If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)
These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium
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If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

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Go support for Protocol Buffers - Google's data interchange format

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#
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This is an attempt to acknowledge early contributions to the garbage collector. Later contributions should instead be mentioned in README.changes.

HISTORY -

Early versions of this collector were developed as a part of research.
projects supported in part by the National Science Foundation
and the Defense Advance Research Projects Agency.

The garbage collector originated as part of the run-time system for
the Russell programming language implementation. The first version of the
garbage collector was written primarily by Al Demers. It was then refined
and mostly rewritten, primarily by Hans-J. Boehm, at Cornell U.,
the University of Washington, Rice University (where it was first used for
C and assembly code), Xerox PARC, SGI, and HP Labs. However, significant
contributions have also been made by many others.

Some other contributors:

More recent contributors are mentioned in the modification history in
README.changes. My apologies for any omissions.

The SPARC specific code was originally contributed by Mark Weiser.
The Encore Multimax modifications were supplied by
Kevin Kenny (kenny@m.cs.uiuc.edu). The adaptation to the IBM PC/RT is largely
due to Vernon Lee, on machines made available to Rice by IBM.
Much of the HP specific code and a number of good suggestions for improving the
generic code are due to Walter Underwood.
Robert Brazile (brazile@diamond.bbn.com) originally supplied the ULTRIX code.
Al Dosser (dosser@src.dec.com) and Regis Cridlig (Regis.Cridlig@cl.cam.ac.uk)
subsequently provided updates and information on variation between ULTRIX
systems. Parag Patel (parag@netcom.com) supplied the A/UX code.
Jesper Peterson(jep@mtiame.mtia.oz.au), Michel Schinz, and
Martin Tauchmann (martintauchmann@bigfoot.com) supplied the Amiga port.
Thomas Funke (thf@zelator.in-berlin.de(?)) and
Brian D.Carlstrom (bdc@clark.lcs.mit.edu) supplied the NeXT ports.
Douglas Steel (doug@wg.icl.co.uk) provided ICL DRS6000 code.
Bill Janssen (janssen@parc.xerox.com) supplied the SunOS dynamic loader
specific code. Manuel Serrano (serrano@cornas.inria.fr) supplied linux and
Sony News specific code. Al Dosser provided Alpha/OSF/1 code. He and
Dave Detlefs(detlefs@src.dec.com) also provided several generic bug fixes.
Alistair G. Crooks(ace@uts.amdahl.com) supplied the NetBSD and 386BSD ports.
Jeffrey Hsu (hsu@soda.berkeley.edu) provided the FreeBSD port.
Brent Benson (brent@jade.ssd.csd.harris.com) ported the collector to
a Motorola 88K processor running CX/UX (Harris NightHawk).
Ari Huttunen (Ari.Huttunen@hut.fi) generalized the OS/2 port to
nonIBM development environments (a nontrivial task).
Patrick Beard (beard@cs.ucdavis.edu) provided the initial MacOS port.
David Chase, then at Olivetti Research, suggested several improvements.
Scott Schwartz (schwartz@groucho.cse.psu.edu) supplied some of the
code to save and print call stacks for leak detection on a SPARC.
Jesse Hull and John Ellis supplied the C++ interface code.
Zhong Shao performed much of the experimentation that led to the
current typed allocation facility. (His dynamic type inference code hasn't
made it into the released version of the collector, yet.)

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1.1403 python-jsonpointer 1.10-1

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1.1406 hunspell 1.3.2-16.amzn2

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Main features:

* Extended support for language peculiarities; Unicode character encoding, compounding and complex morphology.
* Improved suggestion using n-gram similarity, rule and dictionary based pronunciation data.
* Morphological analysis, stemming and generation.
* Hunspell is based on [MySpell](http://lingucomponent.openoffice.org/MySpell-3.zip) and works also with MySpell dictionaries.
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1.1409 kmod 24 1ubuntu3.5

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* /opt/ws_local/PERMITS_SQL/1013966702_1594214784.99/0/cron-3-0pl1-orig-tar-gz/cron-3.0pl1.orig/compat.h
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" @(#)bitstring.3 5.1 (Berkeley) 12/13/89
"

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1013966702_1594214784.99/0/cron-3-0pl1-orig-tar-gz/cron-3.0pl1.orig/bitstring.3
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* Paul Vixie          <paul@vix.com>          uunet!decwrl!vixie!paul
*/

$Id: INSTALL,v 2.5 1994/01/15 20:43:43 vixie Exp $

Read the comments at the top of the Makefile, then edit the area marked
'configurable stuff'.

Edit config.h. The stuff I expect you to change is down a bit from the
top of the file, but it's clearly marked. Also look at pathnames.h.

You don't have to create the /var/cron or /var/cron/tabs directories, since
both the daemon and the `crontab' program will do this the first time they
run if they don't exist. You do need to have a /var, though -- just "mkdir
/var" if you don't have one, or you can "mkdir /usr/var; ln -s /usr/var /var"
if you expect your /var to have a lot of stuff in it.

You will also need /usr/local/etc and /usr/local/bin directories unless you
change the Makefile. These will have to be created by hand, but if you are
a long-time Usenet user you probably have them already. /usr/local/man is
where I keep my man pages, but I have the source for `man' and you probably
do not. Therefore you may have to put the man pages into /usr/man/man1,
which will be hard since there will be name collisions. (Note that the man
command was originally written by Bill Joy before he left Berkeley, and it
contains no AT&T code, so it is in UUNET's archive of freely-distributable
BSD code.)

LINUX note: /usr/include/paths.h on some linux systems shows _PATH_SENDMAIL
to be /usr/bin/sendmail even though sendmail is installed in /usr/lib.
you should check this out.

say:
make all

su and say:
make install

Note that if I can get you to "su and say" something just by asking, you have
a very serious security problem on your system and you should look into it.

Edit your /usr/lib/crontab file into little pieces -- see the CONVERSION file
for help on this.

Use the `crontab' command to install all the little pieces you just created.
Some examples (see below before trying any of these!)
crontab -u uucp -r /usr/lib/uucp/crontab.src
crontab -u news -r /usr/lib/news/crontab.src
crontab -u root -r /usr/adm/crontab.src

Notes on above examples: (1) the .src files are copied at the time the command is issued; changing the source files later will have no effect until they are reinstalled with another `crontab -r' command. (2) The crontab command will affect the crontab of the person using the command unless `u' USER is given; `-u' only works for root. When using most `su' commands under most BSD's, `crontab' will still think of you as yourself even though you may think of yourself as root -- so use `-u' liberally. (3) the `-r' option stands for 'replace'; check the man page for crontab(1) for other possibilities.

Kill your existing cron daemon -- do `ps aux' and look for /etc/cron.

Edit your /etc/rc or /etc/rc.local, looking for the line that starts up /etc/cron. Comment it out and add a line to start the new cron daemon -- usually /usr/local/etc/cron, unless you changed it in the Makefile.

Start up this cron daemon yourself as root. Just type /usr/local/etc/cron (or whatever); no `&' is needed since the daemon forks itself and the process you executed returns immediately.

ATT notes: for those people unfortunate enough to be stuck on a AT&T UNIX, you will need the public-domain "libndir", found in the B News source and in any comp.sources.unix archive. You will also need to hack the code some.

Found in path(s):
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* /opt/ws_local/PERMITS_SQL/1013966702_1594214784.99/0/cron-3-0pl1-orig-tar-gz/cron-3.0pl1.orig/Makefile
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$/Id: crontab.5,v 2.4 1994/01/15 20:43:43 vixie Exp$

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   *
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$/Id: crontab.1,v 2.4 1993/12/31 10:47:33 vixie Exp$

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* /
*
*$Id: cron.8,v 2.2 1993/12/28 08:34:43 vixie Exp $ *

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 *
* @(#)bitstring.h5.2 (Berkeley) 4/4/90
*

1.1428 d3-zoom 1.8.3
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1.1429 c3p0 0.9.5.2

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## Commands to generate dependency files
GEN_DEPS.c=$(CC) -E -MM $(DEFS) $(CPPFLAGS)
GEN_DEPS.cc=$(CXX) -E -MM $(DEFS) $(CPPFLAGS)

## Flags for position independent code
SHAREDLIBCFLAGS = -fPIC
SHAREDLIBCXXFLAGS = -fPIC
SHAREDLIBCPPFLAGS = -DPIC

## Additional flags when building libraries and with threads
THREADSCPPFLAGS = -D_REENTRANT
LIBCPPFLAGS =

## Compiler switch to embed a runtime search path
LD_RPATH=
LD_RPATH_PRE=-Wl,-rpath,

## Compiler switch to embed a library name
LD_SONAME = -Wl,-soname -Wl,$(notdir $(MIDDLE_SO_TARGET))

## Shared library options
LD_SOOPTIONS= -Wl,- Bsymbolic

## Shared object suffix
SO = so
## Non-shared intermediate object suffix
STATIC_O = ao

## Compilation rules
%.$(STATIC_O): $(srcdir)/%.c
$(COMPILE.c) $(STATICCPPFLAGS) $(STATICCFLAGS) -o $@ $<
%.o: $(srcdir)/%.c
$(COMPILE.c) $(DYNAMICCPPFLAGS) $(DYNAMICCFLAGS) -o $@ $<

%.$(STATIC_O): $(srcdir)/%.cpp
$(COMPILE.cc) $(STATICCPPFLAGS) $(STATICCXXFLAGS) -o $@ $<
%.o: $(srcdir)/%.cpp
$(COMPILE.cc) $(DYNAMICCPPFLAGS) $(DYNAMICCXXFLAGS) -o $@ $<

## Dependency rules
%.d: $(srcdir)/%.c
@echo "generating dependency information for $<"
@$(SHELL) -ec "$(GEN_DEPS.c) $<\n| sed "\n| sed "\n[ -s $@ ] || rm -f $@

%.d: $(srcdir)/%.cpp
@echo "generating dependency information for $<"
@$(SHELL) -ec "$(GEN_DEPS.cc) $<\n| sed "\n[ -s $@ ] || rm -f $@

## Versioned libraries rules
## Bind internal references

# LDflags that pkgdata will use
BIR_LDFLAGS= -Wl,-Bsymbolic

# Dependencies [i.e. map files] for the final library
BIR_DEPS=

## Remove shared library 's'
STATIC_PREFIX_WHEN_USED =
STATIC_PREFIX =

## End BSD-specific setup

### 1.1444 blang-semver 3.5.1+incompatible

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1.1449 perl-time-hires 1.9725-3.amzn2.0.2

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Implement usleep, ualarm, and gettimeofday for Perl, as well as wrappers to implement time, sleep, and alarm that know about non-integral seconds.

Note: the tests of this module are by definition time sensitive: under heavy loads the tests may fail. Reasonable relaxed criteria are being used for the tests but sometimes you may still see transient failures. Rerun the tests (make test) a couple of times, preferably with less load on the testing machine.

Also, older versions of Perl do not support '-nolinenumbers' on the XSUBPP command, however, 5.004_03 requires it (on my box, anyway) since the #line generating code in XSUBPP appears to have problems with #ifdef'd .xs code. If xsubpp complains about usage when you do a make, look at the top of the Makefile.PL and comment out the "$XSOPT=" line. Or upgrade to a newer version of Perl.

POD documentation is embedded.


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Found in path(s):

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NAME

Time::HiRes - High resolution alarm, sleep, gettimeofday, interval timers

SYNOPSIS

use Time::HiRes qw( usleep ualarm gettimeofday tv_interval nanosleep
clock_gettime clock_getres clock_nanosleep clock
stat );

usleep ($microseconds);
nanosleep ($nanoseconds);

ualarm ($microseconds);
ualarm ($microseconds, $interval_microseconds);

$t0 = [gettimeofday];
($seconds, $microseconds) = gettimeofday;

$elapsed = tv_interval ( $t0, [$seconds, $microseconds]);
$elapsed = tv_interval ( $t0, [gettimeofday]);
$elapsed = tv_interval ( $t0 );

use Time::HiRes qw ( time alarm sleep );

$now_fractions = time;
sleep ($floating_seconds);
alarm ($floating_seconds);
alarm ($floating_seconds, $floating_interval);

use Time::HiRes qw( setitimer getitimer );

setitimer ($which, $floating_seconds, $floating_interval);
getitimer ($which);

use Time::HiRes qw( clock_gettime clock_getres clock_nanosleep
ITIMER_REAL ITIMER_VIRTUAL ITIMER_PROF ITIMER_REALPROF );

$realtime   = clock_gettime(CLOCK_REALTIME);
$resolution = clock_getres(CLOCK_REALTIME);

clock_nanosleep(CLOCK_REALTIME, 1.5e9);
clock_nanosleep(CLOCK_REALTIME, time() * 1e9 + 10e9, TIMER_ABSTIME);

my $ticktock = clock();

use Time::HiRes qw( stat );
my @stat = stat("file");
my @stat = stat(FH);

=head1 DESCRIPTION

The C<Time::HiRes> module implements a Perl interface to the C<usleep>, C<nanosleep>, C<ualarm>, C<gettimeofday>, and C<setitimer>/C<getitimer> system calls, in other words, high resolution time and timers. See the L</EXAMPLES> section below and the test scripts for usage; see your system documentation for the description of the underlying C<nanosleep> or C<usleep>, C<ualarm>, C<gettimeofday>, and C<setitimer>/C<getitimer> calls.

If your system lacks C<gettimeofday()> or an emulation of it you don't get C<gettimeofday()> or the one-argument form of C<tv_interval>(). If your system lacks all of C<nanosleep>(), C<usleep>(), C<select>(), , and C<poll>, you don't get C<Time::HiRes::usleep>(), C<Time::HiRes::nanosleep>(), or C<Time::HiRes::sleep>(). If your system lacks both C<ualarm()> and C<setitimer()> you don't get C<Time::HiRes::ualarm()> or C<Time::HiRes::alarm>().

If you try to import an unimplemented function in the C<use> statement it will fail at compile time.

If your subsecond sleeping is implemented with C<nanosleep()> instead of C<usleep()>, you can mix subsecond sleeping with signals since C<nanosleep()> does not use signals. This, however, is not portable, and you should first check for the truth value of C<&Time::HiRes::d_nanosleep> to see whether you have nanosleep, and then carefully read your C<nanosleep()> C API documentation for any peculiarities.

If you are using C<nanosleep> for something else than mixing sleeping with signals, give some thought to whether Perl is the tool you should be using for work requiring nanosecond accuracies.

Remember that unless you are working on a I<hard realtime> system, any clocks and timers will be imprecise, especially so if you are working in a pre-emptive multiuser system. Understand the difference between I<wallclock time> and process time (in UNIX-like systems the sum of I<user> and I<system> times). Any attempt to sleep for X seconds will most probably end up sleeping B<more> than that, but don't be surprised if you end up sleeping slightly B<less>.

The following functions can be imported from this module.
No functions are exported by default.

=over 4
=item gettimeofday ()

In array context returns a two-element array with the seconds and microseconds since the epoch. In scalar context returns floating seconds like C<Time::HiRes::time()> (see below).

=item usleep ( $useconds )

Sleeps for the number of microseconds (millionths of a second) specified. Returns the number of microseconds actually slept. Can sleep for more than one second, unlike the C<usleep> system call. Can also sleep for zero seconds, which often works like a I<thread yield>. See also C<Time::HiRes::usleep()>, C<Time::HiRes::sleep()>, and C<Time::HiRes::clock_nanosleep()>.

Do not expect usleep() to be exact down to one microsecond.

=item nanosleep ( $nanoseconds )

Sleeps for the number of nanoseconds (1e9ths of a second) specified. Returns the number of nanoseconds actually slept (accurate only to microseconds, the nearest thousand of them). Can sleep for more than one second. Can also sleep for zero seconds, which often works like a I<thread yield>. See also C<Time::HiRes::sleep()>, C<Time::HiRes::usleep()>, and C<Time::HiRes::clock_nanosleep()>.

Do not expect nanosleep() to be exact down to one nanosecond. Getting even accuracy of one thousand nanoseconds is good.

=item ualarm ( $useconds [, $interval_useconds ] )

Issues a C<ualarm> call; the C<$interval_useconds> is optional and will be zero if unspecified, resulting in C<alarm>-like behaviour.

Returns the remaining time in the alarm in microseconds, or C<undef> if an error occurred.

ualarm(0) will cancel an outstanding ualarm().

Note that the interaction between alarms and sleeps is unspecified.

=item tv_interval

tv_interval ( $ref_to_gettimeofday [, $ref_to_later_gettimeofday] )

Returns the floating seconds between the two times, which should have been returned by C<_gettimeofday()> . If the second argument is omitted,
then the current time is used.

=item time ()

Returns a floating seconds since the epoch. This function can be imported, resulting in a nice drop-in replacement for the C<time> provided with core Perl; see the L</EXAMPLES> below.

B<NOTE 1>: This higher resolution timer can return values either less or more than the core C<time>(), depending on whether your platform rounds the higher resolution timer values up, down, or to the nearest second to get the core C<time>(), but naturally the difference should be never more than half a second. See also L</clock_getres>, if available in your system.

B<NOTE 2>: Since Sunday, September 9th, 2001 at 01:46:40 AM GMT, when the C<time()> seconds since epoch rolled over to 1_000_000_000, the default floating point format of Perl and the seconds since epoch have conspired to produce an apparent bug: if you print the value of C<Time::HiRes::time()> you seem to be getting only five decimals, not six as promised (microseconds). Not to worry, the microseconds are there (assuming your platform supports such granularity in the first place). What is going on is that the default floating point format of Perl only outputs 15 digits. In this case that means ten digits before the decimal separator and five after. To see the microseconds you can use either C<print>/C<sprintf> with C<"%.6f">, or the C<gettimeofday()> function in list context, which will give you the seconds and microseconds as two separate values.

=item sleep ( $floating_seconds )

Sleeps for the specified amount of seconds. Returns the number of seconds actually slept (a floating point value). This function can be imported, resulting in a nice drop-in replacement for the C<sleep> provided with perl, see the L</EXAMPLES> below.

Note that the interaction between alarms and sleeps is unspecified.

=item alarm ( $floating_seconds [, $interval_floating_seconds ] )

The C<SIGALRM> signal is sent after the specified number of seconds. Implemented using C<setitimer()> if available, C<ualarm()> if not. The C<$interval_floating_seconds> argument is optional and will be zero if unspecified, resulting in C<alarm()>-like behaviour. This function can be imported, resulting in a nice drop-in replacement for the C<alarm> provided with perl, see the L</EXAMPLES> below.

Returns the remaining time in the alarm in seconds, or C<undef>
if an error occurred.

B**<NOTE 1>**: With some combinations of operating systems and Perl releases C\$SIGALRM\$ restarts C\$select\$( ), instead of interrupting it. This means that an C\$alarm\$( ) followed by a C\$select\$( ) may together take the sum of the times specified for the C\$alarm\$( ) and the C\$select\$( ), not just the time of the C\$alarm\$( ).

Note that the interaction between alarms and sleeps is unspecified.

=item setitimer ( $which, $floating_seconds [, $interval_floating_seconds ] )

Start up an interval timer: after a certain time, a signal ($which) arrives, and more signals may keep arriving at certain intervals. To disable an "itimer", use C\$floating_seconds\$ of zero. If the C\$interval_floating_seconds\$ is set to zero (or unspecified), the timer is disabled B\$after\$ the next delivered signal.

Use of interval timers may interfere with C\$alarm\$( ), C\$sleep\$( ), and C\$usleep\$( ). In standard-speak the "interaction is unspecified", which means that I\$anything\$ may happen: it may work, it may not.

In scalar context, the remaining time in the timer is returned.

In list context, both the remaining time and the interval are returned.

There are usually three or four interval timers (signals) available: the C\$which\$ can be C\$ITIMER_REAL\$, C\$ITIMER_VIRTUAL\$, C\$ITIMER_PROF\$, or C\$ITIMER_REALPROF\$. Note that which ones are available depends: true UNIX platforms usually have the first three, but only Solaris seems to have C\$ITIMER_REALPROF\$ (which is used to profile multithreaded programs). Win32 unfortunately does not have interval timers.

C\$ITIMER_REAL\$ results in C\$alarm\$-like behaviour. Time is counted in I\$real time\$; that is, wallclock time. C\$SIGALRM\$ is delivered when the timer expires.

C\$ITIMER_VIRTUAL\$ counts time in (process) I\$virtual time\$; that is, only when the process is running. In multiprocessor/user/CPU systems this may be more or less than real or wallclock time. (This time is also known as the I\$user time\$.) C\$SIGVTALRM\$ is delivered when the timer expires.

C\$ITIMER_PROF\$ counts time when either the process virtual time or when the operating system is running on behalf of the process (such as I/O). (This time is also known as the I\$system time\$.) (The sum of user time and system time is known as the I\$CPU time\$.) C\$SIGPROF\$ is delivered when the timer expires. C\$SIGPROF\$ can interrupt system calls.
The semantics of interval timers for multithreaded programs are system-specific, and some systems may support additional interval timers. For example, it is unspecified which thread gets the signals. See your C<setitimer()> documentation.

=item getitimer ( $which )

Return the remaining time in the interval timer specified by C<$which>.

In scalar context, the remaining time is returned.

In list context, both the remaining time and the interval are returned.
The interval is always what you put in using C<setitimer()>.

=item clock_gettime ( $which )

Return as seconds the current value of the POSIX high resolution timer specified by C<$which>. All implementations that support POSIX high resolution timers are supposed to support at least the C<$which> value of C<CLOCK_REALTIME>, which is supposed to return results close to the results of C<gettimeofday>, or the number of seconds since 00:00:00:00 January 1, 1970 Greenwich Mean Time (GMT). Do not assume that CLOCK_REALTIME is zero, it might be one, or something else. Another potentially useful (but not available everywhere) value is C<CLOCK_MONOTONIC>, which guarantees a monotonically increasing time value (unlike time() or gettimeofday(), which can be adjusted).

See your system documentation for other possibly supported values.

=item clock_getres ( $which )

Return as seconds the resolution of the POSIX high resolution timer specified by C<$which>. All implementations that support POSIX high resolution timers are supposed to support at least the C<$which> value of C<CLOCK_REALTIME>, see L</clock_gettime>.

=item clock_nanosleep ( $which, $nanoseconds, $flags = 0)

Sleeps for the number of nanoseconds (1e9ths of a second) specified. Returns the number of nanoseconds actually slept. The $which is the "clock id", as with clock_gettime() and clock_getres(). The flags default to zero but C<TIMER_ABSTIME> can specified (must be exported explicitly) which means that C<$nanoseconds> is not a time interval (as is the default) but instead an absolute time. Can sleep for more than one second. Can also sleep for zero seconds, which often works like a thread yield. See also C<Time::HiRes::sleep()>, C<Time::HiRes::usleep()>, and C<Time::HiRes::nanosleep()>.
Do not expect `clock_nanosleep()` to be exact down to one nanosecond. Getting even accuracy of one thousand nanoseconds is good.

```perl
=item clock()
```

Return as seconds the I<process time> (user + system time) spent by the process since the first call to `clock()` (the definition is B<not> "since the start of the process", though if you are lucky these times may be quite close to each other, depending on the system). What this means is that you probably need to store the result of your first call to `clock()`, and subtract that value from the following results of `clock()`.

The time returned also includes the process times of the terminated child processes for which `wait()` has been executed. This value is somewhat like the second value returned by the `times()` of core Perl, but not necessarily identical. Note that due to backward compatibility limitations the returned value may wrap around at about 2147 seconds or at about 36 minutes.

```perl
=item stat
=item stat FH
=item stat EXPR
```

As L<perlfunc/stat> but with the access/modify/change file timestamps in subsecond resolution, if the operating system and the filesystem both support such timestamps. To override the standard `stat()`:

```perl
use Time::HiRes qw(stat);
```

Test for the value of &Time::HiRes::d_hires_stat to find out whether the operating system supports subsecond file timestamps: a value larger than zero means yes. There are unfortunately no easy ways to find out whether the filesystem supports such timestamps. UNIX filesystems often do; NTFS does; FAT doesn't (FAT timestamp granularity is B<two> seconds).

A zero return value of &Time::HiRes::d_hires_stat means that `Time::HiRes::stat` is a no-op passthrough for CORE::stat(), and therefore the timestamps will stay integers. The same thing will happen if the filesystem does not do subsecond timestamps, even if the &Time::HiRes::d_hires_stat is non-zero.

In any case do not expect nanosecond resolution, or even a microsecond resolution. Also note that the modify/access timestamps might have different resolutions, and that they need not be synchronized, e.g. if the operations are...
write
stat # t1
read
stat # t2

the access time stamp from t2 need not be greater-than the modify
time stamp from t1: it may be equal or less.

=head1 EXAMPLES

use Time::HiRes qw(usleep ualarm gettimeofday tv_interval);

$microseconds = 750_000;
usleep($microseconds);

# signal alarm in 2.5s & every .1s thereafter
ualarm(2_500_000, 100_000);
# cancel that ualarm
ualarm(0);

# get seconds and microseconds since the epoch
($s, $usec) = gettimeofday();

# measure elapsed time
# (could also do by subtracting 2 gettimeofday return values)
$t0 = [gettimeofday];
# do bunch of stuff here
$t1 = [gettimeofday];
# do more stuff here
$t0_t1 = tv_interval $t0, $t1;

$elapsed = tv_interval ($t0, [gettimeofday]);
$elapsed = tv_interval ($t0);# equivalent code

#
# replacements for time, alarm and sleep that know about
# floating seconds
#
use Time::HiRes;
$now_fractions = Time::HiRes::time;
Time::HiRes::sleep (2.5);
Time::HiRes::alarm (10.6666666);

use Time::HiRes qw ( time alarm sleep );
$now_fractions = time;
sleep (2.5);
alarm (10.6666666);

# Arm an interval timer to go off first at 10 seconds and
# after that every 2.5 seconds, in process virtual time

use Time::HiRes qw ( setitimer ITIMER_VIRTUAL time );

$SIG{VTALRM} = sub { print time, "\n" };
setitimer(ITIMER_VIRTUAL, 10, 2.5);

use Time::HiRes qw( clock_gettime clock_getres CLOCK_REALTIME );
# Read the POSIX high resolution timer.
my $high = clock_getres(CLOCK_REALTIME);
# But how accurate we can be, really?
my $reso = clock_getres(CLOCK_REALTIME);

use Time::HiRes qw( clock_nanosleep TIMER_ABSTIME );
clock_nanosleep(CLOCK_REALTIME, 1e6);
clock_nanosleep(CLOCK_REALTIME, 2e9, TIMER_ABSTIME);

use Time::HiRes qw( clock );
my $clock0 = clock();
... # Do something.
my $clock1 = clock();
my $clockd = $clock1 - $clock0;

use Time::HiRes qw( stat );
my ($atime, $mtime, $ctime) = (stat("istics"))[8, 9, 10];

=head1 C API

In addition to the perl API described above, a C API is available for extension writers. The following C functions are available in the modglobal hash:

<table>
<thead>
<tr>
<th>name</th>
<th>C prototype</th>
</tr>
</thead>
<tbody>
<tr>
<td>------------------</td>
<td>-------------</td>
</tr>
<tr>
<td>Time::NVtime</td>
<td>double (*)()</td>
</tr>
<tr>
<td>Time::U2time</td>
<td>void (*)(pTHX_ UV ret[2])</td>
</tr>
</tbody>
</table>

Both functions return equivalent information (like C<gettimeofday>) but with different representations. The names C<NVtime> and C<U2time> were selected mainly because they are operating system independent. (C<gettimeofday> is Unix-centric, though some platforms like Win32 and VMS have emulations for it.)

Here is an example of using C<NVtime> from C:
double (*myNVtime)(); /* Returns -1 on failure. */
SV **svp = hv_fetch(PL_modglobal, "Time::NVtime", 12, 0);
if (!svp) croak("Time::HiRes is required");
if (!SvIOK(*svp)) croak("Time::NVtime isn't a function pointer");
myNVtime = INT2PTR(double(*)(), SvIV(*svp));
printf("The current time is: %f\n", (*myNVtime)());

=head1 DIAGNOSTICS

=head2 useconds or interval more than ...

In ualarm() you tried to use number of microseconds or interval (also in microseconds) more than 1_000_000 and setitimer() is not available in your system to emulate that case.

=head2 negative time not invented yet

You tried to use a negative time argument.

=head2 internal error: useconds < 0 (unsigned ... signed ...)

Something went horribly wrong-- the number of microseconds that cannot become negative just became negative. Maybe your compiler is broken?

=head2 useconds or uinterval equal to or more than 1000000

In some platforms it is not possible to get an alarm with subsecond resolution and later than one second.

=head2 unimplemented in this platform

Some calls simply aren't available, real or emulated, on every platform.

=head1 CAVEATS

Notice that the core C<time()> maybe rounding rather than truncating. What this means is that the core C<time()> may be reporting the time as one second later than C<gettimeofday()> and C<Time::HiRes::time()>.

Adjusting the system clock (either manually or by services like ntp) may cause problems, especially for long running programs that assume a monotonously increasing time (note that all platforms do not adjust time as gracefully as UNIX ntp does). For example in Win32 (and derived platforms like Cygwin and MinGW) the Time::HiRes::time() may temporarily drift off from the system clock (and the original time()) by up to 0.5 seconds. Time::HiRes will notice this eventually and recalibrate. Note that since Time::HiRes 1.77 the clock_gettime(CLOCK_MONOTONIC)
might help in this (in case your system supports CLOCK_MONOTONIC).

Some systems have APIs but not implementations: for example QNX and Haiku have the interval timer APIs but not the functionality.

=head1 SEE ALSO

Perl modules L<BSD::Resource>, L<Time::TAI64>.

Your system documentation for C<clock>, C<clock_gettime>, C<clock_getres>, C<clock_nanosleep>, C<clock_settime>, C<getitimer>, C<gettimeofday>, C<setitimer>, C<sleep>, C<stat>, C<ualarm>.

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=head1 COPYRIGHT AND LICENSE

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=cut

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---

abstract: 'High resolution alarm, sleep, gettimeofday, interval timers'
author:
- 'Jarkko Hietaniemi <jhi@iki.fi>'
build_requires:
  ExtUtils::MakeMaker: 0
configure_requires:
  ExtUtils::MakeMaker: 0
dynamic_config: 1
Generated by: 'ExtUtils::MakeMaker version 6.62, CPAN::Meta::Converter version 2.112621'
License: unknown
Meta-spec:
  url: http://module-build.sourceforge.net/META-spec-v1.4.html
  version: 1.4
Name: Time-HiRes
No index:
  directory:
    - t
    - inc
Requires:
  Carp: 0
  Config: 0
  DynaLoader: 0
  Exporter: 0
  ExtUtils::MakeMaker: 0
  Test::More: 0.82
  strict: 0
Version: 1.9725

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/*
  *
  * Copyright (c) 1996-2002 Douglas E. Wegscheid.  All rights reserved.
  *
  * Copyright (c) 2002-2010 Jarkko Hietaniemi.
  * All rights reserved.
  *
  * Copyright (C) 2011, 2012 Andrew Main (Zefram) <zefram@fysh.org>
  *
  * This program is free software; you can redistribute it and/or modify
  * it under the same terms as Perl itself.
  */

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/*

ppport.h -- Perl/Pollution/Portability Version 3.13
SKIP

=head1 NAME

ppport.h - Perl/Pollution/Portability version 3.13

=head1 SYNOPSIS

perl ppport.h [options] [source files]

Searches current directory for files if no [source files] are given

--help show short help
--version show version
--patch=file write one patch file with changes
--copy=suffix write changed copies with suffix
--diff=program use diff program and options
--compat-version=version provide compatibility with Perl version
--cplusplus accept C++ comments
--quiet don't output anything except fatal errors
--nodiag don't show diagnostics
--nohints don't show hints
--nochanges don't suggest changes
--nofilter don't filter input files
--strip strip all script and doc functionality from ppport.h
--list-provided list provided API
--list-unsupported list unsupported API
--api-info=name show Perl API portability information

=head1 COMPATIBILITY
This version of F<ppport.h> is designed to support operation with Perl installations back to 5.003, and has been tested up to 5.10.0.

=head1 OPTIONS

=head2 --help
Display a brief usage summary.

=head2 --version
Display the version of F<ppport.h>.

=head2 --patch=I<file>
If this option is given, a single patch file will be created if any changes are suggested. This requires a working diff program to be installed on your system.

=head2 --copy=I<suffix>
If this option is given, a copy of each file will be saved with the given suffix that contains the suggested changes. This does not require any external programs. Note that this does not automagically add a dot between the original filename and the suffix. If you want the dot, you have to include it in the option argument.

If neither C<--patch> or C<--copy> are given, the default is to simply print the diffs for each file. This requires either C<Text::Diff> or a C<diff> program to be installed.

=head2 --diff=I<program>
Manually set the diff program and options to use. The default is to use C<Text::Diff>, when installed, and output unified context diffs.

=head2 --compat-version=I<version>
Tell F<ppport.h> to check for compatibility with the given Perl version. The default is to check for compatibility with Perl version 5.003. You can use this option to reduce the output of F<ppport.h> if you intend to be backward compatible only down to a certain Perl version.

=head2 --cplusplus
Usually, F<ppport.h> will detect C++ style comments and replace them with C style comments for portability reasons. Using this option instructs F<ppport.h> to leave C++ comments untouched.

=head2 --quiet

Be quiet. Don't print anything except fatal errors.

=head2 --nodiag

Don't output any diagnostic messages. Only portability alerts will be printed.

=head2 --nohints

Don't output any hints. Hints often contain useful portability notes. Warnings will still be displayed.

=head2 --nochanges

Don't suggest any changes. Only give diagnostic output and hints unless these are also deactivated.

=head2 --nofilter

Don't filter the list of input files. By default, files not looking like source code (i.e. not *.xs, *.c, *.cc, *.cpp or *.h) are skipped.

=head2 --strip

Strip all script and documentation functionality from F<ppport.h>. This reduces the size of F<ppport.h> dramatically and may be useful if you want to include F<ppport.h> in smaller modules without increasing their distribution size too much.

The stripped F<ppport.h> will have a C|--unstrip> option that allows you to undo the stripping, but only if an appropriate C<Devel::PPPort> module is installed.

=head2 --list-provided

Lists the API elements for which compatibility is provided by F<ppport.h>. Also lists if it must be explicitly requested, if it has dependencies, and if there are hints or warnings for it.

=head2 --list-unsupported
Lists the API elements that are known not to be supported by F<ppport.h> and below which version of Perl they probably won't be available or work.

=head2 --api-info=I<name>

Show portability information for API elements matching I<name>. If I<name> is surrounded by slashes, it is interpreted as a regular expression.

=head1 DESCRIPTION

In order for a Perl extension (XS) module to be as portable as possible across differing versions of Perl itself, certain steps need to be taken.

=item *

Including this header is the first major one. This alone will give you access to a large part of the Perl API that hasn't been available in earlier Perl releases. Use perl pppport.h --list-provided to see which API elements are provided by pppport.h.

=item *

You should avoid using deprecated parts of the API. For example, using global Perl variables without the C<PL_> prefix is deprecated. Also, some API functions used to have a C<perl_> prefix. Using this form is also deprecated. You can safely use the supported API, as F<ppport.h> will provide wrappers for older Perl versions.

=item *

If you use one of a few functions or variables that were not present in earlier versions of Perl, and that can't be provided using a macro, you have to explicitly request support for these functions by adding one or more C<#define>s in your source code before the inclusion of F<ppport.h>.

These functions or variables will be marked C<explicit> in the list shown by C<--list-provided>.

Depending on whether you module has a single or multiple files that use such functions or variables, you want either C<static> or global
variants.

For a C<static> function or variable (used only in a single source file), use:

```c
#define NEED_function
#define NEED_variable
```

For a global function or variable (used in multiple source files), use:

```c
#define NEED_function_GLOBAL
#define NEED_variable_GLOBAL
```

Note that you mustn't have more than one global request for the same function or variable in your project.

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</table>

To avoid namespace conflicts, you can change the namespace of the explicitly exported functions / variables using the C<DPPP_NAMESPACE> macro. Just C<#define> the macro before including C<ppport.h>: 

---

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#define DPPP_NAMESPACE MyOwnNamespace_
#include "ppport.h"

The default namespace is C<DPPP_>.

=back

The good thing is that most of the above can be checked by running F<ppport.h> on your source code. See the next section for details.

=head1 EXAMPLES

To verify whether F<ppport.h> is needed for your module, whether you should make any changes to your code, and whether any special defines should be used, F<ppport.h> can be run as a Perl script to check your source code. Simply say:

perl ppport.h

The result will usually be a list of patches suggesting changes that should at least be acceptable, if not necessarily the most efficient solution, or a fix for all possible problems.

If you know that your XS module uses features only available in newer Perl releases, if you’re aware that it uses C++ comments, and if you want all suggestions as a single patch file, you could use something like this:

perl ppport.h --compat-version=5.6.0 --cplusplus --patch=test.diff

If you only want your code to be scanned without any suggestions for changes, use:

perl ppport.h --nochanges

You can specify a different C<diff> program or options, using the C<--diff> option:

perl ppport.h --diff='diff -C 10'

This would output context diffs with 10 lines of context.

If you want to create patched copies of your files instead, use:

perl ppport.h --copy=.new

To display portability information for the C<newSVpvn> function,
use:

    perl ppport.h --api-info=newSVpvn

Since the argument to C<--api-info> can be a regular expression, you can use

    perl ppport.h --api-info=/_nomg$/

to display portability information for all C<_nomg> functions or

    perl ppport.h --api-info=/.

to display information for all known API elements.

=head1 BUGS

If this version of F<ppport.h> is causing failure during the compilation of this module, please check if newer versions of either this module or C<Devel::PPPort> are available on CPAN before sending a bug report.

If F<ppport.h> was generated using the latest version of C<Devel::PPPort> and is causing failure of this module, please file a bug report using the CPAN Request Tracker at L<http://rt.cpan.org/>.

Please include the following information:

=over 4

=item 1.

The complete output from running "perl -V"

=item 2.

This file.

=item 3.

The name and version of the module you were trying to build.

=item 4.

A full log of the build that failed.

=item 5.
Any other information that you think could be relevant.

=back

For the latest version of this code, please get the C<Devel::PPPort> module from CPAN.

=head1 COPYRIGHT

Version 3.x, Copyright (c) 2004-2007, Marcus Holland-Moritz.

Version 2.x, Copyright (C) 2001, Paul Marquess.

Version 1.x, Copyright (C) 1999, Kenneth Albanowski.

This program is free software; you can redistribute it and/or modify it under the same terms as Perl itself.

=head1 SEE ALSO

See L<Devel::PPPort>.

=cut

use strict;

# Disable broken TRIE-optimization
BEGIN { eval '{^RE_TRIE_MAXBUF} = -1' if $] >= 5.009004 && $] <= 5.009005 }

my $VERSION = 3.13;

my %opt = (
  quiet  => 0,
  diag   => 1,
  hints  => 1,
  changes => 1,
  cplusplus => 0,
  filter  => 1,
  strip   => 0,
  version => 0,
);

my($ppport) = $0 =~ /\[\w.]+$/;
my $LF = '(?:\r\n|\[\r\n\])'; # line feed
my $HS = '[ \t]';             # horizontal whitespace

# Never use C comments in this file!
my $ecs = '/.*/';

my $cce = '*'.'/';
my $rccs = quotemeta $ccs;
my $rcce = quotemeta $cce;
eval {
require Getopt::Long;
Getopt::Long::GetOptions(\%opt, qw(
help quiet diag! filter! hints! changes! cplusplus strip version
patch=s copy=s diff=s compat-version=s
list-provided list-unsupported api-info=s
)) or usage();
};
if ($@ and grep /^-/, @ARGV) {
usage() if "@ARGV" =~ /^--?h(?:elp)?$/;
die "Getopt::Long not found. Please don't use any options.\n";
}
if ($opt{version}) {
print "This is $0 $VERSION.\n";
exit 0;
}
usage() if $opt{help};
strip() if $opt{strip};
if (exists $opt{'compat-version'}) {
my($r,$v,$s) = eval { parse_version($opt{'compat-version'}) };
if ($@) {
die "Invalid version number format: '$opt{'compat-version'}'\n";
}
die "Only Perl 5 is supported\n" if $r != 5;
die "Invalid version number: $opt{'compat-version'}\n" if $v >= 1000 || $s >= 1000;
$opt{'compat-version'} = sprintf "%d.%03d%03d", $r, $v, $s;
}
else {
$opt{'compat-version'} = 5;
}
my %API = map { /^(\w+)\|([^|]*)\|([^|]*)\|(\w*)$/
? ( $1 => {
($2
? ( base => $2 ) : ()),
($3
? ( todo => $3 ) : ()),
(index($4, 'v') >= 0 ? ( varargs => 1 ) : ()),
(index($4, 'p') >= 0 ? ( provided => 1 ) : ()),
(index($4, 'n') >= 0 ? ( nothxarg => 1 ) : ()),
})
: die "invalid spec: $_" } qw(

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PAD_COMPNAME_TYPE|||
PAD_RESTORE_LOCAL|||
PAD_SAVE_LOCAL|||
PAD_SAVE_SETNULLPAD|||
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to_uni_lower|5.007003|
if (exists $opt{'list-unsupported'}) {
    my $f;
    for $f (sort { lc $a cmp lc $b } keys %API) {
        next unless $API{$f}{todo};
        print "$f ", ": "x(40-length($f)), " ", format_version($API{$f}{todo}), ": 
    }
    exit 0;
}
}
# Scan for possible replacement candidates
my(%replace, %need, %hints, %warnings, %depends);
my $replace = 0;
my($hint, $define, $function);
sub find_api
{
my $code = shift;
$code =~ s{
/ (?: \*[^*]*\*+(?:[^$ccs][^*]*\*+)* / | /[^\r\n]*)
| "[^"\\]*(?:\\.[^"\\]*)*"
| '[^'\\]*(?:\\.[^'\\]*)*' }{}egsx;
grep { exists $API{$_} } $code =~ /(\w+)/mg;
}
while (<DATA>) {
if ($hint) {
my $h = $hint->[0] eq 'Hint' ? \%hints : \%warnings;
if (m{^\s*\*\s(.*?)\s*$}) {
for (@{$hint->[1]}) {
$h->{$_} ||= ''; # suppress warning with older perls
$h->{$_} .= "$1\n";
}
}
else { undef $hint }
}
$hint = [$1, [split /,?\s+/, $2]]
if m{^\s*$rccs\s+(Hint|Warning):\s+(\w+(?:,?\s+\w+)*)\s*$};
if ($define) {
if ($define->[1] =~ /\\$/) {
$define->[1] .= $_;
}
else {
if (exists $API{$define->[0]} && $define->[1] !~ /^DPPP_\(/) {
my @n = find_api($define->[1]);
push @{$depends{$define->[0]}}, @n if @n
}
undef $define;
}
}
$define = [$1, $2] if m{^\s*#\s*define\s+(\w+)(?:\([^)]*\))?\s+(.*)};

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if ($function) {
    if (/$^/) {
        if (exists $API{$function->[0]}) {
            my @$n = find_api($function->[1]);
            push @{$depends{$function->[0]}}, @$n if @$n
        }
        undef $define;
    } else {
        $function->[1] .= $_;
    }
}

$function = [$_,""] if m{^DPPP_\(my_(\w+)\)\};

$replace     = $1 if m{^\s*$rccs\s+Replace:\s+(\d+)\s+\$rcce\s*\$};
$replace{$_} = $1 if m{^\s*$\#s*define\s+\(\w+)\s+\$rcce\s*\$\};
$replace{$_} = $1 if m{^\s*$\#s*define\s+\(\w+\)?\s+\$rcce\s*\$\};
$replace{$_} = $1 if m{^\s*$\#s*define\s+\(\w+)\s+\$rcce\s*\$\};
$replace{$_} = $1 if m{^\s*$\#s*define\s+\(\w+)\s+\$rcce\s*\$\};

if (m{^\s*$rccs\s+\(\w+)\s+\$rcce\s+\(\w+)\s+\$rcce\s*\$}) {
    push @{$depends{$_}}, map { s/\s+//g; $_ } split /,/, $2;
}

$need{$_} = 1 if m{^\#if\s+defined\(\$need\(\w+\)?\s+\$need\(\w+\)\)$};
}

for (values %depends) {
    my %s;
    $s = [sort grep !$s{$_}++, @$_];
}

if (exists $opt{‘api-info’}) {
    my $f;
    my $count = 0;
    my $match = $opt{‘api-info’} =~ m!^/(.*)/$! ? $1 : "\Q$opt{‘api-info’}\E\$";
    for $f (sort { lc $a cmp lc $b } keys %API) {
        next unless $f =~ /$match/;
        print "\n=== $f ===\n\n";
        my $info = 0;
        if ($API{$f}{base} || $API{$f}{todo}) {
            my $base = format_version($API{$f}{base} || $API{$f}{todo});
            print \n"Supported at least starting from perl-$base:\n";
            $info++;
        }
        if ($API{$f}{provided}) {
            my $todo = $API{$f}{todo} ? format_version($API{$f}{todo}) : "5.003";
            print \n"Support by $ppport provided back to perl-$todo:\n";
        }
    }
}

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print "Support needs to be explicitly requested by NEED_$f.\n" if exists $need{$f};
print "Depends on: ", join(', ', @{$depends{$f}} ), ".\n" if exists $depends{$f};
print "\nShints{$f}" if exists $shints{$f};
print "\nWarnings{$f}" if exists $warnings{$f};
$info++;}
print "No portability information available.\n" unless $info;
$count++;}
$count or print "Found no API matching \"api-info\".\n";
print "\n";
exit 0;
if (exists $opt{list-provided}) {
my $f;
for $f (sort { lc $a cmp lc $b } keys %API) {
next unless $API{$f}{provided};
my @flags;
push @flags, 'explicit' if exists $need{$f};
push @flags, 'depend' if exists $depends{$f};
push @flags, 'hint' if exists $shints{$f};
push @flags, 'warning' if exists $warnings{$f};
my $flags = @flags ? '[join(', ', @flags)].\n" : ";
print "$flags\n";
exit 0;
}
my @flags;
my @srcext = qw( .xs .c .h .cc .cpp .c.inc .xs.inc );
my $srcext = join '|', map { quotemeta $ } @srcext;
if (@ARGV) {
my %seen;
for (@ARGV) {
if (-e) {
if (-f) {
push @files, $_ unless $seen{$_}++;}
else { warn "$_ is not a file.\n" }
}
else {
my @new = grep { -f } glob $_
or warn ""$_ does not exist.\n";push @files, grep { !$seen{$_}++ } @new;
}
}
}
else {
eval {
require File::Find;
File::Find::find(sub {
$File::Find::name =~ /($srcext)$/i
and push @files, $File::Find::name;
}, '.');
};
if ($@) {
@files = map { glob "*$_" } @srcext;
}
}
if (!@ARGV || $opt{filter}) {
my(@in, @out);
my %xsc = map { /(.*)\.xs$/ ? ("$1.c" => 1, "$1.cc" => 1) : () } @files;
for (@files) {
my $out = exists $xsc{$_} || /\b\Q$ppport\E$/i || !/($srcext)$/i;
push @{ $out ? \@out : \@in }, $_;
}
if (@ARGV && @out) {
warning("Skipping the following files (use --nofilter to avoid this):\n| ", join "\n| ", @out);
}
@files = @in;
}
die "No input files given!\n" unless @files;
my(%files, %global, %revreplace);
%revreplace = reverse %replace;
my $filename;
my $patch_opened = 0;
for $filename (@files) {
unless (open IN, "<$filename") {
warn "Unable to read from $filename: $!\n";
next;
}
info("Scanning $filename ...");
my $c = do { local $/; <IN> };
close IN;
my %file = (orig => $c, changes => 0);
# Temporarily remove C/XS comments and strings from the code

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my @ccom;

$c =~ s{
  ( ^\$HS*\$HS*include\b[^\r\n]+\b(?:\Q$ppport\E|XSUB.h)\b[^\r\n]*)
  | ^\$HS*\$HS*?:define|elif|if(?:?:def)?\b[^\r\n]*)
  | ( ^\$HS*[^\r\n]*)
  | "[^\r\n]*(?<![^\r\n]*)"
  | \[^\r\n]([^\r\n]*)*
  | / (?: \*[^\*]*\*+(?:[^$ccs]\[^*]*\*+)* / | /[\^\r\n]*) )
}{ defined $2 and push @ccom, $2; defined $1 ? $1 : "$ccs$#ccom$cce" }mgsex;

$file{ccom} = \@ccom;
$file{code} = $c;
$file{has_inc_ppport} = $c =~ /^\$HS*\$HS*include[^\r\n]+\bQ$ppport\E\b/m;

my $func;

for $func (keys %API) {
  my $match = $func;
  $match .= "\$revreplace\{\$func\}" if exists $revreplace{$func};
  if ($c =~ \A(?<!Perl_)?($match)\b/) {
    $file{uses_replace}{$1}++ if exists $revreplace{$func} && $1 eq $revreplace{$func};
    $file{uses_Perl}{$func}++ if $c =~ \bPerl_$func\b/;
    if (exists $API{$func}{provided}) {
      $file{uses_provided}{$func}++;
      if (!exists $API{$func}{base} || $API{$func}{base} > $opt{'compat-version'}) {
        $file{uses}{$func}++;
        my @deps = rec_depend($func);
        if (@deps) {
          $file{uses}{_} = \@deps;
          for (@deps) {
            $file{uses}{$_} = 0 unless exists $file{uses}{$_};
          }
        }
        for ($func, @deps) {
          $file{needs}{$_} = 'static' if exists $need{$_};
        }
      }
    }
  }
  if (exists $API{$func}{todo} && $API{$func}{todo} > $opt{'compat-version'}) {
    if ($c =~ \b$func\b/) {
      $file{uses_todo}{$func}++;
    }
  }
}
while ($c =~ /^\$/HS*\$HS*define\$HS+(NEED_\((w+?)\(_GLOBAL\)?)/b/m) {  
  $file{defined $3 ? 'needed_global' : 'needed_static'}{$2}++;  
}  
else { warning("Possibly wrong #define $1 in $filename") }  
}  

for (qw(uses needs uses_todo needed_global needed_static)) {  
  for $func (keys %{$file{$_}}) {  
    push @$global{$_}{$func}, $filename;  
  }  
}  

$files{$filename} = %$file;  
}  

# Globally resolve NEED_'s  
my $need;  
for $need (keys %{$global{needs}}) {  
  if (@{$global{needs}{$need}} > 1) {  
    my @targets = @{$global{needs}{$need}};  
    my $target = shift @targets;  
    $files{$target}{needs}{$need} = 'global';  
    for (@{$global{needs}{$need}}) {  
      $files{$_}{needs}{$need} = 'extern' if $_ ne $target;  
    }  
  }  
}  

for $filename (@files) {  
  exists $files{$filename} or next;  

  info("=== Analyzing $filename ===");  

  my %file = %{$files{$filename}};  
  my $func;  
  my $c = $file{code};  
  my $warnings = 0;  

  for $func (sort keys %{$file{uses_Perl}}) {  
    if ($API{$func}{varargs}) {  
      unless ($API{$func}{nothxarg}) {  
        my $changes = ($c =~ s{(Perl_$func\s*\(\s*)(?!aTHX_?)(\)|\[\^\s)*\}ge);  
        if ($changes) {  
          $warnings++;  
          my $message = "Warning: $func\(\$\) has a non-thx\(x\) argument\"
            . ($2 eq ') ? 'aTHX' : 'aTHX_');  
          warn($message);  
        }  
      }  
    }  
  }  
}
if ($changes) {
    warning("Doesn't pass interpreter argument aTHX to Perl_$func");
    $file{changes} += $changes;
}
}
}
else {
    warning("Uses Perl_$func instead of $func");
    $file{changes} += ($c =~ s{bPerl_$func\(.*\)\aTHX_\?\aTHX.*\b}{\$func\1\}(g);
    }
}

for $func (sort keys %{$file{uses_replace}}) {
    warning("Uses $func instead of replace{$func}");
    $file{changes} += ($c =~ s/b$func/b/replace{$func}/g);
}

for $func (sort keys %{$file{uses_provided}}) {
    if ($file{uses}{$func}) {
        if (exists $file{uses_deps}{$func}) {
            diag("Uses $func, which depends on ", join(', ', @{$file{uses_deps}{$func}}));
        } else {
            diag("Uses $func");
        }
    }
    $warnings += hint($func);
}

unless ($opt{quiet}) {
    for $func (sort keys %{$file{uses_todo}}) {
        print "*** WARNING: Uses $func, which may not be portable below perl ",
        format_version($API{$func}{todo}), ", even with $ppport\n";
        $warnings++;
    }
}

for $func (sort keys %{$file{needed_static}}) {
    my $message = ";
    if (not exists $file{uses}{$func}) {
        $message = "No need to define NEED_$func if $func is never used";
    } elsif (exists $file{needs}{$func} && $file{needs}{$func} ne 'static') {
        $message = "No need to define NEED_$func when already needed globally";
    } if ($message) {
        diag($message);
    }
}
for $func (sort keys %{$file{needed_global}}) {
  my $message = "",
  if (not exists $global{uses}[$func]) {
    $message = "No need to define NEED_${func}_GLOBAL if $func is never used";
  } elsif (exists $file{needs}[$func]) {
    if ($file{needs}[$func] eq 'extern') {
      $message = "No need to define NEED_${func}_GLOBAL when already needed globally";
    } elsif ($file{needs}[$func] eq 'static') {
      $message = "No need to define NEED_${func}_GLOBAL when only used in this file";
    }
  }
  if ($message) {
    diag($message);
    $file{changes} += ($c =~ s/^$HS*#$HS*define$HS+NEED_${func}_GLOBAL\b.*$LF//mg);
  }
}

$file{needs_inc_ppport} = keys %{$file{uses}};

if ($file{needs_inc_ppport}) {
  my $pp = "",
  for $func (sort keys %{$file{needs}}) {
    my $type = $file{needs}[$func];
    next if $type eq 'extern';
    my $suffix = $type eq 'global' ? '_GLOBAL' : "";
    unless (exists $file{"needed_${type}"}[$func]) {
      if ($type eq 'global') {
        diag("Files @[$global{needs}[$func]] need $func, adding global request");
      } else {
        diag("File needs $func, adding static request");
      }
      $pp .= "#define NEED_${func}$suffix\n";
    }
  }
  if ($pp && ($c =~ s/^(?=$HS*#$HS*define$HS+NEED_\w+/($pp/m))) {
    $pp = "",
    $file{changes}++;
  }
}
unless ($file{has_inc_ppport}) {
    diag("Needs to include "$ppport"\n"");
    $pp .= qq(#include "$ppport"
"");
}

if ($pp) {
    $file{changes} += ($c =~ s/^($HS*#$HS*define$HS+NEED_\w+.*?)/$1$pp/ms)
    || ($c =~ s/^\(?=$HS*#$HS*include.*$\Q$ppport\E)/$pp/m)
    || ($c =~ s/^($HS*#$HS*include.*XSUB\w*\w*?)/$1$pp/m)
    || ($c =~ s/^/$pp/);  
}
else {
    if ($file{has_inc_ppport}) {
        diag("No need to include "$ppport"\n");
        $file{changes} += ($c =~ s/^$HS*?#$HS*include.*$\Q$ppport\E.*?$LF//m);  
    }
}

# put back in our C comments
my $ix;
my $cppc = 0;
my @ccom = @{$file{ccom}};
for $ix (0 .. $#ccom) {
    if (!$opt{cplusplus} && $ccom[$ix] =~ s!^//!!) {
        $cppc++;
        $file{changes} += $c =~ s/$rccs$ix$rcce/$ccs$ccom[$ix] $cce/;
    }
    else {
        $c =~ s/$rccs$ix$rcce/$ccom[$ix]/;
    }
}
if ($cppc) {
    my $s = $cppc != 1 ? 's' : ':';
    warning("Uses $cppc C++ style comment$s, which is not portable\n");
}

my $s = $warnings != 1 ? 's' : ':';
my $warn = $warnings ? " ($warnings warning$s)" : "
info("Analysis completed$warn\n");

if ($file{changes}) {
    if (exists $opt{copy}) {
        my $newfile = "$filename$opt{copy}";
        if (-e $newfile) {
            error("'$newfile' already exists, refusing to write copy of "$filename\n");
        
    
    
}
else {
    local *F;
    if (open F, ">$newfile") {
        info("Writing copy of '$filename' with changes to '$newfile'");
        print F $c;
        close F;
    }
    else {
        error("Cannot open '$newfile' for writing: $!");
    }
}

elsif (exists $opt{patch} || $opt{changes}) {
    if (exists $opt{patch}) {
        unless ($patch_opened) {
            if (open PATCH, ">$opt{patch}") {
                $patch_opened = 1;
            }
        }
        else {
            error("Cannot open '$opt{patch}' for writing: $!");
            delete $opt{patch};
            $opt{changes} = 1;
            goto fallback;
        }
    }
    mydiff(
        *PATCH, $filename, $c);
    }
    else {
        fallback:
        info("Suggested changes:");
        mydiff(
            *STDOUT, $filename, $c);
    }
    else {
        my $s = $file{changes} == 1 ? '' : 's';
        info("$file{changes} potentially required change$s detected");
    }
    else {
        info("Looks good");
    }

    close PATCH if $patch_opened;

    exit 0;
sub try_use { eval "use @_; return @{$ } eq " "}

sub mydiff
{
  local *F = shift;
  my($file, $str) = @_;
  my $diff;

  if (exists $opt{diff}) {
    $diff = run_diff($opt{diff}, $file, $str);
  }

  if (!defined $diff and try_use('Text::Diff')) {
    $diff = Text::Diff::diff($file, $str, { STYLE => 'Unified' });
    $diff = <<HEADER . $diff;
    --- $file
    +++ $file.patched
    HEADER
  }

  if (!defined $diff) {
    $diff = run_diff('diff -u', $file, $str);
  }

  if (!defined $diff) {
    $diff = run_diff('diff', $file, $str);
  }

  if (!defined $diff) {
    error("Cannot generate a diff. Please install Text::Diff or use --copy.");
    return;
  }

  print F $diff;
}

sub run_diff
{
  my($prog, $file, $str) = @_;
  my $tmp = 'dppptemp';
  my $suf = 'aaa';
  my $diff = '';
  local *F;

  while (-e "$tmp.$suf") { $suf++ }
  $tmp = "$tmp.$suf";

  if (open F, ">$tmp") {

print F $str;
close F;

if (open F, "$prog $file $tmp |") {
    while (<F>) {
        s/Q$tmpl/E/$file.patched/;
        $diff .= $_;
    }
    close F;
    unlink $tmp;
    return $diff;
}

unlink $tmp;
}
else {
    error("Cannot open '$tmp' for writing: $!");
}

return undef;
}

sub rec_depend {
    my($func, $seen) = @_; return () unless exists $depends{$func}; $seen = {%{$seen||{}}}; return () if $seen->{$func}++; my %s; grep !$s{$_}++, map { ($_, rec_depend($_, $seen)) } @{$depends{$func}}; }

sub parse_version {
    my $ver = shift;
    if ($ver =~ /^\d+/.\d+/.\d+$/) { return ($1, $2, $3); }
    elsif ($ver !~ /^\d+\.\d\d\d$/) {
        die "cannot parse version '$ver\n";
    }

    $ver =~ s/_//g;
    $ver =~ s/000000/;

    my($r,$v,$s) = $ver =~ /\d+/.(\d{3})\d{3}/;

    my($r,$v,$s) = $ver =~ /\d+/.(\d{3})\d{3}/;
$v = \text{int} \; \$v;
\$s = \text{int} \; \$s;

\text{if} \; (\$r < 5 \; \text{||} \; (\$r == 5 \; \text{&&} \; \$v < 6)) \{ \\
    \text{if} \; (\$s \% 10) \{ \\
        \text{die} \; \text{"cannot parse version \$ver\n"}; \\
    \}
\}

\text{return} \; (\$r, \$v, \$s); 
\}

\text{sub} \; \text{format_version}
\{ \\
    \text{my} \; \$\text{ver} = \text{shift}; \\

    \$\text{ver} =~ s/$/000000/; \\
    \text{my}(\$r,\$v,\$s) = \$\text{ver} =~ /(d+)(\d{3})(\d{3})/; \\

    \$v = \text{int} \; \$v;
\$s = \text{int} \; \$s;

    \text{if} \; (\$r < 5 \; \text{||} \; (\$r == 5 \; \text{&&} \; \$v < 6)) \{ \\
        \text{if} \; (\$s \% 10) \{ \\
            \text{die} \; \text{"invalid version \$ver\n"}; \\
        \}
        \$s /= 10;

    \$\text{ver} = \text{sprintf} \; \text{"%d.\%03d"}, \$r, \$v; \\
    \$s > 0 \; \text{and} \; \$\text{ver} . = \text{sprintf} \; \text{"_%02d"}, \$s; \\

    \text{return} \; \$\text{ver}; \\
\}

    \text{return} \; \text{sprintf} \; \text{"%d.%d.%d"}, \$r, \$v, \$s; \\
\}

\text{sub} \; \text{info}
\{ \\
    \text{opt} \{\text{quiet}\} \; \text{and} \; \text{return}; \\
    \text{print} \; @\_., \text{"\n"}; \\
\}

\text{sub} \; \text{diag}
\{ \\
    \text{opt} \{\text{quiet}\} \; \text{and} \; \text{return}; \\
    \text{opt} \{\text{diag}\} \; \text{and} \; \text{print} \; @\_., \text{"\n"}; \\
\}
sub warning
{
$opt{quiet} and return;
print "*** ", @_, "\n";
}
sub error
{
print "*** ERROR: ", @_, "\n";
}
my %given_hints;
my %given_warnings;
sub hint
{
$opt{quiet} and return;
my $func = shift;
my $rv = 0;
if (exists $warnings{$func} && !$given_warnings{$func}++) {
my $warn = $warnings{$func};
$warn =~ s!^!*** !mg;
print "*** WARNING: $func\n", $warn;
$rv++;
}
if ($opt{hints} && exists $hints{$func} && !$given_hints{$func}++) {
my $hint = $hints{$func};
$hint =~ s/^/ /mg;
print " --- hint for $func ---\n", $hint;
}
$rv;
}
sub usage
{
my($usage) = do { local(@ARGV,$/)=($0); <> } =~ /^=head\d$HS+SYNOPSIS\s*^(.*?)\s*^=/ms;
my %M = ( 'I' => '*' );
$usage =~ s/^\s*perl\s+\S+/$^X $0/;
$usage =~ s/([A-Z])<([^>]+)>/$M{$1}$2$M{$1}/g;
print <<ENDUSAGE;
Usage: $usage
See perldoc $0 for details.
ENDUSAGE

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exit 2;
}

sub strip
{
    my $self = do { local(@ARGV,$/)=($0); <> ;};
    my($copy) = $self =~ /^=head\d+COPYRIGHT\s+(.*)$/m;
    $copy =~ s/^{\?=(\?!S+)}//gms;
    $self =~ s/^{\?=(\?!S+)}Do NOT edit.*?\(?=(^-)/$copy/ms;
    $self =~ s/^{\?=(^\_DATA:\_)}/SKIP
    if (@ARGV && $ARGV[0] eq '--unstrip') {
        eval { require Devel::PPPort ; }
        \$@ and die "Cannot require Devel::PPPort, please install.\n"
        if ($Devel::PPPort::VERSION < $VERSION) {
            die "\$0 was originally generated with Devel::PPPort $VERSION.\n"
            . "Your Devel::PPPort is only version \$Devel::PPPort::VERSION.\n"
            . "Please install a newer version, or --unstrip will not work.\n"
        }
        Devel::PPPort::WriteFile($0);
        exit 0;
    }
    print <<END;
Sorry, but this is a stripped version of \$0.

To be able to use its original script and doc functionality,
please try to regenerate this file using:

\$^X \$0 --unstrip
END

;/ms;
    my($pl, $c) = $self =~ /(.*^\_DATA\_)(.*)/ms;
    $c =~ s/ / \s+\s+/gsex;
    $c =~ s/\s+$//mg;
    $c =~ s/\s+\s+//mg;
    open OUT, ">$0" or die "cannot strip \$0: \$!a";
    print OUT "$^X $0\n";
    exit 0;
}
Found in path(s):
No license file was found, but licenses were detected in source scan.

License: GPL+ or Artistic

Found in path(s):

1.1450 file 5.29

1.1451 jnr-enxio 0.25

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1.1452 at 3.1.20-3.1ubuntu2

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This is the Debian GNU/Linux prepackaged version of the deferred
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This package was debianized by its author Thomas Koenig
<ig25@rz.uni-karlsruhe.de>, taken over and re-packaged first by Martin
Schulze <joey@debian.org> and then by Siggy Brentrup <bsb@winnegan.de>,
and then taken over by Ryan Murray <rmurray@debian.org>.

In August 2009 the upstream development and Debian packaging were taken over
by Ansgar Burchardt <ansgar@debian.org> and Cyril Brulebois <kibi@debian.org>.

In August 2015 the upstream development and Debian packaging were
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1.1464 bash-completion 2.8 1ubuntu1

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1.1465 decimal-js-light 2.5.1

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1.1466 libalgorithm-diff-xs-perl 0.04-5

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1.1467 mdadm 4.0-5.amzn2.0.2

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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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1.1469 p11-kit 0.23.22-1.amzn2.0.1

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=head2 Note For File::Spec::Win32 Maintainers

Novell NetWare inherits its File::Spec behaviour from File::Spec::Win32.

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=head1 SEE ALSO
See L<File::Spec> and L<File::Spec::Unix>. This package overrides the implementation of these methods, not the semantics.

=cut

Found in path(s):
* /opt/cola/permits/1150897886_1634081776.87/0/perl-PathTools-3.40-5.amzn2.0.2.src.rpm-cosi-expand-archive-DFqo5q1V/PathTools-3.40.tar.gz-cosi-expand-archive-ftvY5fq/PathTools-3.40/lib/File/Spec/Win32.pm

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=head1 EXIT CODES

If all your tests passed, Test::Builder will exit with zero (which is normal). If anything failed it will exit with how many failed. If you run less (or more) tests than you planned, the missing (or extras) will be considered failures. If no tests were ever run Test::Builder will throw a warning and exit with 255. If the test died, even after having successfully completed all its tests, it will still be considered a failure and will exit with 255.

So the exit codes are...

0 all tests successful
255 test died
any other number how many failed (including missing or extras)

If you fail more than 254 tests, it will be reported as 254.

=head1 THREADS

In perl 5.8.0 and later, Test::Builder is thread-safe. The test number is shared amongst all threads. This means if one thread sets the test number using current_test() they will all be effected.

Test::Builder is only thread-aware if threads.pm is loaded I<before>
Test::Builder.

=head1 EXAMPLES

CPAN can provide the best examples. Test::Simple, Test::More,
Test::Exception and Test::Differences all use Test::Builder.

=head1 SEE ALSO

Test::Simple, Test::More, Test::Harness

=head1 AUTHORS

Original code by chromatic, maintained by Michael G Schwern
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  */opt/cola/permits/1150897886_1634081776.87/0/perl-PathTools-3.40-5.amzn2.0.2.src.rpm-cosi-expand-archive-
  DFqo5q1V/PathTools-3.40.tar.gz-cosi-expand-archive-ftvWY5fq/PathTools-3.40/t/lib/Test/Builder.pm
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=head1 NAME

Test::Tutorial - A tutorial about writing really basic tests

=head1 DESCRIPTION

I<AHHHHHHH!!!! NOT TESTING! Anything but testing!
Beat me, whip me, send me to Detroit, but don't make
me write tests!>

I<*sob*> 

I<Besides, I don't know how to write the damned things.>

Is this you? Is writing tests right up there with writing
documentation and having your fingernails pulled out? Did you open up
a test and read
We start with some black magic
and decide that's quite enough for you?

It's ok. That's all gone now. We've done all the black magic for you. And here are the tricks...

=head2 Nuts and bolts of testing.

Here's the most basic test program.

#!/usr/bin/perl -w

print "1..1\n";

print 1 + 1 == 2 ? "ok 1\n" : "not ok 1\n";

since 1 + 1 is 2, it prints:

 1..1
 ok 1

What this says is: C<1..1> "I'm going to run one test." [1] C<ok 1>
"The first test passed". And that's about all magic there is to
testing. Your basic unit of testing is the I<ok>. For each thing you
test, an C<ok> is printed. Simple. B<Test::Harness> interprets your test
results to determine if you succeeded or failed (more on that later).

Writing all these print statements rapidly gets tedious. Fortunately,
there's B<Test::Simple>. It has one function, C<ok()>.

#!/usr/bin/perl -w

use Test::Simple tests => 1;

ok( 1 + 1 == 2 );

and that does the same thing as the code above. C<ok()> is the backbone
of Perl testing, and we'll be using it instead of roll-your-own from
here on. If C<ok()> gets a true value, the test passes. False, it
fails.

#!/usr/bin/perl -w

use Test::Simple tests => 2;

ok( 1 + 1 == 2 );
ok( 2 + 2 == 5 );
C<1..2> "I'm going to run two tests." This number is used to ensure your test program ran all the way through and didn't die or skip some tests. C<ok 1> "The first test passed." C<not ok 2> "The second test failed". Test::Simple helpfully prints out some extra commentary about your tests.

It's not scary. Come, hold my hand. We're going to give an example of testing a module. For our example, we'll be testing a date library, B<Date::ICal>. It's on CPAN, so download a copy and follow along. [2]

=head2 Where to start?

This is the hardest part of testing, where do you start? People often get overwhelmed at the apparent enormity of the task of testing a whole module. Best place to start is at the beginning. Date::ICal is an object-oriented module, and that means you start by making an object. So we test C<new()>.

#!/usr/bin/perl -w

use Test::Simple tests => 2;

use Date::ICal;

my $ical = Date::ICal->new;         # create an object
ok( defined $ical );               # check that we got something
ok( $ical->isa('Date::ICal') );    # and it's the right class

run that and you should get:

1..2
ok 1
ok 2

congratulations, you've written your first useful test.
That output isn’t terribly descriptive, is it? When you have two
tests you can figure out which one is #2, but what if you have 102?

Each test can be given a little descriptive name as the second
argument to C<ok()>.

use Test::Simple tests => 2;

ok( defined $ical,              'new() returned something' );
ok( $ical->isa('Date::ICal'),   " and it’s the right class" );

So now you’d see...

1..2
ok 1 - new() returned something
ok 2 - and it's the right class

Simplest way to build up a decent testing suite is to just test what
the manual says it does. [3] Let’s pull something out of the
L<Date::ICal/SYNOPSIS> and test that all its bits work.

#!/usr/bin/perl -w

use Test::Simple tests => 8;

use Date::ICal;

$ical = Date::ICal->new( year => 1964, month => 10, day => 16,
            hour => 16, min => 12, sec => 47,
            tz => '0530' );

ok( defined $ical,            'new() returned something' );
ok( $ical->isa('Date::ICal'), " and it's the right class" );
ok( $ical->sec   == 47,       ' sec()'   );
ok( $ical->min   == 12,       ' min()'   );
ok( $ical->hour  == 16,       ' hour()'  );
ok( $ical->day   == 17,       ' day()'   );
ok( $ical->month == 10,       ' month()' );
ok( $ical->year  == 1964,     ' year()'  );

run that and you get:

1..8
ok 1 - new() returned something
ok 2 - and it's the right class
ok 3 - sec()
ok 4 - min()
ok 5 - hour()
not ok 6 - day()
# Failed test (- at line 16)
ok 7 - month()
ok 8 - year()
#
# Looks like you failed 1 tests of 8.

Whoops, a failure! [4] Test::Simple helpfully lets us know on what line the failure occurred, but not much else. We were supposed to get 17, but we didn't. What did we get?? Dunno. We'll have to re-run the test in the debugger or throw in some print statements to find out.

Instead, we'll switch from B<Test::Simple> to B<Test::More>. B<Test::More> does everything B<Test::Simple> does, and more! In fact, Test::More does things I<exactly> the way Test::Simple does. You can literally swap Test::Simple out and put Test::More in its place. That's just what we're going to do.

Test::More does more than Test::Simple. The most important difference at this point is it provides more informative ways to say "ok". Although you can write almost any test with a generic C<ok()>, it can't tell you what went wrong. Instead, we'll use the C<is()> function, which lets us declare that something is supposed to be the same as something else:

```
#!/usr/bin/perl -w

use Test::More tests => 8;

use Date::ICal;

$ical = Date::ICal->new( year => 1964, month => 10, day => 16,
                      hour => 16, min => 12, sec => 47,
                      tz => '0530' );

ok( defined $ical, 'new() returned something' );
ok( $ical->isa('Date::ICal'), " and it's the right class" );
is( $ical->sec,   47, ' sec()'   );
is( $ical->min,   12, ' min()'   );
is( $ical->hour,  16, ' hour()'   );
is( $ical->day,   17, ' day()'   );
is( $ical->month, 10, ' month()'   );
is( $ical->year,  1964, ' year()'   );
```
"Is C<$ical-E<gt>sec> 47?"  "Is C<$ical-E<gt>min> 12?"  With C<is()> in place, you get some more information

```
1..8
ok 1 - new() returned something
ok 2 -   and it's the right class
ok 3 -   sec()
ok 4 -   min()
ok 5 -   hour()
not ok 6 -   day()
   #   Failed test (- at line 16)
   #       got: '16'
   #   expected: '17'
ok 7 -   month()
ok 8 -   year()
   # Looks like you failed 1 tests of 8.
```

letting us know that C<$ical-E<gt>day> returned 16, but we expected 17. A quick check shows that the code is working fine, we made a mistake when writing up the tests. Just change it to:

```
is( $ical->day, 16, '  day()' );
```

and everything works.

So any time you're doing a "this equals that" sort of test, use C<is()>.
It even works on arrays. The test is always in scalar context, so you can test how many elements are in a list this way. [5]

```
is( @foo, 5, 'foo has 5 elements' );
```

=head2 Sometimes the tests are wrong

Which brings us to a very important lesson. Code has bugs. Tests are code. Ergo, tests have bugs. A failing test could mean a bug in the code, but don't discount the possibility that the test is wrong.

On the flip side, don't be tempted to prematurely declare a test incorrect just because you're having trouble finding the bug. Invalidating a test isn't something to be taken lightly, and don't use it as a cop out to avoid work.

=head2 Testing lots of values

We're going to be wanting to test a lot of dates here, trying to trick the code with lots of different edge cases. Does it work before 1970?
After 2038? Before 1904? Do years after 10,000 give it trouble? Does it get leap years right? We could keep repeating the code above, or we could set up a little try/expect loop.

```perl
use Test::More tests => 32;
use Date::ICal;

my %ICal_Dates = (
    # An ICal string And the year, month, date
    # hour, minute and second we expect.
    '19971024T120000' => [ 1997, 10, 24, 12, 0, 0 ],
    '20390123T232832' => [ 2039, 1, 23, 23, 28, 32 ],
    '19671225T000000' => [ 1967, 12, 25, 0, 0, 0 ],
    '18990505T232323' => [ 1899, 5, 23, 23, 23 ],
);

while( my($ical_str, $expect) = each %ICal_Dates ) {
    my $ical = Date::ICal->new( ical => $ical_str);
    ok( defined $ical, "new(ical => '$ical_str')" );
    ok( $ical->isa('Date::ICal'), "  and it's the right class" );
    is( $ical->year, $expect->[0], '  year()' );
    is( $ical->month, $expect->[1], '  month()' );
    is( $ical->day, $expect->[2], '  day()' );
    is( $ical->hour, $expect->[3], '  hour()' );
    is( $ical->min, $expect->[4], '  min()' );
    is( $ical->sec, $expect->[5], '  sec()' );
}
```

So now we can test bunches of dates by just adding them to %ICal_Dates. Now that it's less work to test with more dates, you'll be inclined to just throw more in as you think of them. Only problem is, every time we add to that we have to keep adjusting the use Test::More tests =E<gt> ## line. That can rapidly get annoying. There's two ways to make this work better.

First, we can calculate the plan dynamically using the use Test::More function.

```perl
use Test::More;
use Date::ICal;
```
my %ICal_Dates = (  
  ...same as before...  
);

# For each key in the hash we're running 8 tests.
plan tests => keys %ICal_Dates * 8;

Or to be even more flexible, we use C<no_plan>. This means we're just running some tests, don't know how many. [6]

use Test::More 'no_plan';  # instead of tests => 32

now we can just add tests and not have to do all sorts of math to figure out how many we're running.

=head2 Informative names

Take a look at this line here

  ok( defined $ical, "new(ical => '$ical_str')" );

we've added more detail about what we're testing and the ICal string itself we're trying out to the name. So you get results like:

  ok 25 - new(ical => '19971024T120000')
  ok 26 - and it's the right class
  ok 27 -   year()
  ok 28 -   month()
  ok 29 -   day()
  ok 30 -   hour()
  ok 31 -   min()
  ok 32 -   sec()

if something in there fails, you'll know which one it was and that will make tracking down the problem easier. So try to put a bit of debugging information into the test names.

Describe what the tests test, to make debugging a failed test easier for you or for the next person who runs your test.

=head2 Skipping tests

Poking around in the existing Date::ICal tests, I found this in F<st/01sanity.t> [7]

  #!/usr/bin/perl -w
use Test::More tests => 7;
use Date::ICal;

# Make sure epoch time is being handled sanely.
my $t1 = Date::ICal->new( epoch => 0 );
is( $t1->epoch, 0, "Epoch time of 0" );

# XXX This will only work on unix systems.
is( $t1->ical, '19700101Z', " epoch to ical" );

is( $t1->year, 1970, " year()" );
is( $t1->month, 1, " month()" );
is( $t1->day, 1, " day()" );

# like the tests above, but starting with ical instead of epoch
my $t2 = Date::ICal->new( ical => '19700101Z' );
is( $t2->ical, '19700101Z', "Start of epoch in ICal notation" );
is( $t2->epoch, 0, " and back to ICal" );

The beginning of the epoch is different on most non-Unix operating systems [8]. Even though Perl smooths out the differences for the most part, certain ports do it differently. MacPerl is one off the top of my head. [9] We I<know> this will never work on MacOS. So rather than just putting a comment in the test, we can explicitly say it's never going to work and skip the test.

use Test::More tests => 7;
use Date::ICal;

# Make sure epoch time is being handled sanely.
my $t1 = Date::ICal->new( epoch => 0 );
is( $t1->epoch, 0, "Epoch time of 0" );

SKIP: {
    skip('epoch to ICal not working on MacOS', 6)
    if $^O eq 'MacOS';

    is( $t1->ical, '19700101Z', " epoch to ical" );

    is( $t1->year, 1970, " year()" );
is( $t1->month, 1, " month()" );
is( $t1->day, 1, " day()" );

    # like the tests above, but starting with ical instead of epoch
    my $t2 = Date::ICal->new( ical => '19700101Z' );
is( $t2->ical, '19700101Z', "Start of epoch in ICal notation" );
A little bit of magic happens here. When running on anything but MacOS, all the tests run normally. But when on MacOS, C<skip()> causes the entire contents of the SKIP block to be jumped over. It's never run. Instead, it prints special output that tells Test::Harness that the tests have been skipped.

1..7
ok 1 - Epoch time of 0
ok 2 # skip epoch to ICal not working on MacOS
ok 3 # skip epoch to ICal not working on MacOS
ok 4 # skip epoch to ICal not working on MacOS
ok 5 # skip epoch to ICal not working on MacOS
ok 6 # skip epoch to ICal not working on MacOS
ok 7 # skip epoch to ICal not working on MacOS

This means your tests won't fail on MacOS. This means less emails from MacPerl users telling you about failing tests that you know will never work. You've got to be careful with skip tests. These are for tests which don't work and I<never will>. It is not for skipping genuine bugs (we'll get to that in a moment).

The tests are wholly and completely skipped. [10] This will work.

SKIP: {
    skip("I don't wanna die!");

    die, die, die, die, die;
}

=head2 Todo tests

Thumbing through the Date::ICal man page, I came across this:

ical

$ical_string = $ical->ical;

Retrieves, or sets, the date on the object, using any valid ICal date/time string.

"Retrieves or sets". Hmmm, didn't see a test for using C<ical()> to set the date in the Date::ICal test suite. So I'll write one.
use Test::More tests => 1;
use Date::ICal;

my $ical = Date::ICal->new;
$ical->ical('20201231Z');
is( $ical->ical, '20201231Z', 'Setting via ical()' );

run that and I get

1..1
not ok 1 - Setting via ical()
#   Failed test ( - at line 6)
#   got: '20010814T233649Z'
#   expected: '20201231Z'
# Looks like you failed 1 tests of 1.

Whoops! Looks like it's unimplemented. Let's assume we don't have the time to fix this. [11] Normally, you'd just comment out the test and put a note in a todo list somewhere. Instead, we're going to explicitly state "this test will fail" by wrapping it in a C<TODO> block.

use Test::More tests => 1;

TODO: {
    local $TODO = 'ical($ical) not yet implemented';

    my $ical = Date::ICal->new;
    $ical->ical('20201231Z');

    is( $ical->ical, '20201231Z', 'Setting via ical()' );
}

Now when you run, it's a little different:

1..1
not ok 1 - Setting via ical() # TODO ical($ical) not yet implemented
#    got: '20010822T201551Z'
#    expected: '20201231Z'

Test::More doesn't say "Looks like you failed 1 tests of 1". That '# TODO' tells Test::Harness "this is supposed to fail" and it treats a failure as a successful test. So you can write tests even before you've fixed the underlying code.

If a TODO test passes, Test::Harness will report it "UNEXPECTEDLY SUCCEEDED". When that happens, you simply remove the TODO block with C<local $TODO> and turn it into a real test.
Testing with taint mode.

Taint mode is a funny thing. It's the globalest of all global features. Once you turn it on, it affects all code in your program and all modules used (and all the modules they use). If a single piece of code isn't taint clean, the whole thing explodes. With that in mind, it's very important to ensure your module works under taint mode.

It's very simple to have your tests run under taint mode. Just throw a -T into the line. Test::Harness will read the switches in and use them to run your tests.

```
#!/usr/bin/perl -Tw
...
```

So when you say make test it will be run with taint mode and warnings on.

FOOTNOTES

1. The first number doesn't really mean anything, but it has to be 1. It's the second number that's important.

2. For those following along at home, I'm using version 1.31. It has some bugs, which is good -- we'll uncover them with our tests.

3. You can actually take this one step further and test the manual itself. Have a look at Test::Inline (formerly Pod::Tests).

4. Yes, there's a mistake in the test suite. What! Me, contrived?

5. We'll get to testing the contents of lists later.
But what happens if your test program dies halfway through?! Since we didn't say how many tests we're going to run, how can we know it failed? No problem, Test::More employs some magic to catch that death and turn the test into a failure, even if every test passed up to that point.

I cleaned it up a little.

Most Operating Systems record time as the number of seconds since a certain date. This date is the beginning of the epoch. Unix's starts at midnight January 1st, 1970 GMT.

MacOS's epoch is midnight January 1st, 1904. VMS's is midnight, November 17th, 1858, but vmsperl emulates the Unix epoch so it's not a problem.

As long as the code inside the SKIP block at least compiles. Please don't ask how. No, it's not a filter.

Do NOT be tempted to use TODO tests as a way to avoid fixing simple bugs!

=head1 AUTHORS

Michael G Schwern schwern@pobox.com and the perl-qa dancers!

=head1 COPYRIGHT

Copyright 2001 by Michael G Schwern schwern@pobox.com.

This documentation is free; you can redistribute it and/or modify it under the same terms as Perl itself.
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=cut

Found in path(s):
No license file was found, but licenses were detected in source scan.

=head1 NAME

File::Spec::Functions - portably perform operations on file names

=head1 SYNOPSIS

use File::Spec::Functions;
$x = catfile('a','b');

=head1 DESCRIPTION

This module exports convenience functions for all of the class methods provided by File::Spec.

For a reference of available functions, please consult L<File::Spec::Unix>, which contains the entire set, and which is inherited by the modules for other platforms. For further information, please see L<File::Spec::Mac>, L<File::Spec::OS2>, L<File::Spec::Win32>, or L<File::Spec::VMS>.

=head2 Exports

The following functions are exported by default.

canonpath
catdir
catfile
curdir
curdirootdir
updir
no_upwards
file_name_is_absolute
path

The following functions are exported only by request.
devnull
tmpdir
splitpath
splitdir
catpath
abs2rel
rel2abs
case_tolerant

All the functions may be imported using the C<:ALL> tag.

=head1 COPYRIGHT

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it under the same terms as Perl itself.

=head1 SEE ALSO

File::Spec, File::Spec::Unix, File::Spec::Mac, File::Spec::OS2,
File::Spec::Win32, File::Spec::VMS, ExtUtils::MakeMaker

=cut

Found in path(s):
* /opt/cola/permits/1150897886_1634081776.87/0/perl-PathTools-3.40-5.amzn2.0.2.src.rpm-cosi-expand-archive-
  DFqo5q1V/PathTools-3.40.tar.gz-cosi-expand-archive-ftvWY5fq/PathTools-3.40/lib/File/Spec/Functions.pm

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=head1 SEE ALSO

See L<File::Spec> and L<File::Spec::Unix>. This package overrides the
implementation of these methods, not the semantics.

An explanation of VMS file specs can be found at
Found in path(s):
* /opt/cola/permits/1150897886_1634081776.87/0/perl-PathTools-3.40-5.amzn2.0.2.src.rpm-cosi-expand-archive-DFqo5q1V/PathTools-3.40.tar.gz-cosi-expand-archive-ftvWY5fq/PathTools-3.40/lib/File/Spec/VMS.pm
No license file was found, but licenses were detected in source scan.

=head1 AUTHORS

See the authors list in `File::Spec`. Mac OS support by Paul Schinder <schinder@pobox.com> and Thomas Wegner <wegner_thomas@yahoo.com>.

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=head1 SEE ALSO

See `File::Spec` and `File::Spec::Unix`. This package overrides the implementation of these methods, not the semantics.

=cut

Found in path(s):
* /opt/cola/permits/1150897886_1634081776.87/0/perl-PathTools-3.40-5.amzn2.0.2.src.rpm-cosi-expand-archive-DFqo5q1V/PathTools-3.40.tar.gz-cosi-expand-archive-ftvWY5fq/PathTools-3.40/lib/File/Spec/Mac.pm
No license file was found, but licenses were detected in source scan.

=back

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=cut

Found in path(s):
* /opt/cola/permits/1150897886_1634081776.87/0/perl-PathTools-3.40-5.amzn2.0.2.src.rpm-cosi-expand-archive-DFqo5q1V/PathTools-3.40.tar.gz-cosi-expand-archive-ftvWY5fq/PathTools-3.40/lib/File/Spec/Cygwin.pm
No license file was found, but licenses were detected in source scan.

=head1 AUTHOR

o.flebbe@gmx.de

=head1 COPYRIGHT

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it under the same terms as Perl itself.

=head1 SEE ALSO

See L<File::Spec> and L<File::Spec::Unix>. This package overrides the
implementation of these methods, not the semantics.

=cut

Found in path(s):
* /opt/cola/permits/1150897886_1634081776.87/0/perl-PathTools-3.40-5.amzn2.0.2.src.rpm-cosi-expand-archive-
  DFqo5q1V/PathTools-3.40.tar.gz-cosi-expand-archive-ftvWY5fq/PathTools-3.40/lib/File/Spec/Epoc.pm
No license file was found, but licenses were detected in source scan.

=head1 NAME

File::Spec::OS2 - methods for OS/2 file specs

=head1 SYNOPSIS

require File::Spec::OS2; # Done internally by File::Spec if needed

=head1 DESCRIPTION

See L<File::Spec> and L<File::Spec::Unix>. This package overrides the
implementation of these methods, not the semantics.

Amongst the changes made for OS/2 are...

=over 4

=item tmpdir

Modifies the list of places temp directory information is looked for.
Volumes can be drive letters or UNC sharenames (\server\share).

Found in path(s):
* /opt/cola/permits/1150897886_1634081776.87/0/perl-PathTools-3.40-5.amzn2.0.2.src.rpm-cosi-expand-archive-
DFqo5q1V/PathTools-3.40.tar.gz-cosi-expand-archive-ftvWY5fq/PathTools-3.40/lib/File/Spec/OS2.pm
No license file was found, but licenses were detected in source scan.

---
abstract: unknown
author:  
- unknown
build_requires:
  ExtUtils::MakeMaker: 0
configure_requires:
  ExtUtils::MakeMaker: 0
dynamic_config: 1
generated_by: 'ExtUtils::MakeMaker version 6.62, CPAN::Meta::Converter version 2.112150'
license: unknown
meta-spec:
  url: http://module-build.sourceforge.net/META-spec-v1.4.html
  version: 1.4
name: PathTools
no_index:
directory:  
  - t
  - inc
requires:
  Carp: 0
  File::Basename: 0
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Please submit bug reports and patches to perlbug@perl.org.

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 * for the details of why the BSD license is compatible with the
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 */
/*
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* SUCH DAMAGE.
*/

Found in path(s):
*/opt/cola/permits/1150897886_1634081776.87/0/perl-PathTools-3.40-5.amzn2.0.2.src.rpm-cosi-expand-archive-
DFqo5q1V/PathTools-3.40.tar.gz-cosi-expand-archive-ftvWY5fq/PathTools-3.40/Cwd.xs

No license file was found, but licenses were detected in source scan.

=back

=head1 EXIT CODES

If all your tests passed, Test::Builder will exit with zero (which is
normal). If anything failed it will exit with how many failed. If
you run less (or more) tests than you planned, the missing (or extras)
will be considered failures. If no tests were ever run Test::Builder
will throw a warning and exit with 255. If the test died, even after
having successfully completed all its tests, it will still be
considered a failure and will exit with 255.

So the exit codes are...

  0      all tests successful
  255    test died
  any other number  how many failed (including missing or extras)

If you fail more than 254 tests, it will be reported as 254.

=head1 NOTES

Test::More is B<explicitly> tested all the way back to perl 5.004.

=head1 BUGS and CAVEATS
=over 4

=item Threads

Test::More will only be aware of threads if "use threads" has been done
I<before> Test::More is loaded. This is ok:

    use threads;
    use Test::More;

This may cause problems:

    use Test::More
    use threads;

=item Making your own ok()

If you are trying to extend Test::More, don't. Use Test::Builder
instead.

=item The eq_* family has some caveats.

=item Test::Harness upgrade

no_plan and todo depend on new Test::Harness features and fixes. If
you're going to distribute tests that use no_plan or todo your
end-users will have to upgrade Test::Harness to the latest one on
CPAN. If you avoid no_plan and TODO tests, the stock Test::Harness
will work fine.

Installing Test::More should also upgrade Test::Harness.

=back

=head1 HISTORY

This is a case of convergent evolution with Joshua Pritikin's Test
module. I was largely unaware of its existence when I'd first
written my own ok() routines. This module exists because I can't
figure out how to easily wedge test names into Test's interface (along
with a few other problems).

The goal here is to have a testing utility that's simple to learn,
quick to use and difficult to trip yourself up with while still
providing more flexibility than the existing Test.pm. As such, the
names of the most common routines are kept tiny, special cases and
magic side-effects are kept to a minimum. WYSIWYG.

=head1 SEE ALSO

L<Test::Simple> if all this confuses you and you just want to write some tests. You can upgrade to Test::More later (it's forward compatible).

L<Test> is the old testing module. Its main benefit is that it has been distributed with Perl since 5.004_05.

L<Test::Harness> for details on how your test results are interpreted by Perl.

L<Test::Differences> for more ways to test complex data structures. And it plays well with Test::More.

L<Test::Class> is like XUnit but more perlish.

L<Test::Deep> gives you more powerful complex data structure testing.

L<Test::Unit> is XUnit style testing.

L<Test::Inline> shows the idea of embedded testing.

L<Bundle::Test> installs a whole bunch of useful test modules.

=head1 AUTHORS

Michael G Schwern E<lt>schwern@pobox.comE<gt> with much inspiration from Joshua Pritikin's Test module and lots of help from Barrie Slaymaker, Tony Bowden, blackstar.co.uk, chromatic and the perl-qa gang.

=head1 COPYRIGHT

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See F<http://www.perl.com/perl/misc/Artistic.html>

=cut

Found in path(s):
*/

No license file was found, but licenses were detected in source scan.

/*

ppport.h -- Perl/Pollution/Portability Version 3.20

Automatically created by Devel::PPPort running under perl 5.015005.

Do NOT edit this file directly! -- Edit PPPort.pm.PL and the
includes in parts/inc/ instead.

Use 'perldoc ppport.h' to view the documentation below.

ppport.h - Perl/Pollution/Portability version 3.20

=pod

=head1 NAME

ppport.h - Perl/Pollution/Portability version 3.20

=head1 SYNOPSIS

perl ppport.h [options] [source files]

Searches current directory for files if no [source files] are given

--help show short help

--version show version

--patch=file write one patch file with changes
--copy=suffix write changed copies with suffix
--diff=program use diff program and options

--compat-version=version provide compatibility with Perl version
--cplusplus accept C++ comments

--quiet don't output anything except fatal errors
--nodiag don't show diagnostics
--nohints don't show hints
--nochanges don't suggest changes
--nofilter don't filter input files
--strip strip all script and doc functionality from ppport.h

--list-provided list provided API
--list-unsupported list unsupported API
--api-info=name show Perl API portability information

=head1 COMPATIBILITY

This version of F<ppport.h> is designed to support operation with Perl installations back to 5.003, and has been tested up to 5.11.5.

=head1 OPTIONS

=head2 --help

Display a brief usage summary.

=head2 --version

Display the version of F<ppport.h>.

=head2 --patch=I<file>

If this option is given, a single patch file will be created if any changes are suggested. This requires a working diff program to be installed on your system.

=head2 --copy=I<suffix>

If this option is given, a copy of each file will be saved with the given suffix that contains the suggested changes. This does not require any external programs. Note that this does not automagically add a dot between the original filename and the suffix. If you want the dot, you have to include it in the option argument.

If neither C<--patch> or C<--copy> are given, the default is to simply print the diffs for each file. This requires either C<Text::Diff> or a C<diff> program to be installed.

=head2 --diff=I<program>

Manually set the diff program and options to use. The default is to use C<Text::Diff>, when installed, and output unified context diffs.
=head2 --compat-version=I<version>

Tell F<ppport.h> to check for compatibility with the given Perl version. The default is to check for compatibility with Perl version 5.003. You can use this option to reduce the output of F<ppport.h> if you intend to be backward compatible only down to a certain Perl version.

=head2 --cplusplus

Usually, F<ppport.h> will detect C++ style comments and replace them with C style comments for portability reasons. Using this option instructs F<ppport.h> to leave C++ comments untouched.

=head2 --quiet

Be quiet. Don't print anything except fatal errors.

=head2 --nodiag

Don't output any diagnostic messages. Only portability alerts will be printed.

=head2 --nohints

Don't output any hints. Hints often contain useful portability notes. Warnings will still be displayed.

=head2 --nochanges

Don't suggest any changes. Only give diagnostic output and hints unless these are also deactivated.

=head2 --nofilter

Don't filter the list of input files. By default, files not looking like source code (i.e. not *.xs, *.c, *.cc, *.cpp or *.h) are skipped.

=head2 --strip

Strip all script and documentation functionality from F<ppport.h>. This reduces the size of F<ppport.h> dramatically and may be useful if you want to include F<ppport.h> in smaller modules without increasing their distribution size too much.

The stripped F<ppport.h> will have a C<--unstrip> option that allows you to undo the stripping, but only if an appropriate C<Devel::PPPort>
module is installed.

=head2 --list-provided

Lists the API elements for which compatibility is provided by F<ppport.h>. Also lists if it must be explicitly requested, if it has dependencies, and if there are hints or warnings for it.

=head2 --list-unsupported

Lists the API elements that are known not to be supported by F<ppport.h> and below which version of Perl they probably won't be available or work.

=head2 --api-info=I<name>

Show portability information for API elements matching I<name>. If I<name> is surrounded by slashes, it is interpreted as a regular expression.

=head1 DESCRIPTION

In order for a Perl extension (XS) module to be as portable as possible across differing versions of Perl itself, certain steps need to be taken.

=item *

Including this header is the first major one. This alone will give you access to a large part of the Perl API that hasn't been available in earlier Perl releases. Use

perl ppport.h --list-provided

to see which API elements are provided by ppport.h.

=item *

You should avoid using deprecated parts of the API. For example, using global Perl variables without the C<PL_> prefix is deprecated. Also, some API functions used to have a C<perl_> prefix. Using this form is also deprecated. You can safely use the supported API, as F<ppport.h> will provide wrappers for older Perl versions.

=item *

If you use one of a few functions or variables that were not present in
earlier versions of Perl, and that can't be provided using a macro, you
have to explicitly request support for these functions by adding one or
more C<#define>s in your source code before the inclusion of F<ppport.h>.

These functions or variables will be marked C<explicit> in the list shown
by C<--list-provided>.

Depending on whether you module has a single or multiple files that
use such functions or variables, you want either C<static> or global
variants.

For a C<static> function or variable (used only in a single source
file), use:

    #define NEED_function
    #define NEED_variable

For a global function or variable (used in multiple source files),
use:

    #define NEED_function_GLOBAL
    #define NEED_variable_GLOBAL

Note that you mustn't have more than one global request for the
same function or variable in your project.

<table>
<thead>
<tr>
<th>Function / Variable</th>
<th>Static Request</th>
<th>Global Request</th>
</tr>
</thead>
<tbody>
<tr>
<td>PL_parser</td>
<td>NEED_PL_parser</td>
<td>NEED_PL_parser_GLOBAL</td>
</tr>
<tr>
<td>PL_signals</td>
<td>NEED_PL_signals</td>
<td>NEED_PL_signals_GLOBAL</td>
</tr>
<tr>
<td>eval_pv()</td>
<td>NEED_eval_pv</td>
<td>NEED_eval_pv_GLOBAL</td>
</tr>
<tr>
<td>grok_bin()</td>
<td>NEED_grok_bin</td>
<td>NEED_grok_bin_GLOBAL</td>
</tr>
<tr>
<td>grok_hex()</td>
<td>NEED_grok_hex</td>
<td>NEED_grok_hex_GLOBAL</td>
</tr>
<tr>
<td>grok_number()</td>
<td>NEED_grok_number</td>
<td>NEED_grok_number_GLOBAL</td>
</tr>
<tr>
<td>grok_numeric_radix()</td>
<td>NEED_grok_numeric_radix</td>
<td>NEED_grok_numeric_radix_GLOBAL</td>
</tr>
<tr>
<td>grok_oct()</td>
<td>NEED_grok_oct</td>
<td>NEED_grok_oct_GLOBAL</td>
</tr>
<tr>
<td>load_module()</td>
<td>NEED_load_module</td>
<td>NEED_load_module_GLOBAL</td>
</tr>
<tr>
<td>my_snprintf()</td>
<td>NEED_my_snprintf</td>
<td>NEED_my_snprintf_GLOBAL</td>
</tr>
<tr>
<td>my_sprintf()</td>
<td>NEED_my_sprintf</td>
<td>NEED_my_sprintf_GLOBAL</td>
</tr>
<tr>
<td>my_strlcat()</td>
<td>NEED_my_strlcat</td>
<td>NEED_my_strlcat_GLOBAL</td>
</tr>
<tr>
<td>my_strlcpy()</td>
<td>NEED_my_strlcpy</td>
<td>NEED_my_strlcpy_GLOBAL</td>
</tr>
<tr>
<td>newCONSTSUB()</td>
<td>NEED_newCONSTSUB</td>
<td>NEED_newCONSTSUB_GLOBAL</td>
</tr>
<tr>
<td>newRV_noinc()</td>
<td>NEED_newRV_noinc</td>
<td>NEED_newRV_noinc_GLOBAL</td>
</tr>
<tr>
<td>newSV_type()</td>
<td>NEED_newSV_type</td>
<td>NEED_newSV_type_GLOBAL</td>
</tr>
<tr>
<td>newSVpvn_flags()</td>
<td>NEED_newSVpvn_flags</td>
<td>NEED_newSVpvn_flags_GLOBAL</td>
</tr>
<tr>
<td>newSVpvn_share()</td>
<td>NEED_newSVpvn_share</td>
<td>NEED_newSVpvn_share_GLOBAL</td>
</tr>
<tr>
<td>pv_display()</td>
<td>NEED_pv_display</td>
<td>NEED_pv_display_GLOBAL</td>
</tr>
<tr>
<td>pv_escape()</td>
<td>NEED_pv_escape</td>
<td>NEED_pv_escape_GLOBAL</td>
</tr>
</tbody>
</table>
To avoid namespace conflicts, you can change the namespace of the
explicitly exported functions / variables using the C<DPPP_NAMESPACE>
macro. Just C<#define> the macro before including C<ppport.h>:

    #define DPPP_NAMESPACE MyOwnNamespace_
    #include "ppport.h"

The default namespace is C<DPPP_>.

=back

The good thing is that most of the above can be checked by running
F<ppport.h> on your source code. See the next section for
details.

=head1 EXAMPLES

To verify whether F<ppport.h> is needed for your module, whether you
should make any changes to your code, and whether any special defines
should be used, F<ppport.h> can be run as a Perl script to check your
source code. Simply say:

    perl ppport.h

The result will usually be a list of patches suggesting changes
that should at least be acceptable, if not necessarily the most
efficient solution, or a fix for all possible problems.

If you know that your XS module uses features only available in
newer Perl releases, if you're aware that it uses C++ comments,
and if you want all suggestions as a single patch file, you could
use something like this:

    perl ppport.h --compat-version=5.6.0 --cplusplus --patch=test.diff

If you only want your code to be scanned without any suggestions
for changes, use:

perl ppport.h --nochanges

You can specify a different C<diff> program or options, using the C<--diff> option:

perl ppport.h --diff='diff -C 10'

This would output context diffs with 10 lines of context.

If you want to create patched copies of your files instead, use:

perl ppport.h --copy=.new

To display portability information for the C<newSVpvn> function, use:

perl ppport.h --api-info=newSVpvn

Since the argument to C<--api-info> can be a regular expression, you can use

perl ppport.h --api-info=/_nomg$/

to display portability information for all C<_nomg> functions or

perl ppport.h --api-info=/

to display information for all known API elements.

=head1 BUGS

If this version of F<ppport.h> is causing failure during the compilation of this module, please check if newer versions of either this module or C<Devel::PPPort> are available on CPAN before sending a bug report.

If F<ppport.h> was generated using the latest version of C<Devel::PPPort> and is causing failure of this module, please file a bug report using the CPAN Request Tracker at L<http://rt.cpan.org/>.

Please include the following information:

=over 4

=item 1.
The complete output from running "perl -V"

=item 2.

This file.

=item 3.

The name and version of the module you were trying to build.

=item 4.

A full log of the build that failed.

=item 5.

Any other information that you think could be relevant.

=back

For the latest version of this code, please get the C<Devel::PPPort> module from CPAN.

=head1 COPYRIGHT

Version 3.x, Copyright (c) 2004-2010, Marcus Holland-Moritz.

Version 2.x, Copyright (C) 2001, Paul Marquess.

Version 1.x, Copyright (C) 1999, Kenneth Albanowski.

This program is free software; you can redistribute it and/or modify it under the same terms as Perl itself.

=head1 SEE ALSO

See L<Devel::PPPort>.

=cut

use strict;

# Disable broken TRIE-optimization
BEGIN { eval '$_RE_TRIE_MAXBUF = -1' if $] >= 5.009004 && $] <= 5.009005 }

my $VERSION = 3.20;

my %opt = (}
quiet => 0,
diag => 1,
hints => 1,
changes => 1,
cplusplus => 0,
filter => 1,
strip => 0,
version => 0,
);

my($ppport) = $0 =~ /\([0-9.]+)/;
my $LF = '(?:\r\n|\[\r\n\])'; # line feed
my $HS = "[ 	]";         # horizontal whitespace

# Never use C comments in this file!
my $ccs = '/.*';
my $cce = '*./';
my $rccs = quotemeta $ccs;
my $rcce = quotemeta $cce;

eval {
    require Getopt::Long;
    Getopt::Long::GetOptions($%opt, qw(
        help quiet diag! filter! hints! changes! cplusplus strip version
        patch=s copy=s diff=s compat-version=s
        list-provided list-unsupported api-info=s
    )) or usage();
};

if ($@ and grep /^-/, @ARGV) {
    usage() if "$ARGV" =~ /^--?h(?:elp)?$/;
    die "Getopt::Long not found. Please don't use any options.
";
}

if ($opt{version}) {
    print "This is $0 $VERSION."
    exit 0;
}

usage() if $opt{help};
strip() if $opt{strip};

if (exists $opt{compat-version}) {
    my($r,$v,$s) = eval { parse_version($opt{compat-version}) };
    if ($@) {
        die "Invalid version number format: '$opt{compat-version}'\n";
    }
    die "Only Perl 5 is supported\n" if $r != 5;
die "Invalid version number: $opt{'compat-version'}\n" if $v >= 1000 || $s >= 1000;
$opt{'compat-version'} = sprintf "%d.%03d%03d", $r, $v, $s;
} else {
$opt{'compat-version'} = 5;
}

my %API = map { /^(\w+)\|([^|]*)\|([^|]*)\|([^|]*)$/ ? ( $1 => {
( $2                 ? ( base => $2 ) : ()),
( $3                 ? ( todo  => $3 ) : ()),
(index($4, 'v') >= 0 ? ( varargs => 1 ) : ()),
(index($4, 'p') >= 0 ? ( provided => 1 ) : ()),
(index($4, 'n') >= 0 ? ( nothxarg => 1 ) : ()),
} ) : die "invalid spec: $._" } qw(
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CopSTASHPV_set|5.006000||p
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</table>
yyerror|||
yylex|||
yyparse|||
yyunlex|||
yywarn|||
);
if (exists $opt{'list-unsupported'}) {
my $f;
for $f (sort { lc $a cmp lc $b } keys %API) {
next unless $API{$f}{todo};
print "$f ", '.'x(40-length($f)), " ", format_version($API{$f}{todo}), "\n";
}
exit 0;
}
# Scan for possible replacement candidates
my(%replace, %need, %hints, %warnings, %depends);
my $replace = 0;
my($hint, $define, $function);
sub find_api
{
my $code = shift;
$code =~ s{
/ (?: \*[^*]*\*+(?:[^$ccs][^*]*\*+)* / | /[^\r\n]*)
| "[^"\\]*(?:\\.[^"\\]*)*"
| '[^'\\]*(?:\\.[^'\\]*)*' }{}egsx;
grep { exists $API{$_} } $code =~ /(\w+)/mg;
}
while (<DATA>) {
if ($hint) {
my $h = $hint->[0] eq 'Hint' ? \%hints : \%warnings;
if (m{^\s*\*\s(.*?)\s*$}) {
for (@{$hint->[1]}) {
$h->{$_} ||= ''; # suppress warning with older perls
$h->{$_} .= "$1\n";
}
}
else { undef $hint }
}
$hint = [$1, [split /,?\s+/, $2]]
if m{^\s*$rccs\s+(Hint|Warning):\s+(\w+(?:,?\s+\w+)*)\s*$};
if ($define) {

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if ($define->[1] =~ /\\$/) {
$define->[1] .= $_;
}
else {
if (exists $API{$define->[0]} && $define->[1] !~ /^DPPP_\(/) {
my @n = find_api($define->[1]);
push @{$depends{$define->[0]}}, @n if @n
}
undef $define;
}
}
$define = [$1, $2] if m{^\s*#\s*define\s+(\w+)(?:\([^)]*\))?\s+(.*)};
if ($function) {
if (/^}/) {
if (exists $API{$function->[0]}) {
my @n = find_api($function->[1]);
push @{$depends{$function->[0]}}, @n if @n
}
undef $function;
}
else {
$function->[1] .= $_;
}
}
$function = [$1, ''] if m{^DPPP_\(my_(\w+)\)};
$replace = $1 if m{^\s*$rccs\s+Replace:\s+(\d+)\s+$rcce\s*$};
$replace{$2} = $1 if $replace and m{^\s*#\s*define\s+(\w+)(?:\([^)]*\))?\s+(\w+)};
$replace{$2} = $1 if m{^\s*#\s*define\s+(\w+)(?:\([^)]*\))?\s+(\w+).*$rccs\s+Replace\s+$rcce};
$replace{$1} = $2 if m{^\s*$rccs\s+Replace (\w+) with (\w+)\s+$rcce\s*$};
if (m{^\s*$rccs\s+(\w+(\s*,\s*\w+)*)\s+depends\s+on\s+(\w+(\s*,\s*\w+)*)\s+$rcce\s*$}) {
my @deps = map { s/\s+//g; $_ } split /,/, $3;
my $d;
for $d (map { s/\s+//g; $_ } split /,/, $1) {
push @{$depends{$d}}, @deps;
}
}
$need{$1} = 1 if m{^#if\s+defined\(NEED_(\w+)(?:_GLOBAL)?\)};
}
for (values %depends) {
my %s;
$_ = [sort grep !$s{$_}++, @$_];

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if (exists $opt{'api-info'}) {
    my $f;
    my $count = 0;
    my $match = $opt{'api-info'} =~ m!/^\/(.*)/$! ? $1 : "^\Q$opt{'api-info'}\E/$!; 
    for $f (sort { lc $a cmp lc $b } keys %API) {
        next unless $f =~ /$match/;
        print "\n=== $f ===\n\n";
        my $info = 0;
        if ($API{$f}{base} || $API{$f}{todo}) {
            my $base = format_version($API{$f}{base} || $API{$f}{todo});
            print "Supported at least starting from perl-$base.\n";
            $info++;
        }
        if ($API{$f}{provided}) {
            my $todo = $API{$f}{todo} ? format_version($API{$f}{todo}) : "5.003";
            print "Support by $ppport provided back to perl-$todo.\n";
            print "Support needs to be explicitly requested by NEED_$f.\n" if exists $need{$f};
            print "Depends on: \join{ ', ', @{$depend{$f}} }\n" if exists $depend{$f};
            print "\n\n$warnings{$f}" if exists $warnings{$f};
            $info++;
        }
        print "\nWARNING:\n$warnings{$f}" if exists $warnings{$f};
        $count++;
    }
    if (exists $opt{'list-provided'}) {
        my $f;
        for $f (sort { lc $a cmp lc $b } keys %API) {
            next unless $API{$f}{provided};
            my @flags;
            push @flags, 'explicit' if exists $need{$f};
            push @flags, 'depend' if exists $depend{$f};
            push @flags, 'hint' if exists $hint{$f};
            push @flags, 'warning' if exists $warnings{$f};
            my $flags = @flags ? \join{ ', ', @flags } : "";
            print "$f\n$flags\n";
        }
    }
    $count or print "Found no API matching $opt{'api-info'}.\n";
    $count++;
    $count;
}
if (exists $opt{'list-provided'}) {
    my $f;
    for $f (sort { lc $a cmp lc $b } keys %API) {
        next unless $API{$f}{provided};
        my @flags;
        push @flags, 'explicit' if exists $need{$f};
        push @flags, 'depend' if exists $depend{$f};
        push @flags, 'hint' if exists $hint{$f};
        push @flags, 'warning' if exists $warnings{$f};
        my $flags = @flags ? \join{ ', ', @flags } : "";
        print "$f\n$flags\n";
    }
exit 0;
}
my @files;
my @srcext = qw( .xs .c .h .cc .cpp -c.inc -xs.inc );
my $srcext = join '|', map { quotemeta $_ } @srcext;
if (@ARGV) {
my %seen;
for (@ARGV) {
if (-e) {
if (-f) {
push @files, $_ unless $seen{$_}++;
}
else { warn "'$_' is not a file.\n" }
}
else {
my @new = grep { -f } glob $_
or warn "'$_' does not exist.\n";
push @files, grep { !$seen{$_}++ } @new;
}
}
}
else {
eval {
require File::Find;
File::Find::find(sub {
$File::Find::name =~ /($srcext)$/i
and push @files, $File::Find::name;
}, '.');
};
if ($@) {
@files = map { glob "*$_" } @srcext;
}
}
if (!@ARGV || $opt{filter}) {
my(@in, @out);
my %xsc = map { /(.*)\.xs$/ ? ("$1.c" => 1, "$1.cc" => 1) : () } @files;
for (@files) {
my $out = exists $xsc{$_} || /\b\Q$ppport\E$/i || !/($srcext)$/i;
push @{ $out ? \@out : \@in }, $_;
}
if (@ARGV && @out) {
warning("Skipping the following files (use --nofilter to avoid this):\n| ", join "\n| ", @out);
}
@files = @in;
}
die "No input files given!\n" unless @files;
my(%files, %global, %revreplace);

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%revreplace = reverse %replace;
my $filename;
my $patch_opened = 0;
for $filename (@files) {
unless (open IN, "<$filename") {
warn "Unable to read from $filename: $!\n";
next;
}
info("Scanning $filename ...");
my $c = do { local $/; <IN> };
close IN;
my %file = (orig => $c, changes => 0);
# Temporarily remove C/XS comments and strings from the code
my @ccom;
$c =~ s{
( ^$HS*\#$HS*include\b[^\r\n]+\b(?:\Q$ppport\E|XSUB\.h)\b[^\r\n]*
| ^$HS*\#$HS*(?:define|elif|if(?:def)?)\b[^\r\n]* )
| ( ^$HS*\#[^\r\n]*
| "[^"\\]*(?:\\.[^"\\]*)*"
| '[^'\\]*(?:\\.[^'\\]*)*'
| / (?: \*[^*]*\*+(?:[^$ccs][^*]*\*+)* / | /[^\r\n]* ) )
}{ defined $2 and push @ccom, $2;
defined $1 ? $1 : "$ccs$#ccom$cce" }mgsex;
$file{ccom} = \@ccom;
$file{code} = $c;
$file{has_inc_ppport} = $c =~ /^$HS*#$HS*include[^\r\n]+\b\Q$ppport\E\b/m;
my $func;
for $func (keys %API) {
my $match = $func;
$match .= "|$revreplace{$func}" if exists $revreplace{$func};
if ($c =~ /\b(?:Perl_)?($match)\b/) {
$file{uses_replace}{$1}++ if exists $revreplace{$func} && $1 eq $revreplace{$func};
$file{uses_Perl}{$func}++ if $c =~ /\bPerl_$func\b/;
if (exists $API{$func}{provided}) {
$file{uses_provided}{$func}++;
if (!exists $API{$func}{base} || $API{$func}{base} > $opt{'compat-version'}) {
$file{uses}{$func}++;
my @deps = rec_depend($func);
if (@deps) {

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$file{uses_deps}{$func} = @{$deps};
for (@deps) {
    $file{uses}[$_ ] = 0 unless exists $file{uses}[$_ ];
}

for ($func, @deps) {
    $file{needs}[$_ ] = 'static' if exists $need[$_ ];
}

if (exists $API{$func}{todo} && $API{$func}{todo} > $opt{`compat-version'}) {
    if ($c =~ /\b$func\b/) {
        $file{uses_todo}{$func}++;
    }
}

while ($c =~ /^\$HS*#$HS*define\$HS+(NEED_(\w+?)(_GLOBAL)?)(\b/mg) {
    if (exists $need{$2}) {
        $file{defined $3 ? 'needed_global' : 'needed_static'}{$2}++;
    }
    else { warning("Possibly wrong #define $1 in $filename") }
}

for (qw(uses needs uses_todo needed_global needed_static)) {
    for $func (keys %{$file{$_}}) {
        push @{$global{$_}{$func}}, $filename;
    }
}

$files{$filename} = %$file;

# Globally resolve NEED_\_'s
my $need;
for $need (keys %{$global{needs}}) {
    if (@{$global{needs}{$need}} > 1) {
        my @targets = @{$global{needs}{$need}};
        my @t = grep $files{$_ }{needed_global}[$need], @targets;
        @targets = @t if @t;
        @t = grep /xs$/i, @targets;
        @targets = @t if @t;
        my $target = shift @targets;
        $files{$target}{needs}{$need} = 'global';
        for (@{$global{needs}{$need}}) {
            $files{$_ }{needs}{$need} = 'extern' if $_ ne $target;
        }
    }
}
for $filename (@files) {
    exists $files{$filename} or next;

    info("=== Analyzing $filename ===");

    my %file = %{$files{$filename}};
    my $func;
    my $c = $file{code};
    my $warnings = 0;

    for $func (sort keys %{$file{uses_Perl}}) {
        if ($API{$func}{varargs}) {
            unless ($API{$func}{nothxarg}) {
                my $changes = ($c =~ s{\b(Perl_$func\s*\(\s*)(\(|\[\^\s)\)*\)\(\[\^\s)\)\s*)\s*$\s*)\s*$\s*)}{ $1 . ($2 eq ') ? 'aTHX' : 'aTHX_ ' . $2 }ge);
                if ($changes) {
                    warning("Doesn't pass interpreter argument aTHX to Perl_$func");
                    $file{changes} += $changes;
                }
            } else {
                warning("Uses Perl_$func instead of $func");
                $file{changes} += ($c =~ s{\bPerl_$func\s*\(\s*\}\(\[\^\s)\)*\)\(\[\^\s)\)\s*$\s*)\s*$\s*)}{ $func$1{}}g);
            }
        } else {
            warning("Uses Perl_$func instead of $func");
            $file{changes} += ($c =~ s{\bPerl_$func\s*\(\s*\}\(\[\^\s)\)*\)\(\[\^\s)\)\s*$\s*)\s*$\s*)}{ $func$1{}}g);
        }
    }

    for $func (sort keys %{$file{uses_replace}}) {
        warning("Uses $func instead of $replace{$func}");
        $file{changes} += ($c =~ s{\b$func\s*\(\s*\}\(\[\^\s)\)\)*\)\(\[\^\s)\)\s*$\s*)\s*$\s*)}{ $func$1{}}g);
    }

    for $func (sort keys %{$file{uses_provided}}) {
        if ($file{uses}{$func}) {
            if (exists $file{uses_deps}{$func}) {
                diag("Uses $func, which depends on ", join(',', @{$file{uses_deps}{$func}}));
            } else {
                diag("Uses $func");
            }
            $warnings += hint($func);
        }
    }
}
unless ($opt{quiet}) {
  for $func (sort keys %{$file{uses_todo}}) {
    print "*** WARNING: Uses $func, which may not be portable below perl ",
      format_version($API{$func}{todo}), ", even with $ppport";
    $warnings++;
  }
}

for $func (sort keys %{$file{needed_static}}) {
  my $message = ";
  if (not exists $file{uses}($func)) {
    $message = "No need to define NEED_$func if $func is never used";
  } elsif (exists $file{needs}($func) && $file{needs}($func) ne 'static') {
    $message = "No need to define NEED_$func when already needed globally";
  } if ($message) {
    diag($message);
    $file{changes} += ($c =~ s/^$HS*#$HS*define$HS+NEED_$func\b.*$LF//mg);
  }
}

for $func (sort keys %{$file{needed_global}}) {
  my $message = ";
  if (not exists $global{uses}($func)) {
    $message = "No need to define NEED_$func\$_GLOBAL if $func is never used";
  } elsif (exists $file{needs}($func)) {
    if ($file{needs}($func) eq 'extern') {
      $message = "No need to define NEED_$func\$_GLOBAL when already needed globally";
    } elsif ($file{needs}($func) eq 'static') {
      $message = "No need to define NEED_$func\$_GLOBAL when only used in this file";
    } 
  } if ($message) {
    diag($message);
    $file{changes} += ($c =~ s/^$HS*#$HS*define$HS+NEED_$func\$_GLOBAL\b.*$LF//mg);
  }
}

$file{needs_inc_ppport} = keys %{$file{uses}};

if ($file{needs_inc_ppport}) {
  my $pp = ";";

  for $func (sort keys %{$file{needs}}) {
    my $type = $file{needs}($func);
    

next if $type eq 'extern';
my $suffix = $type eq 'global'? '_GLOBAL': '';
unless (exists $file{'needed_'.$type}{'$func'}) {
    if ($type eq 'global') {
        diag("Files [@ {global{needs}{'$func'}}] need $func, adding global request");
    } else {
        diag("File needs $func, adding static request");
    }
    $pp .= "#define NEED_$func$suffix\n";
}

if ($pp && ($c =~ s/^(?=$HS*#$HS*define$HS+NEED_\w+/)$pp/m)) {
    $pp = "";
    $file{changes}++;
}

unless ($file{has_inc_ppport}) {
    diag("Needs to include 'ppport'");
    $pp .= qq(#include "$ppport\n")
}
if ($pp) {
    $file{changes} += ($c =~ s/^(?=$HS*#$HS*define$HS+NEED_\w+.*?)/$1$pp/ms)
        || ($c =~ s/^(?=$HS*#$HS*include.*Q$ppport\E)/$pp/m)
        || ($c =~ s/^(?=$HS*#$HS*include.*XSUB.*\s*?)/$1$pp/m)
        || ($c =~ s/^/$pp/);
} else {
    if ($file{has_inc_ppport}) {
        diag("No need to include 'ppport'");
        $file{changes} += ($c =~ s/\Q$ppport\E.*?$LF//m);
    }
}

# put back in our C comments
my $six;
my $cppc = 0;
my @ccom = @{$file{ccom}};
for $ix (0 .. $#ccom) {
    if (!$opt{cplusplus} && $ccom[$ix] =~ s!^//!!) {
        $cppc++;
        $file{changes} += $c =~ s/$rccs$ix$rcce/$ccs$ccom[$ix] $cce/;
    } else {
        $c =~ s/$rccs$ix$rcce/$ccom[$ix]/;
    }
}
if ($cppc) {
    my $s = $cppc != 1 ? 's' : ';
    warning("Uses $cppc C++ style comment$s, which is not portable");
}

my $s = $warnings != 1 ? 's' : ';
my $warn = $warnings ? " ($warnings warning$s)" : '';
info("Analysis completed$warn");

if ($file{changes}) {
    if (exists $opt{copy}) {
        my $newfile = "$filename$opt{copy}";
        if (-e $newfile) {
            error("$newfile' already exists, refusing to write copy of 'filename'");
        } else {
            local *F;
            if (open F, ">$newfile") {
                info("Writing copy of 'filename' with changes to 'newfile'");
                print F $c;
                close F;
            } else {
                error("Cannot open '$newfile' for writing: $!");
            }
        }
    } elsif (exists $opt{patch} || $opt{changes}) {
        if (exists $opt{patch}) {
            unless ($patch_opened) {
                if (open PATCH, ">$opt{patch}") {
                    $patch_opened = 1;
                } else {
                    error("Cannot open '$opt{patch}' for writing: $!");
                    delete $opt{patch};
                    $opt{changes} = 1;
                    goto fallback;
                }
            }
            mydiff(*PATCH, $filename, $c);
        } else {
            fallback:
            info("Suggested changes:");
        }
    }
}
mydiff("STDOUT", $filename, $c);
}

else {
  my $s = $file{changes} == 1 ? '' : 's';
  info("$file{changes} potentially required change$s detected");
}

else {
  info("Looks good");
}

else {
  info("Looks good");
}

close PATCH if $patch_opened;

exit 0;

sub try_use {
  eval "use @_;": return $@
}

sub mydiff {
  local *F = shift;
  my($file, $str) = @_;
  my $diff;

  if (exists $opt{diff}) {
    $diff = run_diff($opt{diff}, $file, $str);
  }

  if (!defined $diff and try_use('Text::Diff')) {
    $diff = Text::Diff::diff($file, $str, { STYLE => 'Unified' });
    $diff = "--- $file
+++ $file.patched
HEADER
HEAD
" . $diff;
  }

  if (!defined $diff) {
    $diff = run_diff('diff -u', $file, $str);
  }

  if (!defined $diff) {
    $diff = run_diff('diff', $file, $str);
  }

  if (!defined $diff) {
    error("Cannot generate a diff. Please install Text::Diff or use --copy.");
  }

  if (!defined $diff) {
    $diff = run_diff('diff', $file, $str);
  }

  if (!defined $diff) {
    error("Cannot generate a diff. Please install Text::Diff or use --copy.");
  }

  if (!defined $diff) {
    $diff = run_diff('diff', $file, $str);
  }

  if (!defined $diff) {
    error("Cannot generate a diff. Please install Text::Diff or use --copy.");
  }

  if (!defined $diff) {
    $diff = run_diff('diff', $file, $str);
  }

  if (!defined $diff) {
    error("Cannot generate a diff. Please install Text::Diff or use --copy.");
print F $diff;
}

sub run_diff
{
    my($prog, $file, $str) = @_;
    my $tmp = 'dppptemp';
    my $suf = 'aaa';
    my $diff = ";
    local *F;

    while (-e "$tmp.$suf") { $suf++ }
    $tmp = "$tmp.$suf";

    if (open F, ">$tmp") {
        print F $str;
        close F;

        if (open F, "$prog $file $tmp |") {
            while (<F>) {
                s/$tmp/$file.patched/;
                $diff .= $_;
            }
            close F;
            unlink $tmp;
            return $diff;
        }
        else {
            error("Cannot open '$tmp' for writing: $!");
        }
    }

    unlink $tmp;
}
else {
    return undef;
}

sub rec_depend
{
    my($func, $seen) = @_;}
return () unless exists $depends{$func};
$seen = {%{$seen||{}}};
return () if $seen->{$func}++;
my %s;
grep !s{$_}++, map { ($_, rec_depend($_, $seen)) } @{$depends{$func}};

sub parse_version
{
    my $ver = shift;

    if ($ver =~ /^\d+.(\d+).(\d+)$/) {
        return ($1, $2, $3);
    }
    elsif ($ver !~ /^\d+\([\d_]+$/) {
        die "cannot parse version $ver\n"
    }

    $ver =~ s/_//g;
    $ver =~ s/$/000000/;

    my($r,$v,$s) = $ver =~ /\d+.(\d)[3]\.\d[3]/;

    $v = int $v;
    $s = int $s;

    if ($r < 5 || ($r == 5 && $v < 6)) {
        if ($s % 10) {
            die "cannot parse version $ver\n"
        }
    }

    return ($r, $v, $s);
}

sub format_version
{
    my $ver = shift;

    $ver =~ s/$/000000/;
    my($r,$v,$s) = $ver =~ /\d+/(\d[3])/.\d[3]/;

    $v = int $v;
    $s = int $s;

    if ($r < 5 || ($r == 5 && $v < 6)) {
        if ($s % 10) {
            die "invalid version $ver\n"
        }
        $s /= 10;
    }

    $ver = sprintf "%d.%03d", $r, $v;
    $s > 0 and $ver .= sprintf "_.%02d", $s;
return $ver;

}

return sprintf "%.d%.d%.d", $r, $v, $s;

}

sub info
{
$opt{quiet} and return;
print @_, \n;
}

sub diag
{
$opt{quiet} and return;
$opt{diag} and print @_, \n;
}

sub warning
{
$opt{quiet} and return;
print "*** ", @_, \n;
}

sub error
{
print "*** ERROR: ", @_, \n;
}

my %given_hints;
my %given_warnings;
sub hint
{
$opt{quiet} and return;
my $func = shift;
my $rv = 0;
if (exists $warnings{$func} && !$given_warnings{$func}++) {
    my $warn = $warnings{$func};
    $warn =~ s!^!*** !mg;
    print "*** WARNING: $func\n", $warn;
    $rv++;
}
if ($opt{hints} && exists $hints{$func} && !$given_hints{$func}++) {
    my $hint = $hints{$func};
    $hint =~ s/^/   /mg;
    print "    -- hint for $func ---\n", $hint;
}
sub usage
{
    my($usage) = do { local(@ARGV,$/)=($0); <> } =~ /^=head\d$HS+SYNOPSIS\s*^(.*)\s*^=/ms;
    my %M = ( 'I' => '*' );
    $usage =~ s/\s*perl\s+\S+/$^[X] $0/;
    $usage =~ s/\([A-Z]\)<([^>]+)>/$M{$1}$2$M{$1}/g;
    print <<ENDUSAGE;
Usage: $usage
See perldoc $0 for details.
ENDUSAGE
exit 2;
}

sub strip
{
    my $self = do { local(@ARGV,$/)=($0); <> };
    my($copy) = $self =~ /^=head\d\s+COPYRIGHT\s*^(.*)^=\w+/ms;
    $copy =~ s/^(?=\S+)/    /gms;
    $self =~ s/^$HS+Do NOT edit.*?(?=^-)/$copy/ms;
    $self =~ s/^SKIP.*(?=^__DATA__/SKIP
    if (@ARGV && $ARGV[0] eq '--unstrip') {
        eval { require Devel::PPPort };
        \$/@ and die "Cannot require Devel::PPPort, please install:\n";
        if (eval \$Devel::PPPort::VERSION < \$VERSION) {
            die "$0 was originally generated with Devel::PPPort \$VERSION:\n"
            . "Your Devel::PPPort is only version \$Devel::PPPort::VERSION:\n"
            . "Please install a newer version, or --unstrip will not work:\n"
        }
        Devel::PPPort::WriteFile($0);
        exit 0;
    }
    print <<END;
Sorry, but this is a stripped version of $0.

To be able to use its original script and doc functionality,
please try to regenerate this file using:

\$^[X] $0 --unstrip
my($pl, $c) = $self =~ /(.*^__DATA__)(.*)/ms;
$c =~ s{/ (?: \*[^\*]*\*+(?:[^$ccs\]^\[^$ccs\]*\*+)* / | /[^\s\r\n]+)| ( "[^"\\]*(?:\\.[^"\\]*)*" | '\[^'\\]*(?:\\.[^'\\]*)*' ) | ($HS+) }{ defined $2 ? ' ' : ($1 || '') }gsex;
$c =~ s!\s+$!!mg;
$c =~ s!^$LF!!mg;
$c =~ s!^\s*#\s*!#!mg;
$c =~ s!^\s+!!mg;
open OUT, ">$0" or die "cannot strip $0: $!
"
print OUT "$pl$c
";
exit 0;

__DATA__
*/

Found in path(s):
* /opt/cola/permits/1150897886_1634081776.87/0/perl-PathTools-3.40-5.amzn2.0.2.src.rpm-cosi-expand-archive-
DFqo5q1V/PathTools-3.40.tar.gz-cosi-expand-archive-ftvWY5fq/PathTools-3.40/ppport.h

No license file was found, but licenses were detected in source scan.

=head1 NAME

Cwd - get pathname of current working directory

=head1 SYNOPSIS

use Cwd;
my $dir = getcwd;

use Cwd 'abs_path';
my $abs_path = abs_path($file);

=head1 DESCRIPTION

This module provides functions for determining the pathname of the
current working directory. It is recommended that getcwd (or another
*cwd() function) be used in I<all> code to ensure portability.

By default, it exports the functions cwd(), getcwd(), fastcwd(), and
fastgetcwd() (and, on Win32, getdcwd()) into the caller's namespace.
getcwd and friends

Each of these functions are called without arguments and return the absolute path of the current working directory.

getcwd

my $cwd = getcwd();

Returns the current working directory.

Exposes the POSIX function getcwd(3) or re-implements it if it's not available.

cwd

my $cwd = cwd();

The cwd() is the most natural form for the current architecture. For most systems it is identical to `pwd` (but without the trailing line terminator).

fastcwd

my $cwd = fastcwd();

A more dangerous version of getcwd(), but potentially faster.

It might conceivably chdir() you out of a directory that it can’t chdir() you back into. If fastcwd encounters a problem it will return undef but will probably leave you in a different directory. For a measure of extra security, if everything appears to have worked, the fastcwd() function will check that it leaves you in the same directory that it started in. If it has changed it will C<die> with the message "Unstable directory path, current directory changed unexpectedly". That should never happen.

fastgetcwd

my $cwd = fastgetcwd();

The fastgetcwd() function is provided as a synonym for cwd().

dcwd
my $cwd = getcwd();
my $cwd = getcwd('C:');

The getcwd() function is also provided on Win32 to get the current working directory on the specified drive, since Windows maintains a separate current working directory for each drive. If no drive is specified then the current drive is assumed.

This function simply calls the Microsoft C library _getcwd() function.

=head2 abs_path and friends

These functions are exported only on request. They each take a single argument and return the absolute pathname for it. If no argument is given they'll use the current working directory.

=item abs_path

my $abs_path = abs_path($file);

Uses the same algorithm as getcwd(). Symbolic links and relative-path components ("." and "..") are resolved to return the canonical pathname, just like realpath(3).

=item realpath

my $abs_path = realpath($file);

A synonym for abs_path().

=item fast_abs_path

my $abs_path = fast_abs_path($file);

A more dangerous, but potentially faster version of abs_path.

=head2 $ENV{PWD}

If you ask to override your chdir() built-in function,

use Cwd qw(chdir);
then your PWD environment variable will be kept up to date. Note that it will only be kept up to date if all packages which use chdir import it from Cwd.

=head1 NOTES

=item *

Since the path separators are different on some operating systems ('/' on Unix, ':' on MacPerl, etc...) we recommend you use the File::Spec modules wherever portability is a concern.

=item *

Actually, on Mac OS, the C<getcwd()>, C<fastgetcwd()> and C<fastcwd()> functions are all aliases for the C<cwd()> function, which, on Mac OS, calls `pwd`. Likewise, the C<abs_path()> function is an alias for C<fast_abs_path()>.

=back

=head1 AUTHOR

Originally by the perl5-porters.

Maintained by Ken Williams <KWILLIAMS@cpan.org>

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=head1 SEE ALSO

L<File::chdir>
=cut

Found in path(s):
* /opt/cola/permits/1150897886_1634081776.87/0/perl-PathTools-3.40-5.amzn2.0.2.src.rpm-cosi-expand-archive-
DFqo5qfV/PathTools-3.40.tar.gz-cosi-expand-archive-ftvW5fq/PathTools-3.40/Cwd.pm
No license file was found, but licenses were detected in source scan.

=head1 NAME

File::Spec - portably perform operations on file names

=head1 SYNOPSIS

use File::Spec;

$x=File::Spec->catfile('a', 'b', 'c');

which returns 'a/b/c' under Unix. Or:

use File::Spec::Functions;

$x = catfile('a', 'b', 'c');

=head1 DESCRIPTION

This module is designed to support operations commonly performed on file
specifications (usually called "file names", but not to be confused with the
contents of a file, or Perl's file handles), such as concatenating several
directory and file names into a single path, or determining whether a path
is rooted. It is based on code directly taken from MakeMaker 5.17, code
written by Andreas KE<ouml>nig, Andy Dougherty, Charles Bailey, Ilya
Zakharevich, Paul Schinder, and others.

Since these functions are different for most operating systems, each set of
OS specific routines is available in a separate module, including:

File::Spec::Unix
File::Spec::Mac
File::Spec::OS2
File::Spec::Win32
File::Spec::VMS

The module appropriate for the current OS is automatically loaded by
File::Spec. Since some modules (like VMS) make use of facilities available
only under that OS, it may not be possible to load all modules under all
operating systems.

Since File::Spec is object oriented, subroutines should not be called directly,
as in:

```
File::Spec::catfile('a','b');
```

but rather as class methods:

```
File::Spec->catfile('a','b');
```

For simple uses, L<File::Spec::Functions> provides convenient functional forms of these methods.

=head1 METHODS

=over 2

=item canonpath

```
X<canonpath>
```

No physical check on the filesystem, but a logical cleanup of a path.

```
$opath = File::Spec->canonpath( $path ) ;
```

Note that this does *not* collapse F<x/./y> sections into F<y>. This is by design. If F</foo> on your system is a symlink to F</bar/baz>, then F</foo/./quux> is actually F</bar/quux>, not F</quux> as a naive F<../>-removal would give you. If you want to do this kind of processing, you probably want C<Cwd>'s C<realpath()> function to actually traverse the filesystem cleaning up paths like this.

=item catdir

```
X<catdir>
```

Concatenate two or more directory names to form a complete path ending with a directory. But remove the trailing slash from the resulting string, because it doesn't look good, isn't necessary and confuses OS/2. Of course, if this is the root directory, don't cut off the trailing slash :-)

```
$opath = File::Spec->catdir( @directories ) ;
```

=item catfile

```
X<catfile>
```

Concatenate one or more directory names and a filename to form a complete path ending with a filename

```
$opath = File::Spec->catfile( @directories, $filename );
```
Returns a string representation of the current directory.

$curdir = File::Spec->curdir();

Returns a string representation of the null device.

$devnull = File::Spec->devnull();

Returns a string representation of the root directory.

$rootdir = File::Spec->rootdir();

Returns a string representation of the first writable directory from a list of possible temporary directories. Returns the current directory if no writable temporary directories are found. The list of directories checked depends on the platform; e.g. File::Spec::Unix checks C<$ENV{TMPDIR}> (unless taint is on) and F</tmp>.

$tmpdir = File::Spec->tmpdir();

Returns a string representation of the parent directory.

$updir = File::Spec->updir();

Given a list of file names, strip out those that refer to a parent directory. (Does not strip symlinks, only '.', '..', and equivalents.)

@paths = File::Spec->no_upwards( @paths );

=item case_tolerant
Returns a true or false value indicating, respectively, that alphabetic case is not or is significant when comparing file specifications. Cygwin and Win32 accept an optional drive argument.

```
$is_case_tolerant = File::Spec->case_tolerant();
```

=item file_name_is_absolute

Takes as its argument a path, and returns true if it is an absolute path.

```
$is_absolute = File::Spec->file_name_is_absolute( $path );
```

This does not consult the local filesystem on Unix, Win32, OS/2, or Mac OS (Classic). It does consult the working environment for VMS (see L<File::Spec::VMS/file_name_is_absolute>).

=item path

```
X<path>
```

Takes no argument. Returns the environment variable C<path> (or the local platform's equivalent) as a list.

```
@PATH = File::Spec->path();
```

=item join

```
X<join, path>
```

join is the same as catfile.

=item splitpath

```
X<splitpath> X<split, path>
```

Splits a path in to volume, directory, and filename portions. On systems with no concept of volume, returns "" for volume.

```
($volume,$directories,$file) =
    File::Spec->splitpath( $path );

($volume,$directories,$file) =
    File::Spec->splitpath( $path, $no_file );
```

For systems with no syntax differentiating filenames from directories, assumes that the last file is a path unless C<$no_file> is true or a trailing separator or F</.> or F</..> is present. On Unix, this means that C<$no_file> true makes this return ( "", $path, "" ).

The directory portion may or may not be returned with a trailing '/".

The results can be passed to L</catpath()> to get back a path equivalent to (usually identical to) the original path.

=item splitdir
X</splitdir> X</split, dir>

The opposite of L</catdir>.

@dirs = File::Spec-&gt;splitdir( $directories );

C</directories> must be only the directory portion of the path on systems that have the concept of a volume or that have path syntax that differentiates files from directories.

Unlike just splitting the directories on the separator, empty directory names (C</_dirs>) can be returned, because these are significant on some OSes.

=item catpath()

Takes volume, directory and file portions and returns an entire path. Under Unix, C</volume> is ignored, and directory and file are concatenated. A '/' is inserted if need be. On other OSes, C</volume> is significant.

$full_path = File::Spec-&gt;catpath( $volume, $directory, $file );

=item abs2rel
X</abs2rel> X</absolute, path> X</relative, path>

Takes a destination path and an optional base path returns a relative path from the base path to the destination path:

$rel_path = File::Spec-&gt;abs2rel( $path ) ;
$rel_path = File::Spec-&gt;abs2rel( $path, $base ) ;

If C</base> is not present or ", then L</Cwd::cwd()> is used. If C</base> is relative, then it is converted to absolute form using L</rel2abs()> . This means that it is taken to be relative to L</Cwd::cwd()> .

On systems with the concept of volume, if C</path> and C</base> appear to be on two different volumes, we will not attempt to resolve the two paths, and we will instead simply return C</path> . Note that previous versions of this module ignored the volume of C</base>, which resulted in garbage results part of the time.

On systems that have a grammar that indicates filenames, this ignores the C</base> filename as well. Otherwise all path components are assumed to be
directories.

If C<$path> is relative, it is converted to absolute form using L</rel2abs()>.
This means that it is taken to be relative to L<Cwd::cwd()>.

No checks against the filesystem are made. On VMS, there is interaction with the working environment, as logicals and macros are expanded.

Based on code written by Shigio Yamaguchi.

=item rel2abs()
X<rel2abs> X<absolute, path> X<relative, path>

Converts a relative path to an absolute path.

    $abs_path = File::Spec->rel2abs( $path ) ;
    $abs_path = File::Spec->rel2abs( $path, $base ) ;

If C<$base> is not present or ", then L<Cwd::cwd()> is used. If C<$base> is relative, then it is converted to absolute form using L</rel2abs()>.
This means that it is taken to be relative to L<Cwd::cwd()>.

On systems with the concept of volume, if C<$path> and C<$base> appear to be on two different volumes, we will not attempt to resolve the two paths, and we will instead simply return C<$path>. Note that previous versions of this module ignored the volume of C<$base>, which resulted in garbage results part of the time.

On systems that have a grammar that indicates filenames, this ignores the C<$base> filename as well. Otherwise all path components are assumed to be directories.

If C<$path> is absolute, it is cleaned up and returned using L</canonpath>.

No checks against the filesystem are made. On VMS, there is interaction with the working environment, as logicals and macros are expanded.

Based on code written by Shigio Yamaguchi.

=back

For further information, please see L<File::Spec::Unix>, L<File::Spec::Mac>, L<File::Spec::OS2>, L<File::Spec::Win32>, or L<File::Spec::VMS>.

=head1 SEE ALSO
=head1 AUTHOR

Currently maintained by Ken Williams C<< <KWILLIAMS@cpan.org> >>.

The vast majority of the code was written by
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VMS support by Charles Bailey C<< <bailey@newman.upenn.edu> >>.
OS/2 support by Ilya Zakharevich C<< <ilya@math.ohio-state.edu> >>.
Mac support by Paul Schinder C<< <schinder@pobox.com> >>, and
Thomas Wegner C<< <wegner_thomas@yahoo.com> >>.
abs2rel() and rel2abs() written by Shigio Yamaguchi C<< <shigio@tamacom.com> >>,
modified by Barrie Slaymaker C<< <barries@slaysys.com> >>.
splitpath(), splitdir(), catpath() and catdir() by Barrie Slaymaker.

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* /opt/cola/permits/1150897886_1634081776.87/0/perl-PathTools-3.40-5.amzn2.0.2.src.rpm-cosi-expand-archive-
DFqo5q1V/PathTools-3.40.tar.gz-cosi-expand-archive-ftvWY5fq/PathTools-3.40/lib/File/Spec.pm
No license file was found, but licenses were detected in source scan.

=back

Test::Simple will start by printing number of tests run in the form
"1..M" (so "1..5" means you're going to run 5 tests). This strange
format lets Test::Harness know how many tests you plan on running in
case something goes horribly wrong.

If all your tests passed, Test::Simple will exit with zero (which is
normal). If anything failed it will exit with how many failed. If
you run less (or more) tests than you planned, the missing (or extras)
will be considered failures. If no tests were ever run Test::Simple
will throw a warning and exit with 255. If the test died, even after
having successfully completed all its tests, it will still be considered a failure and will exit with 255.

So the exit codes are...

0                     all tests successful
255                   test died
any other number     how many failed (including missing or extras)

If you fail more than 254 tests, it will be reported as 254.

This module is by no means trying to be a complete testing system. It's just to get you started. Once you're off the ground its recommended you look at L<Test::More>.

=head1 EXAMPLE

Here's an example of a simple .t file for the fictional Film module.

use Test::Simple tests => 5;

use Film; # What you're testing.

my $btaste = Film->new({ Title => 'Bad Taste',
                         Director => 'Peter Jackson',
                         Rating => 'R',
                         NumExplodingSheep => 1 });

ok( defined($btaste) and ref $btaste eq 'Film',     'new() works' );

ok( $btaste->Title eq 'Bad Taste',     'Title() get'    );
ok( $btaste->Director eq 'Peter Jackson', 'Director() get' );
ok( $btaste->Rating eq 'R',             'Rating() get'   );
ok( $btaste->NumExplodingSheep == 1,        'NumExplodingSheep() get' );

It will produce output like this:

1..5
ok 1 - new() works
ok 2 - Title() get
ok 3 - Director() get
not ok 4 - Rating() get
# Failed test (t/film.t at line 14)
ok 5 - NumExplodingSheep() get
# Looks like you failed 1 tests of 5

Indicating the Film::Rating() method is broken.
=head1 CAVEATS

Test::Simple will only report a maximum of 254 failures in its exit code. If this is a problem, you probably have a huge test script. Split it into multiple files. (Otherwise blame the Unix folks for using an unsigned short integer as the exit status).

Because VMS's exit codes are much, much different than the rest of the universe, and perl does horrible mangling to them that gets in my way, it works like this on VMS.

0  SS$_NORMAL        all tests successful
4  SS$_ABORT         something went wrong

Unfortunately, I can't differentiate any further.

=head1 NOTES

Test::Simple is B<explicitly> tested all the way back to perl 5.004.

Test::Simple is thread-safe in perl 5.8.0 and up.

=head1 HISTORY

This module was conceived while talking with Tony Bowden in his kitchen one night about the problems I was having writing some really complicated feature into the new Testing module. He observed that the main problem is not dealing with these edge cases but that people hate to write tests B<at all>. What was needed was a dead simple module that took all the hard work out of testing and was really, really easy to learn. Paul Johnson simultaneously had this idea (unfortunately, he wasn't in Tony's kitchen). This is it.

=head1 SEE ALSO

=over 4

=item L<Test::More>

More testing functions! Once you outgrow Test::Simple, look at Test::More. Test::Simple is 100% forward compatible with Test::More (i.e. you can just use Test::More instead of Test::Simple in your programs and things will still work).
=item L<Test>

The original Perl testing module.

=item L<Test::Unit>

Elaborate unit testing.

=item L<Test::Inline>, L<SelfTest>

Embed tests in your code!

=item L<Test::Harness>

Interprets the output of your test program.

=back

=head1 AUTHORS

Idea by Tony Bowden and Paul Johnson, code by Michael G Schwern
E<lt>schwern@pobox.comE<gt>, wardrobe by Calvin Klein.

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* /opt/cola/permits/1150897886_1634081776.87/0/perl-PathTools-3.40-5.amzn2.0.2.src.rpm-cosi-expand-archive-
  DFqo5q1V/PathTools-3.40.tar.gz-cosi-expand-archive-ftvWY5fq/PathTools-3.40/t/lib/Test/Simple.pm

1.1476 htmlparser2 5.0.1
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* @version 3.0 (December 2000)
  *
  * Optimised ANSI C code for the Rijndael cipher (now AES)
  *
  * @author Vincent Rijmen <vincent.rijmen@esat.kuleuven.ac.be>
  * @author Antoon Bosselaers <antoon.bosselaers@esat.kuleuven.ac.be>
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If distribution of object code is made by offering access to copy
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Section 6 states terms for distribution of such executables.

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threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data
structure layouts and accessors, and small macros and small inline
functions (ten lines or less in length), then the use of the object
file is unrestricted, regardless of whether it is legally a derivative
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Otherwise, if the work is a derivative of the Library, you may
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executable containing the modified Library. (It is understood
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b) Use a suitable shared library mechanism for linking with the
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copy of the library already present on the user's computer system,
rather than copying library functions into the executable, and (2)
will operate properly with a modified version of the library, if
the user installs one, as long as the modified version is
interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at least
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* DNS resolver (dirmngr/dns.c)

dns.c - Recursive, Reentrant DNS Resolver.

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1.1491 usbutils 007-4build1

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   (For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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1.1501 ethtool 4.8-10.amzn2

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1.1502 python-defaults 2.7.13-2
1.1502.1 Available under license :

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--------------------------------------------------------------
A. HISTORY OF THE SOFTWARE

Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands as a successor of a language called ABC. Guido remains Python’s principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see http://www.cnri.reston.va.us) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope Corporation, see http://www.zope.com). In 2001, the Python Software Foundation (PSF, see http://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of the PSF.

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Found in path(s):

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* /opt/cola/permits/1125758851_1613553092.69/0/tangdixi-dcpathbutton-2-1-3-0-ge4b13fb-tar-gz/Tangdixi-
DCPathButton-39be410/Example/Pods/Target Support Files/Pods/Pods-acknowledgements.plist

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Pod::Spec.new do |

  s.name = "DCPathButton"
  s.version = "2.1.1"
  s.summary = "A beautiful button copy from Path®"

  s.description = <<-DESC
DCPathButton is a menu button, designed by a famous App Path®. Since Path® 4.0, it return to use a tab bar instead of a side bar, and also change the menu button. So I try to implement it and then the DCPathButton born :) DESC

  s.homepage = "https://github.com/Tangdixi/DCPathButton"
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DCPathButton-39be410/Example-Swift/Example-Swift/Base.lproj/LaunchScreen.xib
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DCPathButton-39be410/Example/Pods/Target Support Files/Pods/Pods-acknowledgements.markdown
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1.1521 libtirpc 3.0.0

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1.1522 ldns 1.7.1

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# Provide generalized library-building support services.
# Written by Gordon Matzigkeit <gord@gnu.ai.mit.edu>, 1996

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* Modified by Jelte Jansen to fit in ldns, and not clash with any
* system-defined SHA code.
* Changes:
* - Renamed (external) functions and constants to fit ldns style
* - Removed _End and _Data functions
* - Added ldns_shaX(data, len, digest) convenience functions
* - Removed prototypes of _Transform functions and made those static
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* $Id: sha2.c,v 1.1 2001/11/08 00:01:51 adg Exp adg $
*/

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1.1523 flexmark-ext-tables 0.40.32

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1.1524 go-connections 0.4.0

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1.1525 gnutls 3.5.18-1ubuntu1.4

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# version 0.1
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1.1538 cups 2.2.7-1ubuntu2.8
1.1538.1 Available under license :

usr/sbin/lpc
usr/bin/lpq
usr/bin/lpr
usr/bin/lprm
usr/share/man/man1/lpr.1.gz
usr/share/man/man1/lprm.1.gz
usr/share/man/man1/lpq.1.gz
usr/share/man/man8/lpc.8.gz
Format: https://www.debian.org/doc/packaging-manuals/copyright-format/1.0/
Upstream-Name: CUPS
Upstream-Contact: Michael Sweet <msweet@apple.com>
Source: https://cups.org/software.php

Files: *
License: GPL-2.0 with AOSDL exception

Files: cups/* filter/*
Copyright: 2007-2013, Apple Inc.
License: LGPL-2.0 with AOSDL exception

Files: cups/md5-private.h
   cups/md5.c
Copyright: 2007-2014, Apple Inc
   2005, Easy Software Products
License: Zlib

Files: scheduler/colorman.c
Copyright: 2011, Red Hat, Inc
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1.1539 libxmu 1.1.2-2

1.1539.1 Available under license:

No license file was found, but licenses were detected in source scan.

--- libxmu-1.1.2.orig/autogen.sh
+++ libxmu-1.1.2/autogen.sh
@@ -0,0 +1,14 @@
+#!/ /bin/sh
+
+srcdir=`dirname $0`
+
+test -z ""$srcdir"" && srcdir=.
+
+ORIGDIR=`pwd`
+cd $srcdir
+
+autoreconf -v --install || exit 1
+cd ORIGDIR || exit $?
+
+if test -z "$NOCONFIGURE"; then
+    $srcdir/configure "$@"
+fi

--- libxmu-1.1.2.orig/debian/changelog
+++ libxmu-1.1.2/debian/changelog
@@ -0,0 +1,219 @@
+libxmu (2:1.1.2-2) unstable; urgency=medium
+
+ [ Andreas Boll ]
+ + * Switch to dh with the autoreconf and quilt addons, fixing possible FTBFS
+ + when building in parallel (closes: #801059). Thanks, Matthias Klose!
+
+ [ Julien Cristau ]
+ + * Remove Cyril from Uploaders.
+ + * Bump Standards-Version to 3.9.6, update Vcs-* control fields.
+
+ -- Julien Cristau <jcristau@debian.org>  Sat, 14 Nov 2015 10:04:44 +0100
+ +libxmu (2:1.1.2-1) unstable; urgency=low
+ + * New upstream release.
+ + * Add ${misc:Depends} to libxmu-headers.
+ + * Use /usr/share/quilt/quilt.make instead of xsfbs for patching.
+ + * Add build-{arch,indep} debian/rules targets.
+ + * Bump debhelper compat level from 5 to 7.
+ + -- Julien Cristau <jcristau@debian.org> Mon, 05 May 2014 14:13:01 +0200
+ +libxmu (2:1.1.1-1) unstable; urgency=low
+ + * New upstream release.
+ + * Don't require (fake)root for debian/rules clean.
+ + * Bump build-deps on xutils-dev, xmlto and xorg-sgml-doctools per
+ + configure.ac.
+ + * Xmu.html no longer hardcodes the full path to xlogo.svg, drop sed call
+ + from debian/rules.
+ + * Remove David Nusinow from Uploaders.
+ + * Bump debhelper build-dep for ${misc:Pre-Depends} usage.
+ + -- Julien Cristau <jcristau@debian.org> Sat, 21 Apr 2012 10:50:11 +0200
+ +libxmu (2:1.1.0-3) unstable; urgency=low
+ + * Build for multiarch.
+ + -- Steve Langasek <vorlon@debian.org> Fri, 21 Oct 2011 14:47:59 -0700
+ +libxmu (2:1.1.0-2) unstable; urgency=low
+ + [ Christopher James Halse Rogers ]
+ + * debian/patches/01_dont_export_private_deps.patch:
+ + * The Xmu.h header uses libXt symbols in a #define, so libXt is not a
+ + private dep. With binutils-gold, the indirect dependency on Xt is not
+ + considered when linking with Xmu so this causes build failures.
+ + [ Julien Cristau ]
+ + * Drop Pre-Depends on x11-common, only needed for upgrades from the
+ + monolith.
+ + -- Julien Cristau <jcristau@debian.org> Thu, 28 Apr 2011 14:10:11 +0200
+ +libxmu (2:1.1.0-1) unstable; urgency=low
+ + * New upstream release.
+ + * Bump xutils-dev build-dep for new macros.
+ * Add xmlto, xorg-sgml-doctools, and w3m build-dep for the doc.
+ * Pass --with-xmlto and --without-fop (we want html and txt only).
+ * Pass --docdir=/usr/share/doc/libxmu-headers and add this directory to
  + libxmu-headers.install file.
+ * Remove the hardcoded path to the X logo in the Xmu.html file.
+ * Kill *.xml in the doc directory, no point in shipping them.
+ * Switch from --list-missing to --fail-missing for additional safety.

+ -- Cyril Brulebois <kibi@debian.org> Fri, 19 Nov 2010 08:42:29 +0100
+ +libxmu (2:1.0.5-2) unstable; urgency=high
+ + [ Julien Cristau ]
+ * Rename the build directory to not include DEB_BUILD_GNU_TYPE for no
  + good reason. Thanks, Colin Watson!
+ * Remove myself from Uploaders
+ * Don't pass both -s and -Nfoo/-pfoo to dh_strip. This resulted in an empty
  + libxmuu1-db (Closes: #594500). Thanks to Luca Falavigna for the report.

+ -- Cyril Brulebois <kibi@debian.org> Sat, 04 Sep 2010 14:32:30 +0200
+ +libxmu (2:1.0.5-1) unstable; urgency=low
+ + [ Timo Aaltonen ]
+ * New upstream release.
+ * Fix 64bit support (closes: #521887)
+ + [ Julien Cristau ]
+ * Bump Standards-Version to 3.8.3.
+ + -- Julien Cristau <jcristau@debian.org> Wed, 25 Nov 2009 19:20:17 +0100
+ +libxmu (2:1.0.4-2) unstable; urgency=low
+ + [ Julien Cristau ]
+ * Drop -1 debian revisions from build-deps.
+ * libxmu6{,-dbg}, libxmu-dev, libxmuu1{,-dbg} and libxmuu-dev don't need a
  + dependency on x11-common.
+ * Build libxmu-headers in binary-indep instead of binary-arch
  + (closes: #486418). Thanks, Martin Koepe!
+ * Run autoreconf on build; build-depend on automake, libtool, xutils-dev.
+ * Handle parallel builds.

---
+ [ Brice Goglin ]
+ * Add a link to www.X.org and a reference to the upstream module
+ * Add upstream URL to debian/copyright.
+ * Add README.source, bump Standards-Version to 3.8.2.
+ * Use updated xsfbs, closes: #538587.
+ * Move -dbg packages to section debug.
+
+ -- Julien Cristau <jcristau@debian.org> Fri, 07 Aug 2009 14:30:36 +0200
+
+libxmu (2:1.0.4-1) unstable; urgency=low
+
+ [ Julien Cristau ]
+ * New upstream release.
+ * Make libxmu*-dev depend on libxmu-headers (= ${source:Version}). Thanks, Josh Triplett.
+ * Don't export private dependencies in xmu.pc and xmuu.pc. These dependencies are handled by Requires.private.
+ * Due to the above, build-depend on quilt and apply the xsfbs patch rules.
+ * Update xsfbs to the latest version as of 2008-01-06.
+ * Add myself to Uploaders, and remove Branden and Fabio with their permission.
+ * Bump Standards-Version to 3.7.3 (no changes).
+ * s/^XS-Vcs/Vcs/
+
+ -- Timo Aaltonen ]
+ * Bump the epoch so that this can be synced to Ubuntu in the future.
+
+ -- Julien Cristau <jcristau@debian.org> Thu, 17 Jan 2008 14:57:47 +0100
+
+libxmu (1:1.0.3-1) unstable; urgency=low
+
+ * New upstream release.
+ * Install the upstream changelog.
+ * Remove outdated CVS information from the package descriptions, and add
+ XS-Vcs-Git and XS-Vcs-Browser.
+ * Fix package sections (libraries in libs, development stuff in libdevel).
+ * Use ${binary:Version} instead of ${Source-Version}.
+
+ -- Andres Salomon ]
+ * Test for obj-${DEB_BUILD_GNU_TYPE} before creating it during build;
+ idempotency fix.
+
+ [ Drew Parsons ]
+ * dbg package has priority extra.
+ -- David Nusinow <dnusinow@debian.org>  Wed, 30 Aug 2006 16:53:25 -0400
+ +libxmu (1:1.0.2-1) experimental; urgency=low
+ + * New upstream release
+ + * Bump debhelper compat to 5
+ + * Run dh_install with --list-missing
+ + * Version the -headers package's x11-common pre-dep to use version 1:7.0.0
+ + to match the rest of Debian and shut lintian up
+ + * Bump standards version to 3.7.2.0
+ + -- David Nusinow <dnusinow@debian.org>  Mon,  3 Jul 2006 18:43:32 -0400
+ + +libxmu (1:1.0.1-3) unstable; urgency=low
+ + + * Reorder makeshlib command in rules file so that ldconfig is run
+ + properly. Thanks Drew Parsons and Steve Langasek.
+ + -- David Nusinow <dnusinow@debian.org>  Tue, 18 Apr 2006 21:49:59 -0400
+ + +libxmu (1:1.0.1-2) unstable; urgency=low
+ + + * Upload to unstable
+ + -- David Nusinow <dnusinow@debian.org>  Thu, 23 Mar 2006 22:44:59 -0500
+ + +libxmu (1:1.0.1-1) experimental; urgency=low
+ + + * First upload to Debian
+ + -- David Nusinow <dnusinow@debian.org>  Thu, 29 Dec 2005 20:53:53 -0500
+ + +libxmu (1:6.2.3-5) breezy; urgency=low
+ + + * Also, libxmu-dev needs to depend on libxt-dev too.
+ + -- Adam Conrad <adconrad@ubuntu.com>  Mon, 25 Jul 2005 09:43:47 +0000
+ + +libxmu (1:6.2.3-4) breezy; urgency=low
+ + + * Bump libxt-dev build-dep once more, _XOPEN_SOURCE begone!
+ + -- Adam Conrad <adconrad@ubuntu.com>  Sun, 24 Jul 2005 10:48:14 +0000
+ + +libxmu (1:6.2.3-3) breezy; urgency=low
+
* Make libxmu-dev depend on libxext-dev, since libxmu links to it.

-- Adam Conrad <adconrad@ubuntu.com>  Sun, 24 Jul 2005 07:56:02 +0000

+libxmu (1:6.2.3-2) breezy; urgency=low

+ * Bump Build-Depends on libx11-dev, libxext-dev and libxt-dev to avoid
  _XOPEN_SOURCE.

-- Daniel Stone <daniel.stone@ubuntu.com>  Sat, 23 Jul 2005 00:20:50 +1000

+libxmu (1:6.2.3-1) breezy; urgency=low

+ * First libxmu release.

-- Daniel Stone <daniel.stone@ubuntu.com>  Mon, 16 May 2005 22:10:17 +1000

--- libxmu-1.1.2.orig/debian/compat
+++ libxmu-1.1.2/debian/compat
@@ -0,0 +1 @@
+9
--- libxmu-1.1.2.orig/debian/control
+++ libxmu-1.1.2/debian/control
@@ -0,0 +1,155 @@
+Source: libxmu
+Section: x11
+Priority: optional
+Maintainer: Debian X Strike Force <debian-x@lists.debian.org>
+Build-Depends:
+  debhelper (>= 9),
+  dh-autoreconf,
+  libx11-dev (>= 1:0.99.2),
+  libxt-dev (>= 1:0.99.1),
+  libxext-dev (>= 1:0.99.1),
+  pkg-config,
+  quilt,
+  automake,
+  libtool,
+  xutils-dev (>= 1:7.6+2),
+  # devel-docs:
+  xmlto (>= 0.0.22),
+  xorg-sgml-doctools (>= 1:1.8),
+  w3m,
+Standards-Version: 3.9.6
+Vcs-Git: git://anonscm.debian.org/git/pkg-xorg/lib/libxmu
+Vcs-Browser: https://anonscm.debian.org/cgit/pkg-xorg/lib/libxmu.git
+Package: libxmu6
+Section: libs
+Architecture: any
+Multi-Arch: same
+Pre-Depends: ${misc:Pre-Depends}
+Depends: ${shlibs:Depends}, ${misc:Depends}
+Description: X11 miscellaneous utility library
+ libXmu provides a set of miscellaneous utility convenience functions for X
+ libraries to use. libXmuu is a lighter-weight version that does not depend
+ on libXt or libXext; for more information, see libxmuu1.
+.
+ More information about X.Org can be found at:
+ <URL:http://www.X.org>
+.
+ This module can be found at
+ git://anongit.freedesktop.org/git/xorg/lib/libXmu
+
+Package: libxmu6-dbg
+Section: debug
+Architecture: any
+Multi-Arch: same
+Priority: extra
+Depends: ${shlibs:Depends}, ${misc:Depends}, libxmu6 (= ${binary:Version})
+Description: X11 miscellaneous utility library (debug package)
+ libXmu provides a set of miscellaneous utility convenience functions for X
+ libraries to use. libXmuu is a lighter-weight version that does not depend
+ on libXt or libXext; for more information, see libxmuu1.
+.
+ This package contains the debug versions of the library found in libxmu6.
+ Non-developers likely have little use for this package.
+.
+ More information about X.Org can be found at:
+ <URL:http://www.X.org>
+.
+ This module can be found at
+ git://anongit.freedesktop.org/git/xorg/lib/libXmu
+
+Package: libxmu-dev
+Section: libdevel
+Architecture: any
+Multi-Arch: same
+Depends: ${shlibs:Depends}, ${misc:Depends}, libxext-dev, libxt-dev, libxmu6 (= ${binary:Version}), libxmu-
headers (= ${source:Version})
+Description: X11 miscellaneous utility library (development headers)
+ libXmu provides a set of miscellaneous utility convenience functions for X
+ libraries to use. libXmuu is a lighter-weight version that does not depend
+ on libXt or libXext; for more information, see libxmuu1.
+.
+ This package contains the development headers for the library found in
+ libxmu6. Non-developers likely have little use for this package.
More information about X.Org can be found at:
<URL:http://www.X.org>

This module can be found at
<URL:http://anongit.freedesktop.org/git/xorg/lib/libXmu>

Package: libxmuu1
Section: libs
Architecture: any
Multi-Arch: same
Pre-Depends: ${misc:Pre-Depends}
Depends: ${shlibs:Depends}, ${misc:Depends}
Description: X11 miscellaneous micro-utility library
libXmuu provides a set of miscellaneous utility convenience functions for X
libraries to use. It is a lighter version of libXmu that does not depend
on libXt or libXext; for more information on libXmu, see libxmu6.

More information about X.Org can be found at:
<URL:http://www.X.org>

This module can be found at
<URL:http://anongit.freedesktop.org/git/xorg/lib/libXmu>

Package: libxmuu1-dbg
Section: debug
Architecture: any
Multi-Arch: same
Priority: extra
Depends: ${shlibs:Depends}, ${misc:Depends}, libxmuu1 (= ${binary:Version})
Description: X11 miscellaneous micro-utility library (debug package)
libXmuu provides a set of miscellaneous utility convenience functions for X
libraries to use. It is a lighter version of libXmu that does not depend
on libXt or libXext; for more information on libXmu, see libxmu6.

This package contains the debug versions of the library found in libxmuu1.
Non-developers likely have little use for this package.

More information about X.Org can be found at:
<URL:http://www.X.org>

This module can be found at
<URL:http://anongit.freedesktop.org/git/xorg/lib/libXmu>

Package: libxmuu-dev
Section: libdevel
Architecture: any
Multi-Arch: same
+Depends: ${shlibs:Depends}, ${misc:Depends}, libxmuu1 (= ${binary:Version}), libxmuu-headers (= ${source:Version})
+Description: X11 miscellaneous micro-utility library (development headers)
+  libXmuu provides a set of miscellaneous utility convenience functions for X
+  libraries to use. It is a lighter version of libXmu that does not depend
+  on libXt or libXext; for more information on libXmu, see libxmuu6.
+  
+  This package contains the development headers for the library found in
+  libxmuu1. Non-developers likely have little use for this package.
+  
+  More information about X.Org can be found at:
+  <URL:http://www.X.org>
+
+  This module can be found at
+  git://anongit.freedesktop.org/git/xorg/lib/libXmu
+
+  Package: libxmu-headers
+  Section: libdevel
+  Architecture: all
+  Multi-Arch: foreign
+  Depends:
+  libx11-dev,
+  x11proto-core-dev,
+  ${misc:Depends},
+Description: X11 miscellaneous utility library headers
+  libXmu and libXmuu are miscellaneous utility libraries for X library
+  developers to abstract some common functions. This package provides the
+  headers for both libraries (as libXmuu is a subset of libXmu), and
+  is depended upon by both. For more information, please see libxmu-dev or
+  libxmuu-dev.
+  
+  More information about X.Org can be found at:
+  <URL:http://www.X.org>
+
+  This module can be found at
+  git://anongit.freedesktop.org/git/xorg/lib/libXmu
--- libxmu-1.1.2.orig/debian/copyright
+++ libxmu-1.1.2/debian/copyright
@@ -0,0 +1,77 @@
+This package was downloaded from
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+
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--- libxmu-1.1.2.orig/debian/libxmu-dev.install
+++ libxmu-1.1.2/debian/libxmu-dev.install
@@ -0,0 +1,3 @@
usr/lib/*/libXmu.a
usr/lib/*/libXmu.so
usr/lib/*/pkgconfig/xmu.pc
--- libxmu-1.1.2.orig/debian/libxmu-headers.install
+++ libxmu-1.1.2/debian/libxmu-headers.install
@@ -0,0 +1,2 @@
usr/include/X11/*
usr/share/doc/libxmu-headers
--- libxmu-1.1.2.orig/debian/libxmu6.install
+++ libxmu-1.1.2/debian/libxmu6.install
@@ -0,0 +1 @@
usr/lib/*/libXmu.so.6*
--- libxmu-1.1.2.orig/debian/libxmuu-dev.install
+++ libxmu-1.1.2/debian/libxmuu-dev.install
@@ -0,0 +1,3 @@
usr/lib/*/libXmuu.a
usr/lib/*/libXmuu.so
usr/lib/*/pkgconfig/xmuu.pc
--- libxmu-1.1.2.orig/debian/libxmuu1.install
+++ libxmu-1.1.2/debian/libxmuu1.install
@@ -0,0 +1,3 @@
usr/lib/*/libXmuu.so.1*
--- libxmu-1.1.2.orig/debian/patches/01_dont_export_private_deps.diff
+++ libxmu-1.1.2/debian/patches/01_dont_export_private_deps.diff
@@ -0,0 +1,26 @@
+diff --git a/xmu.pc.in b/xmu.pc.in
+index a086f83..15dabbf 100644
+--- a/xmu.pc.in
++++ b/xmu.pc.in
@@ -6,7 +6,7 @@ includedir=@includedir@
+ Name: Xmu
+ Description: Xmu Library
+ Version: @PACKAGE_VERSION@
++Requires: xproto x11 xt
+ Requires.private: x11 xt xext
+ Cflags: -I${includedir}
+ Libs: -L${libdir} -lXmu
+diff --git a/xmuu.pc.in b/xmuu.pc.in
+index 1e91ac4..72fa5f9 100644
+--- a/xmuu.pc.in
++++ b/xmuu.pc.in
@@ -6,7 +6,7 @@ includedir=@includedir@
+ Name: Xmuu
+ Description: Mini Xmu Library
+ Version: @PACKAGE_VERSION@
++Requires: xproto
+ Requires.private: x11
+ Cflags: -I${includedir}
+ Libs: -L${libdir} -lXmuu
--- libxmu-1.1.2.orig/debian/patches/series
+++ libxmu-1.1.2/debian/patches/series
@@ -0,0 +1 @@
01_dont_export_private_deps.diff
--- libxmu-1.1.2.orig/debian/rules
+++ libxmu-1.1.2/debian/rules
@@ -0,0 +1,34 @@
#!/usr/bin/make -f
# debian/rules for the Debian libxmu package.
+ Copyright 2004 Scott James Remnant <scott@netsplit.com>
+ Copyright 2005 Daniel Stone <daniel@fooishbar.org>
+ Copyright 2005 David Nusinow <dnusinow@debian.org>
+
+ Uncomment this to turn on verbose mode.
+export DH_VERBOSE=1
+
+.PHONY: build
+build:
+dh build --with quilt,autoreconf --builddirectory=build/ --parallel
+
+@:
+dh $@ --with quilt,autoreconf --builddirectory=build/ --parallel
override_dh_auto_configure:
  dh_auto_configure -- \
  --disable-silent-rules \
  --docdir=${prefix}/share/doc/libxmu-headers \
  --with-xmlto \
  --without-fop

override_dh_auto_install:
  dh_auto_install
  find debian/tmp/usr/share/doc/libxmu-headers -name '*.xml' -delete

override_dh_install-arch:
  dh_install --fail-missing -Xusr/include -X.la

override_dh_strip:
  dh_strip -Nlibxmu6 -Nlibxmuu1
  dh_strip -plibxmu6 --dbg-package=libxmu6-dbg
  dh_strip -plibxmuu1 --dbg-package=libxmuu1-dbg

--- libxmu-1.1.2.orig/debian/watch
+++ libxmu-1.1.2/debian/watch
@@ -0,0 +1,3 @@
+#git=git://anongit.freedesktop.org/xorg/lib/libXmu
+version=3
+http://xorg.freedesktop.org/releases/individual/lib/ libXmu-(.*)\.tar\.gz

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1013987576_1591897387.78/0/libxmu-1-1-2-2-diff-gz/libxmu_1.1.2-2.diff

1.1540 kubernetes 1.16.2

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* github.com/BurntSushi/toml - https://github.com/BurntSushi/toml

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* github.com/kisielk/gotool  https://github.com/kisielk/gotool

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match.go, match_test.go:

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* github.com/rogpeppe/go-internal - https://github.com/rogpeppe/go-internal

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* golang.org/x/mod/module - https://github.com/golang/mod

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* golang.org/x/tools/go/analysis - https://github.com/golang/tools

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package goautoneg
import "bitbucket.org/ww/goautoneg"

HTTP Content-Type Autonegotiation.

The functions in this package implement the behaviour specified in
http://www.w3.org/Protocols/rfc2616/rfc2616-sec14.html

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FUNCTIONS

func Negotiate(header string, alternatives []string) (content_type string)
Negotiate the most appropriate content_type given the accept header and a list of alternatives.

func ParseAccept(header string) (accept []Accept)
Parse an Accept Header string returning a sorted list of clauses

TYPES

type Accept struct {
    Type, SubType string
    Q        float32
    Params   map[string]string
}
Structure to represent a clause in an HTTP Accept Header

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// For more information: http://goo.gl/8us55a#licenseObject
type License struct {
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*/
package simulator

import (
    "github.com/vmware/govmomi/object"
    "github.com/vmware/govmomi/vim25/methods"
    "github.com/vmware/govmomi/vim25/mo"
    "github.com/vmware/govmomi/vim25/soap"
    "github.com/vmware/govmomi/vim25/types"
)

// EvalLicense is the default license
var EvalLicense = types.LicenseManagerLicenseInfo{
    LicenseKey: "00000-00000-00000-00000-00000",
    EditionKey: "eval",
    Name: "Evaluation Mode",
    Properties: []types.KeyAnyValue{
        {Key: "feature", Value: types.KeyValue{
            Key:   "serialuri:2",
            Value: "Remote virtual Serial Port Concentrator",
        }},
        {Key: "feature", Value: types.KeyValue{
            Key:   "dvs",
            Value: "vSphere Distributed Switch",
        }}
    }
}

type LicenseManager struct {
func NewLicenseManager(ref types.ManagedObjectReference) object.Reference {
    m := &LicenseManager{
        Self: ref,
        Licenses: []types.LicenseManagerLicenseInfo{EvalLicense}
    }
    if Map.IsVPX() {
        am := Map.Put(&LicenseAssignmentManager{}).Reference()
        m.LicenseAssignmentManager = &am
    }
    return m
}

func (m *LicenseManager) AddLicense(req *types.AddLicense) soap.HasFault {
    body := &methods.AddLicenseBody{
        Res: &types.AddLicenseResponse{},
    }
    for _, license := range m.Licenses {
        if license.LicenseKey == req.LicenseKey {
            body.Res.Returnval = licenseInfo(license.LicenseKey, license.Labels)
            return body
        }
    }
    m.Licenses = append(m.Licenses, types.LicenseManagerLicenseInfo{
        LicenseKey: req.LicenseKey,
        Labels:    req.Labels,
    })
    body.Res.Returnval = licenseInfo(req.LicenseKey, req.Labels)
    return body
}

func (m *LicenseManager) RemoveLicense(req *types.RemoveLicense) soap.HasFault {
    body := &methods.RemoveLicenseBody{
        Res: &types.RemoveLicenseResponse{},
    }
    for i, license := range m.Licenses {
        if req.LicenseKey == license.LicenseKey {
            m.Licenses = append(m.Licenses[:i], m.Licenses[i+1:]...)
            return body
        }
    }
    body.Res.Returnval = licenseInfo(req.LicenseKey, req.Labels)
    return body
}
func (m *LicenseManager) UpdateLicenseLabel(req *types.UpdateLicenseLabel) soap.HasFault {
    body := &methods.UpdateLicenseLabelBody{
        for i := range m.Licenses {
            license := &m.Licenses[i]
            if req.LicenseKey != license.LicenseKey {
                continue
            }
            body.Res = new(types.UpdateLicenseLabelResponse)
            for j := range license.Labels {
                label := &license.Labels[j]
                if label.Key == req.LabelKey {
                    if req.LabelValue == "" {
                        license.Labels = append(license.Labels[:i], license.Labels[i+1:]...)
                    } else {
                        label.Value = req.LabelValue
                    }
                    return body
                }
            }
            license.Labels = append(license.Labels, types.KeyValue{
                Key:   req.LabelKey,
                Value: req.LabelValue,
            })
            return body
        }
        body.Fault_ = Fault("", &types.InvalidArgument{InvalidProperty: "licenseKey"})
        return body
    }
    type LicenseAssignmentManager struct {
        mo.LicenseAssignmentManager
    }
    func (m *LicenseAssignmentManager) QueryAssignedLicenses(req *types.QueryAssignedLicenses) soap.HasFault {
        body := &methods.QueryAssignedLicenseesBody{
            for i := range m.Licenses {
                license := &m.Licenses[i]
                if req.LicenseKey != license.LicenseKey {
                    continue
                }
                body.Res = new(types.QueryAssignedLicenseesResponse)
                for j := range license.Labels {
                    label := &license.Labels[j]
                    if label.Key == req.LabelKey {
                        if req.LabelValue == "" {
                            license.Labels = append(license.Labels[:i], license.Labels[i+1:]...)
                        } else {
                            label.Value = req.LabelValue
                        }
                        return body
                    }
                }
                license.Labels = append(license.Labels, types.KeyValue{
                    Key:   req.LabelKey,
                    Value: req.LabelValue,
                })
                return body
            }
            body.Fault_ = Fault("", &types.InvalidArgument{InvalidProperty: "licenseKey"})
            return body
        }
    }
Res: &types.QueryAssignedLicensesResponse{},
}

// EntityId can be a HostSystem or the vCenter InstanceUuid
if req.EntityId != "" {
  if req.EntityId != Map.content().About.InstanceUuid {
    id := types.ManagedObjectReference{
      Type: "HostSystem",
      Value: req.EntityId,
    }
    if Map.Get(id) == nil {
      return body
    }
  }
}

body.Res.Returnval = []types.LicenseAssignmentManagerLicenseAssignment{
  {
    EntityId: req.EntityId,
    AssignedLicense: EvalLicense,
  },
}

return body
}

func licenseInfo(key string, labels []types.KeyValue) types.LicenseManagerLicenseInfo {
  info := EvalLicense
  info.LicenseKey = key
  info.Labels = labels

  return info
}

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BSON library for Go

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mgo - MongoDB driver for Go

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package migration

import "fmt"

// Notice is a migration warning

type Notice struct {
    Plugin     string
    Option     string
    Severity   string // 'deprecated', 'removed', or 'unsupported'
    ReplacedBy string
    Additional string
    Version    string
}

func (n *Notice) ToString() string {
    s := ""
    if n.Option == "" {
        s += fmt.Sprintf("Plugin "%v". n.Plugin)
    } else {
        s += fmt.Sprintf("Option "%v" in plugin. n.Option, n.Plugin)
    }
    if n.Severity == unsupported {
        s += "is unsupported by this migration tool in " + n.Version + "."
    }
    return s
}
} else if n.Severity == newdefault {
    s += "is added as a default in " + n.Version + "."
} else {
    s += "is " + n.Severity + " in " + n.Version + "."
}
if n.ReplacedBy != "" {
    s += fmt.Sprintf(` It is replaced by "%v"`, n.ReplacedBy)
}
if n.Additional != "" {
    s += " " + n.Additional
}
return s
}

const (  
    // The following statuses are used to indicate the state of support/deprecation in a given release.
    deprecated  = "deprecated"  // deprecated, but still completely functional
    ignored     = "ignored"     // if included in the corefile, it will be ignored by CoreDNS
    removed     = "removed"     // completely removed from CoreDNS, and would cause CoreDNS to exit if present in
    the Corefile
    newdefault  = "newdefault"  // added to the default corefile. CoreDNS may not function properly if it is not present
    in the corefile.
    unsupported = "unsupported" // the plugin/option is not supported by the migration tool

    // The following statuses are used for selecting/filtering notifications
    all = "all" // show all statuses
)

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## Copying Container Files

### Motivation

- Copying files from Containers in a cluster
- Copying files from a local filesystem to Containers in a cluster

Copy requires that `tar` be installed in the container image.

### Local to Remote

Copy a local file to a remote Pod in a cluster.

- Local file format is `\<path>`
- Remote file format is `\<pod-name>:\<path>`

```
bash
kubectl cp /tmp/foo_dir <some-pod>:/tmp/bar_dir
```

### Remote to Local

## Copying Container Files

### Motivation

- Copying files from Containers in a cluster to a local filesystem
- Copying files from a local filesystem to Containers in a cluster

Copy requires that `tar` be installed in the container image.

### Local to Remote

Copy a local file to a remote Pod in a cluster.

- Local file format is `\<path>`
- Remote file format is `\<pod-name>:\<path>`

```
bash
kubectl cp /tmp/foo_dir <some-pod>:/tmp/bar_dir
```

### Remote to Local
Copy a remote file from a Pod to a local file.

- Local file format is `path`
- Remote file format is `pod-name:path`

```bash
kubectl cp <some-pod>:/tmp/foo /tmp/bar
```

## Specify the Container

Specify the Container within a Pod running multiple containers.

- `-c container-name`

```bash
kubectl cp /tmp/foo <some-pod>:/tmp/bar -c <specific-container>
```

## Namespaces

Set the Pod namespace by prefixing the Pod name with `namespace/pod`

- `<namespace/pod>:path`

```bash
kubectl cp /tmp/foo <some-namespace>/some-pod:/tmp/bar
```

runc

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tomb - support for clean goroutine termination in Go.

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1.1544 create-hash 1.2.0

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ASN.1 library for Python
========================

.. toctree::
   :maxdepth: 1

Abstract Syntax Notation One (`ASN.1`_ is a technology for exchanging structured data in a universally understood, hardware agnostic way. Many industrial, security and telephony applications heavily rely on ASN.1.

The `pyasn1`_ library implements ASN.1 support in pure-Python.

What is ASN.1
-------------
ASN.1 is a large, arguably over-engineered and extremely old data modelling and serialisation tool. It is probably among the first serialisation protocols in the history of computer science and technology.

ASN.1 started its life over 30 years ago as a serialisation mechanism for the first electronic mail (known as X.400). Later on if was split off the e-mail application and become a stand-alone tech still being actively supported by its designers and widely used in industry and technology.

Since then ASN.1 is sort of haunted by its relations with the OSI model -- the first, unsuccessful, version of the Internet. You can read many interesting discussions <https://news.ycombinator.com/item?id=8871453> on that topic.

In the following years, generations of software engineers tackled the serialisation problem many times. We can see that in Google's `ProtoBuffers`_ or `FlatBuffers`_ for example. Interestingly, many new takes on binary protocol design do not depart
far from ASN.1 from technical perspective. It's more of a matter of striking a balance between processing overhead, wire format overhead and human readability.

Looking at what ASN.1 has to offer, it has three loosely coupled parts:

* Data types: the standard introduces a collection of basic data types (integers, bits, strings, arrays and records) that can be used for describing arbitrarily complex, nested data structures.

* Serialisation protocols: the above data structures could be converted into a series of octets for storage or transmission over the wire as well as recovered back into their structured form. The system is fully agnostic to hardware architectures differences.

* Schema language: ASN.1 data structures could be described in terms of a schema language for ASN.1 compiler to turn it into platform-specific implementation.

ASN.1 applications
-------------------

Being an old and generally successful standard, ASN.1 is widely adopted for many uses. To give you an example, these technologies use ASN.1 for their data exchange needs:

* Signaling standards for the public switched telephone network (SS7 family)
* Network management standards (SNMP, CMIP)
* Directory standards (X.500 family, LDAP)
* Public Key Infrastructure standards (X.509, etc.)
* PBX control (CSTA)
* IP-based Videoconferencing (H.323 family)
* Biometrics (BIP, CBEFF, ACBio)
* Intelligent transportation (SAE J2735)
* Cellular telephony (GSM, GPRS/EDGE, UMTS, LTE)

ASN.1 gotchas
------------

Apparently, ASN.1 is hard to implement properly. Quality open-source ASN.1 tools are rare, but ad-hoc implementations are numerous. Judging from the `statistics <http://cve.mitre.org/cgi-bin/cvekey.cgi?keyword=ASN.1>`_ on discovered security vulnerabilities, many people have implemented ASN.1 parsers and oftentimes fell victim to its edge cases.

On the bright side, ASN.1 has been around for a long time, it is well understood and security reviewed.
Documentation
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Use case
-------

Download & Install
------------------

Changes
-------

All changes and release history is maintained in changelog. There you could also download the latest unreleased pyasn1 tarball containing the latest fixes and improvements.

License
------

The PyASN1 software is distributed under 2-clause BSD License.

Getting help
----------

Books on ASN.1
------------

The pyasn1 implementation is largely based on reading up the following awesome books:

* `ASN.1 - Communication between heterogeneous systems <http://www.oss.com/asn1/dubuisson.html>`_ by Olivier Dubuisson

Here you can get the official standards which is hard to read:


On the other end of the readability spectrum, here is a quick and sweet write up:


If you are working with ASN.1, we'd highly recommend reading a proper book on the subject.

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* `/opt/ws_local/PERMITS_SQL/1063014886_1592948799.99/0/pyasn1-0.4.2-orig-1-tar-gz/pyasn1-0.4.2/docs/source/contents.rst`

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ASN.1 library for Python
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[![PyPI](https://img.shields.io/pypi/v/pyasn1.svg?maxAge=2592000)][https://pypi.python.org/pypi/pyasn1]
[![Python Versions](https://img.shields.io/pypi/pyversions/pyasn1.svg)][https://pypi.python.org/pypi/pyasn1/]
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This is a free and open source implementation of ASN.1 types and codecs
as a Python package. It has been first written to support particular
protocol (SNMP) but then generalized to be suitable for a wide range
of protocols based on
[ASN.1 specification](https://www.itu.int/rec/dologin_pub.asp?lang=e&id=T-REC-X.208-198811-W!!PDF-E&type=items).

Features
-------

* Generic implementation of ASN.1 types (X.208)
* Standards compliant BER/CER/DER codecs
* Dumps/loads ASN.1 structures from Python types
* 100% Python, works with Python 2.4 up to Python 3.6
* MT-safe
* Contributed ASN.1 compiler [Asn1ate](https://github.com/kimgr/asn1ate)

Why using pyasn1
-----------------

ASN.1 solves the data serialisation problem. This solution was
designed long ago by the wise Ancients. Back then, they did not
have the luxury of wasting bits. That is why ASN.1 is designed
to serialise data structures of unbounded complexity into
something compact and efficient when it comes to processing
the data.

That probably explains why many network protocols and file formats
still rely on the 30+ years old technology. Including a number of
high-profile Internet protocols and file formats.

Quite a number of books cover the topic of ASN.1.
[Communication between heterogeneous systems](http://www.oss.com/asn1/dubuisson.html)
by Olivier Dubuisson is one of those high quality books freely
available on the Internet.

The pyasn1 package is designed to help Python programmers tackling
network protocols and file formats at the comfort of their Python
prompt. The tool struggles to capture all aspects of a rather
complicated ASN.1 system and to represent it on the Python terms.

How to use pyasn1
-----------------

With pyasn1 you can build Python objects from ASN.1 data structures.
For example, the following ASN.1 data structure:

```
```
id INTEGER,
room [0] INTEGER OPTIONAL,
house [1] INTEGER DEFAULT 0
}
```

Could be expressed in pyasn1 like this:

```python
class Record(Sequence):
    componentType = NamedTypes(
        NamedType('id', Integer()),
        OptionalNamedType('room', Integer().subtype(implicitTag=Tag(tagClassContext, tagFormatSimple, 0))
        ),
    DefaultedNamedType('house', Integer(0).subtype(implicitTag=Tag(tagClassContext, tagFormatSimple, 1)))
)
```

It is in the spirit of ASN.1 to take abstract data description and turn it into a programming language specific form. Once you have your ASN.1 data structure expressed in Python, you can use it along the lines of similar Python type (e.g. ASN.1 `SET` is similar to Python `dict`, `SET OF` to `list`):

```python
>>> record = Record()
>>> record['id'] = 123
>>> record['room'] = 321
>>> str(record)
Record:
 id=123
 room=321
```

Part of the power of ASN.1 comes from its serialisation features. You can serialise your data structure and send it over the network.

```python
>>> from pyasn1.codec.der.encoder import encode
>>> substrate = encode(record)
```
Conversely, you can turn serialised ASN.1 content, as received from network or read from a file, into a Python object which you can introspect, modify, encode and send back.

```python
>>> from pyasn1.codec.der.decoder import decode
>>> received_record, rest_of_substrate = decode(substrate, asn1Spec=Record())
>>> for field in received_record:
...    print('{} is {}'.format(field, received_record[field]))
id is 123
room is 321
house is 0
>>> record == received_record
True
>>> received_record.update(room=123)
>>> substrate = encode(received_record)
>>> hexdump(substrate)
00000: 30 06 02 01 7B 80 01 7B
```

The pyasn1 classes struggle to emulate their Python prototypes (e.g. int, list, dict etc.). But ASN.1 types exhibit more complicated behaviour. To make life easier for a Pythonista, they can turn their pyasn1 classes into Python built-ins:

```python
>>> from pyasn1.codec.native.encoder import encode
>>> encode(record)
{'id': 123, 'room': 321, 'house': 0}
```

Or vice-versa -- you can initialize an ASN.1 structure from a tree of Python objects:

```python
>>> from pyasn1.codec.native.decoder import decode
>>> record = decode({'id': 123, 'room': 321, 'house': 0}, asn1Spec=Record())
>>> str(record)
Record:
  id=123
  room=321
```
With ASN.1 design, serialisation codecs are decoupled from data objects, so you could turn every single ASN.1 object into many different serialised forms. As of this moment, pyasn1 supports BER, DER, CER and Python built-ins codecs. The extremely compact PER encoding is expected to be introduced in the upcoming pyasn1 release.

More information on pyasn1 APIs can be found in the [documentation](http://snmplabs.com/pyasn1/), compiled ASN.1 modules for different protocols and file formats could be found in the pyasn1-modules [repo](https://github.com/etingof/pyasn1-modules).

How to get pyasn1
-----------------

The pyasn1 package is distributed under terms and conditions of 2-clause BSD [license](http://snmplabs.com/pyasn1/license.html). Source code is freely available as a GitHub [repo](https://github.com/etingof/pyasn1).

You could `pip install pyasn1` or download it from [PyPI](https://pypi.python.org/pypi/pyasn1).

If something does not work as expected, [open an issue](https://github.com/etingof/pyasn1/issues) at GitHub or post your question [on Stack Overflow](http://stackoverflow.com/questions/ask) or try browsing pyasn1 [mailing list archives](https://sourceforge.net/p/pyasn1/mailman/pyasn1-users/).

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1.1546 is-extglob 2.1.1

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dnl with or without modifications, as long as this notice is preserved.

AC_DEFUN([gl_CANONICALIZE_LGPL],
[
  dnl Do this replacement check manually because the file name is shorter
dnl than the function name.
  AC_CHECK_DECLS_ONCE(canonicalize_file_name)
  AC_CHECK_FUNCS_ONCE(canonicalize_file_name)
  if test $ac_cv_func_canonicalize_file_name = no; then
    AC_LIBOBJ(canonicalize-lgpl)
    AC_DEFINE([realpath], [rpl_realpath],
      [Define to a replacement function name for realpath().])
  gl_PREREQ_CANONICALIZE_LGPL
  fi
])

# Like gl_CANONICALIZE_LGPL, except prepare for separate compilation
# (no AC_LIBOBJ).
AC_DEFUN([gl_CANONICALIZE_LGPL_SEPARATE],
[
  AC_CHECK_DECLS_ONCE(canonicalize_file_name)
  AC_CHECK_FUNCS_ONCE(canonicalize_file_name)
  gl_PREREQ_CANONICALIZE_LGPL
])

# Prerequisites of lib/canonicalize-lgpl.c.
AC_DEFUN([gl_PREREQ_CANONICALIZE_LGPL],
[
  AC_CHECK_HEADERS_ONCE(sys/param.h unistd.h)
  AC_CHECK_FUNCS_ONCE(getcwd readlink)
])

1.1548 infinipath-psm 3.3+20.604758e7-5

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  src/assuan-io.c
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src/assuan-pipe-server.c
src/assuan-socket-connect.c
src/assuan-socket-server.c
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1.1554 protobuf-java 3.0.2

1.1555 adduser 3.116ubuntu1

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== MariaDB ==

The Debian package of MySQL was first debianzed on 1997-04-12 by Christian Schwarz <schwarz@debian.org> and is maintained since 1999-04-20 by Christian Hammers <ch@debian.org>.

The MariaDB packages were initially made by http://ourdelta.org/, and are now managed by the MariaDB development team, maria-developers@lists.launchpad.net

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* /opt/cola/permits/1129090477_1612176217.67/0/stax2-api-3-1-4-sources-jar/org/codehaus/stax2/ri/Stax2ReaderImpl.java
* /opt/cola/permits/1129090477_1612176217.67/0/stax2-api-3-1-4-sources-jar/org/codehaus/stax2/ri/Stax2WriterAdapter.java
* /opt/cola/permits/1129090477_1612176217.67/0/stax2-api-3-1-4-sources-jar/org/codehaus/stax2/ri/Stax2WriterImpl.java
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* /opt/cola/permits/1129090477_1612176217.67/0/stax2-api-3-1-4-sources-
jar/org/codehaus/stax2/ri/typed/Base64DecoderBase.java
* /opt/cola/permits/1129090477_1612176217.67/0/stax2-api-3-1-4-sources-
jar/org/codehaus/stax2/ri/typed/CharArrayBase64Decoder.java
* /opt/cola/permits/1129090477_1612176217.67/0/stax2-api-3-1-4-sources-
jar/org/codehaus/stax2/ri/typed/StringBase64Decoder.java
* /opt/cola/permits/1129090477_1612176217.67/0/stax2-api-3-1-4-sources-
jar/org/codehaus/stax2/util/StreamWriterDelegate.java
* /opt/cola/permits/1129090477_1612176217.67/0/stax2-api-3-1-4-sources-
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  jar/org/codehaus/stax2/typed/Base64Variant.java
* /opt/cola/permits/1129090477_1612176217.67/0/stax2-api-3-1-4-sources-
  jar/org/codehaus/stax2/typed/Base64Variants.java
* /opt/cola/permits/1129090477_1612176217.67/0/stax2-api-3-1-4-sources-
  jar/org/codehaus/stax2/XMLStreamReader2.java
* /opt/cola/permits/1129090477_1612176217.67/0/stax2-api-3-1-4-sources-
  jar/org/codehaus/stax2/typed/TypedXMLStreamReader.java
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jar/org/codehaus/stax2/ri/Stax2EventReaderImpl.java

1.1581 systemd 237-3ubuntu10.46
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This license, the Library General Public License, applies to some specially designated Free Software Foundation software, and to any other libraries whose authors decide to use it. You can use it for your libraries, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the library, or if you modify it.

For example, if you distribute copies of the library, whether gratis or for a fee, you must give the recipients all the rights that we gave you. You must make sure that they, too, receive or can get the source code. If you link a program with the library, you must provide complete object files to the recipients so that they can relink them with the library, after making changes to the library and recompiling it. And you must show them these terms so they know their rights.

Our method of protecting your rights has two steps: (1) copyright the library, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the library.

Also, for each distributor's protection, we want to make certain that everyone understands that there is no warranty for this free library. If the library is modified by someone else and passed on, we want its recipients to know that what they have is not the original version, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that companies distributing free software will individually obtain patent licenses, thus in effect transforming the program into proprietary software. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License, which was designed for utility programs. This license, the GNU Library General Public License, applies to certain designated libraries. This license is quite different from the ordinary one; be sure to read it in full, and don't assume that anything in it is
the same as in the ordinary license.

The reason we have a separate public license for some libraries is that they blur the distinction we usually make between modifying or adding to a program and simply using it. Linking a program with a library, without changing the library, is in some sense simply using the library, and is analogous to running a utility program or application program. However, in a textual and legal sense, the linked executable is a combined work, a derivative of the original library, and the ordinary General Public License treats it as such.

Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, while the latter only works together with the library.

Note that it is possible for a library to be covered by the ordinary General Public License rather than by this special one.

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A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.
The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification").

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

1. You may copy and distribute verbatim copies of the Library's complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) The modified work must itself be a software library.

b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

d) If a facility in the modified Library refers to a function or a
table of data to be supplied by an application program that uses
the facility, other than as an argument passed when the facility
is invoked, then you must make a good faith effort to ensure that,
in the event an application does not supply such function or
table, the facility still operates, and performs whatever part of
its purpose remains meaningful.

(For example, a function in a library to compute square roots has
a purpose that is entirely well-defined independent of the
application. Therefore, Subsection 2d requires that any
application-supplied function or table used by this function must
be optional: if the application does not supply it, the square
root function must still compute square roots.)

These requirements apply to the modified work as a whole. If
identifiable sections of that work are not derived from the Library,
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themselves, then this License, and its terms, do not apply to those
sections when you distribute them as separate works. But when you
distribute the same sections as part of a whole which is a work based
on the Library, the distribution of the whole must be on the terms of
this License, whose permissions for other licensees extend to the
entire whole, and thus to each and every part regardless of who wrote
it.

Thus, it is not the intent of this section to claim rights or contest
your rights to work written entirely by you; rather, the intent is to
exercise the right to control the distribution of derivative or
collective works based on the Library.

In addition, mere aggregation of another work not based on the Library
with the Library (or with a work based on the Library) on a volume of
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the scope of this License.

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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also compile or
link a "work that uses the Library" with the Library to produce a 
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modification of the work for the customer's own use and reverse 
engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the 
Library is used in it and that the Library and its use are covered by 
this License. You must supply a copy of this License. If the work 
during execution displays copyright notices, you must include the 
copyright notice for the Library among them, as well as a reference 
directing the user to the copy of this License. Also, you must do one 
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a) Accompany the work with the complete corresponding 
machine-readable source code for the Library including whatever 
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uses the Library", as object code and/or source code, so that the 
user can modify the Library and then relink to produce a modified 
executable containing the modified Library. (It is understood 
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to use the modified definitions.)

b) Accompany the work with a written offer, valid for at 
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specified in Subsection 6a, above, for a charge no more 
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c) If distribution of the work is made by offering access to copy 
from a designated place, offer equivalent access to copy the above 
specified materials from the same place.

d) Verify that the user has already received a copy of these 
materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the 
Library" must include any data and utility programs needed for 
reproducing the executable from it. However, as a special exception, 
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components (compiler, kernel, and so on) of the operating system on 
which the executable runs, unless that component itself accompanies 
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It may happen that this requirement contradicts the license
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7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

   a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.

   b) Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

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END OF TERMS AND CONDITIONS

Appendix: How to Apply These Terms to Your New Libraries

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Also add information on how to contact you by electronic and paper mail.

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<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

That's all there is to it!

1.1587 boost-defaults 1.65.1.0ubuntu1

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This package was debianized by Michiel Sikkes <michiel@eyesopened.nl> on
It was downloaded from http://code.launchpad.net/~ubuntu-core-dev/update-manager/main

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Preamble

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To protect your rights, we need to make restrictions that forbid distributors to deny you these rights or to ask you to surrender these rights. These restrictions translate to certain responsibilities for you if you distribute copies of the library or if you modify it.

For example, if you distribute copies of the library, whether gratis or for a fee, you must give the recipients all the rights that we gave you. You must make sure that they, too, receive or can get the source code. If you link other code with the library, you must provide complete object files to the recipients, so that they can relink them with the library after making changes to the library and recompiling it. And you must show them these terms so they know their rights.

We protect your rights with a two-step method: (1) we copyright the library, and (2) we offer you this license, which gives you legal permission to copy, distribute and/or modify the library.

To protect each distributor, we want to make it very clear that there is no warranty for the free library. Also, if the library is modified by someone else and passed on, the recipients should know that what they have is not the original version, so that the original author's reputation will not be affected by problems that might be introduced by others.

Finally, software patents pose a constant threat to the existence of any free program. We wish to make sure that a company cannot effectively restrict the users of a free program by obtaining a restrictive license from a patent holder. Therefore, we insist that any patent license obtained for a version of the library must be consistent with the full freedom of use specified in this license.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License. This license, the GNU Lesser General Public License, applies to certain designated libraries, and is quite different from the ordinary General Public License. We use this license for certain libraries in order to permit linking those libraries into non-free programs.

When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the
entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

Although the Lesser General Public License is Less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

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A "library" means a collection of software functions and/or data
prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification".)

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

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You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) The modified work must itself be a software library.

b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

c) You must cause the whole of the work to be licensed at no
charge to all third parties under the terms of this License.

d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

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1.1591 d3-dsv 1.2.0

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1.1592 ec2-net-utils 1.4-43.amzn2

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* /opt/cola/permits/1150912892_1643233478.23/0/amazon-ec2-net-utils-main-zip/amazon-ec2-net-utils-
main/bin/setup-policy-routes.sh

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Name:    amazon-ec2-net-utils
Version: 2.0.0
Release: 1% {?dist}
Summary: utilities for managing network interfaces in Amazon EC2

License: Apache 2.0
URL:      https://github.com/aws/amazon-ec2-net-utils/
Source0:  amazon-ec2-net-utils-%{version}.tar.xz

BuildArch: noarch
BuildRequires: make
Requires: systemd-networkd, udev, curl, iproute

%description
amazon-ec2-net-utils-ng provides udev integration and helper utilities
to manage network configuration in the Amazon EC2 cloud environment

%prep

%autosetup -n %{name}-%{version}

%install
make install DESTDIR=%{buildroot} PREFIX=/usr

%files
%{_sysconfdir}/sysctl.d/90-ipv6-dad.conf
%{_sysconfdir}/systemd/network/80-ec2.network
%{_sysconfdir}/systemd/system/policy-routes@.service
%{_sysconfdir}/systemd/system/refresh-policy-routes@.service
%{_sysconfdir}/systemd/system/refresh-policy-routes@.timer

%{_sysconfdir}/udev/rules.d/98-eni.rules
%{_sysconfdir}/udev/rules.d/99-vpc-policy-routes.rules
%{_bindir}/setup-policy-routes

%post
setup_policy_routes() { 
    local iface node
    for node in /sys/class/net/*; do
        iface=$(basename $node)
        unset ID_NET_DRIVER
        eval $(udevadm info --export --query=property /sys/class/net/$iface)
        case $ID_NET_DRIVER in
            ena|ixgbevf|vif)
                systemctl start policy-routes@${iface}.service
                systemctl start refresh-policy-routes@${iface}.timer
                
            *
        esac
    done
}

if [ $1 == 1 ]; then
    systemctl enable systemd-networkd.service
    systemctl enable systemd-resolved.service

systemctl disable NetworkManager-wait-online.service
systemctl disable NetworkManager.service
[ -f /etc/resolv.conf ] && mv /etc/resolv.conf /etc/resolv.conf.old
ln -sf /run/systemd/resolve/resolv.conf /etc/resolv.conf
if [ -d /run/systemd ]; then
  systemctl stop NetworkManager.service
  systemctl start systemd-networkd.service
  setup_policy_routes
  systemctl start systemd-resolved.service
fi
fi

%changelog

Found in path(s):
* /opt/cola/permits/1150912892_1643233478.23/0/amazon-ec2-net-utils-main-zip/amazon-ec2-net-utils-
  main/amazon-ec2-net-utils.spec

1.1593 libsigsegv 2.12 1
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1.1603 body-parser 1.19.0

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1.1616 icu 60.2 3ubuntu3

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### Commands to generate dependency files
GEN_DEPS.c=$(CC) -E -MM $(DEFS) $(CPPFLAGS)
GEN_DEPS.cc=$(CXX) -E -MM $(DEFS) $(CPPFLAGS)

### Flags for position independent code
SHAREDLIBCFLAGS = -fPIC
SHAREDLIBCXXFLAGS = -fPIC
SHAREDLIBCPPFLAGS = -DPIC

### Additional flags when building libraries and with threads
THREADSCPPFLAGS = -D_REENTRANT
LIBCPPFLAGS =

### Compiler switch to embed a runtime search path
LD_RPATH=
LD_RPATH_PRE=-Wl,-rpath,

### Compiler switch to embed a library name
LD SONAME = -Wl,-soname -Wl$(notdir $(MIDDLE_SO_TARGET))

### Shared library options
LD_SOOPTIONS= -Wl,-Bsymbolic

### Shared object suffix
SO = so
### Non-shared intermediate object suffix
STATIC_O = ao

### Compilation rules
%.$(STATIC_O): $(srchdir)/%.c
$(COMPILE.c) $(STATICCPPFLAGS) $(STATICCFLAGS) -o $@ $<
%.o: $(srchdir)/%.c
$(COMPILE.c) $(DYNAMICCPPFLAGS) $(DYNAMICCFLAGS) -o $@ $<

%.$(STATIC_O): $(srchdir)/%.cpp
$(COMPILE.cc) $(STATICCPPFLAGS) $(STATICCXXFLAGS) -o $@ $<
%.o: $(srchdir)/%.cpp
$(COMPILE.cc) $(DYNAMICCPPFLAGS) $(DYNAMICCXXFLAGS) -o $@ $<

### Dependency rules
%.d: $(srchdir)/%.c
  @echo "generating dependency information for $<"
  @$(SHELL) -ec '$(GEN_DEPS.c) $< \n | sed 's/\([^/]
\)\(\/.o\|:\)/\1.o $@ : /g' > $@; \
 [ -s $@ ] || rm -f $@’

%.d: $(srchdir)/%.cpp
  @echo "generating dependency information for $<"
  @$(SHELL) -ec '$(GEN_DEPS.cc) $< \n | sed 's/\([^/]
\)\(\/.o\|:\)/\1.o $@ : /g' > $@; \
 [ -s $@ ] || rm -f $@’

### Versioned libraries rules
%.$(SO).$(SO_TARGET_VERSION_MAJOR): %.$(SO).$(SO_TARGET_VERSION)
$(RM) $@ && ln -s $< $@
%.$(SO): %.$(SO).$(SO_TARGET_VERSION_MAJOR)
$(RM) $@ && ln -s $< $@

### Bind internal references

# LDflags that pkgdata will use
BIR_LDFLAGS= -Wl,-Bsymblic

# Dependencies [i.e. map files] for the final library
BIR_DEPS=

### Remove shared library 's'
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If the program does terminal interaction, make it output a short notice like this when it starts in an interactive mode:

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1.1620 unixodbc 2.3.7
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/*+++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++

PSQLODBC.DLL - A library to talk to the PostgreSQL DBMS using ODBC.

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       (For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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medium customarily used for software interchange.

If distribution of object code is made by offering access to copy
from a designated place, then offering equivalent access to copy the
source code from the same place satisfies the requirement to
distribute the source code, even though third parties are not
compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the
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When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

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If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

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When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

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crenshaw
Open Source Used In Cisco Cloud Mailbox Defense -CMD (Project Raptor) April 2021

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cis1c
cis1b
cis19a
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apricot
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apatix
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acciones
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acchost
accesswatch
accesss
accessories
access_logs
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access.cnf
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accelr8
acceleration
acedvm
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acap
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academy
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aadd
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_secu
_scripts
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_pages
_old
_objects
_ncl_subjects.shtml
_ncl_items.shtml
_errors
_backup
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\global.asa
ZendServer
Yahoo
YE
XmlRpc
Xerox_XK35c
XSL
Wsd1
Writable
Winxp_2k
WinME
Win2K_XP
Win2K
TimeSync
TextNum
Technorati
Tatiana
Tables
TRANSACT
TRADEMARK
TIGERJET
THA
TEAC
SystemIndex
Symmetric
Swinging
Styles
String
StrikeIron
StoreDB
Statement
Sqlsrv
Sphinx
SpellChecker
Spanish.lproj
Soap
Smtp
Smd
Smarty
Slipknot
SlideShare
Simpy
Simple_02
SidebarManagement
SessionServlet
Session
Services_JSON
ServiceHostUSGM
Service
SegmentWriter
Secure
Sdk
ScrollingStyle
Sco5
Schema
Scheduler
SaveHandler
Sane
SPX
SOC2005
SNA
Mslanman.os2
Mslanman.dos
Movies
Mouse
Module
Modem
Moda
Mime
Method
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Messaging
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Member
Measure
Materials
Manifest
Manager
Malware
Maintenance_Agent
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MailHide
MachineKeys
MUSIC
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MSOffice
MSNEXPLR
MSLANMAN.OS2
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MSGQUEUE
MRTG
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MPS
MOLE.CFM
MODEMSHR
MODEMS
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MAPS
MAPI
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Logger
Locker
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Lite
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102938
10293
1029
101a
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017
009b
001D
000B
.zshrc
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.www_acl
.users
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.passwords
.passes
.pass
.nsf
.nsconfig
.mysql_history
.members
.jsp
.jpilot
.htpasswd
.fhp
.admin
.access
._LICENSE
.FBCIndex
~tycoons
~pwyowr
~eliteclans
~alex
zz_1
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zuzana8
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zuz019FPH_107559
zope
zoombox
zimage
zh_tw_utf8
zh_cn_utf8
zh_TW.Big5
zh_CN.GB2312
zetageneration
zen_cart
zangband
zaks
z88
yum_commands_files
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ysh
youtubehd
youtube_thumbnails
youtube_dl
yoosearch
yoo_scoop
yoo_phoenix
yoo_mellow
yoo_effects
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yoga.OLD
yoga
ykcee
yiv
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using_samba
usgthrsvc
usersystem
users_profiles
userrank
userprotect
userpics
userphotos
userrnode
userrmsg
userrguide
userrgroups
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userr_info_panel
userr_import
userr_guide
userrPage
userrmms
usdk
usb_drivers
url_regexp
ur_PK
uploadify
upload_icons
upload1
upimages
upgradelogs
updatewww
update1.5.0
uox3
unzip
untested
unsuproles
unsup
unroff
unluck
unload_xml_file
univer
unity
unit
uniproce
unified
under2
undcp
uml
umil
uk_utf8
summercamp
sumipntg
suicavalue
subversion17
subsilver2
sublink1
sublink
sub_image
stylish
styling
style2
style1
study
structs
striking
streetgolf
stoned
stone
stocklibdvm
stockkeymap
stk
stipulation
stereo
steacycom
statuses
statpress
statistik
stationery
statements
start
stars4_xlab
stardict
star2_xlab2
standardwhite
standardred
standardold
standardlogo
standardgreen
standardblue
standard_002
stairs
staceybenben.com/
sssdossier
ssdossier
ssrc
ss_location
ss2
srsengine
node
nobadcase
nobadbraces
no_utf8
no_gr_utf8
no4
nn_utf8
nls
nletter
nld_065_1.5
nl_utf8
nl2k.ab.ca/
nivakysubdomains
nivaky.com/
nivaky.com
ning
nihongo
night
niftyCube
ni
nhc98
ngstore
ngshop4
ngshop3
ngshop2
ngshop
ngecommerce
nexon
newtoi
newtemplate
newsletter4
newsite2
newsite
news_data_003
news_data_002
news_data
news_cats
newposts
newp9_files
newmsg
newitem
newflash
newcsweb
newclassifieds
newbb
new_table_from_mysql
new_table
new_key
mpich
cmpfr
mpegs
mpd5
mpd4
mp4converter
mp3info
mp3audio
moyoo_on_air
moveo_email
move_updown_table
move_updown_key
move_updown_index
move_updown_field
mosahebe
morph
mootools
moorainbow
moodledata
month_1105
month
monsiteweb2
monsiteweb
moire_2005
modulesadmin
modules1
module_support
module3
module2
modularweb
modrewrite
modeling
mod_yoo_slider
mod_yoo_search
mod_yoo_carousel
mod_yoo_accordion
mod_rsform
mod_roktabs
mod_roknavmenu
mod_proxy_html
mod_pj_newslith
mod_perchablogjtags
mod_myapi_fLogin
mod_log_firstbyte
mod_labels_cloud
mod_k2_users
mod_jootube
mod_jinc_news_access
mod_flowplayer
mod_fastcontact
mod_comments_share
mod_ccnewsletter
mod_camp26_gpagerank
mod_blogcal
mod_auth_cas
mod_articlebymonths
mod_articlebydates
mod_aicontactsafe
mockup
mobiquo
mnt
mnemo
mn_utf8
mm_vivthomas2_2
ml_utf8
mklogon
mkinstalldirs
mkdist
mk_utf8
mk20
mixers
miva
missing
miss_Margret
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misc_junk
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mirrors
mirroring
miracl
miotc
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mio
minihobby
mingw
mind2c
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mimp
mimetex
milonic
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miin_event
miin
migration
migemo
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glibc2.3
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glassdildo
gladius
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gk_classes
gja.com.au/
gittorrent.git
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git.git
giola
gimp
giftrans
gift_certificates
giflib
giacxcas
ghostscript
ghis.bt.free.fr/
ghgh
ggz
ggz
ggs
getsimple
get_next_oid
get_db_directories
geoip
gennevilliers
genlogon
generos
generic_modules
gen0
gexbox.org
gbghghg
gb2k
gauche
gamesdownload
gambas
gallup
gallery_thumbs
gallery_import
gallery3d
gallery3
gallery1
galleries
galerie800600
galacticbar
gajeon
fannagioscd
fandev
fan2test
fan2prod
family_tree2
family_tree
family_pic
fakesymmlink
fakeb00k.netau.net/
fairymax
faces2004
facebook
face
fa_utf8
fPlayer
f90gl
f9
f8
f7
f6
f0
ezpdf
ezcart
eyezbd.com/
extrafieldsgroups
extrafieldsgroup
extrafields
extrafield
extra_smbstatus
extra_cart_actions
extlib
extjs3
external_fetch
extension
extended
ext_feeds
express_palmone
expectinggreatthings
expandable_cell
exm
exim.conf
executives
ex50sp1
ex40sp4
ex40sp3
ex40
everadio
eventumrc_example
dialout
diabetesinyoung.com/
dhtmlxtree
dhtmlxext
dhpriv
dhexch
dhcp
dforum
dflt
diff
devupgrd
devserver6.info/
deviantart
develop
detour
detail_img
detail
designs
design_team
design_office
deployment
depcomp
depcache
denzilla
dental
denim
demosurveys
demos2
demo_module
demo11
demo.openmrkt.com/
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deltas
dell_dim_2100_files
delete_xml_file
delete_table
delete_key
delete_index
delete_field
delete
default_pref
deepole
dedication
decisions
dec2004
debugging
debug_blocks
cyec_testing
cyec_phase1
cyberunique
cy_utf8
cwmail_cvtt
cwdaemon
cvs2cli
custom-1
customlang
customers_files
customer_service
customapache
custom_item
custom_field
custom_corners
customValidators
cust_ui_locale
cur
cups
cuisinedemaman.fr/
ctf
csvparse
csvimport
cssprofiles
csound
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csh_winstyle
csh_vista
csh_schrblue
csh_dhx_skyblue
csh_books

csh_bluefolders
csh_bluebooks

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cs01ka
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crystalspace
crossword
crossgrid
cropper
crocodiles
creater

create_xml_file
create_women
create_men
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Maria_Sobko_2
Maria_Sobko
Margulis
MarcoPolo
Manual
Manipulator
Makevars
Makerules
Maintainers
MainPage
Maildir
Magnificent
Magicjack
Magazines
Macromed
MacOSX_v2.50
MacOS
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MXPX
MURA1_HOGLA
MS_MOUSE
MSWORKS
MSSHARE
MSPUB
MSORUN
MSTORE
MSOFFICE
MSMAPI
MSINFO
MSG_BODY
MSFT.NET
MSENV
MSENWIT
MSDAIPP
MSCDM
MSACTVSY
MOUSE
MODI
MISC
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IRMANT
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INSTALLATION
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INI
INFORMAT
INFOPATH
INFFORMS
INETSrv
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IME
IMATION
IMAGE
IDarkShadowI
IDEUTIL
IDEAS
IDE98
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IBMfe
IBMeniin
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I386_NT
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BridalShow
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Boxy
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Bjc2000
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Bella
Belkin_F5D5000_W9x
BeckerCM2
Beatman_PC
BeMobile
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Bass_Lessons
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Base
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Banery
BakeryBar
BadDesign
Backups
Backup
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BULLETS
BSE
AcidTechBlood
Acer
Accessories
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AbiWord
Abdullaevy
Aaargh
AXIS
AWdata
AWDFlash
AUTOSHAP
AUDIO
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AT2560
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ARCHIWUM
ARA
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APText
APPDATA
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APGDRE
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AMR_CNR
AMIFlash
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AGPUtil
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2009071302
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.kde
.ftp
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.backup

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1085407961_1598975110.16/0/liamg-scout-v0-1-0-0-gbfc1c7b-tar-gz/liamg-scout-bfc1c7b/assets/wordlist.txt

1.1622 shared-mime-info 1.9
1.1622.1 Available under license:

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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

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If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

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If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

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changes were used in the work (which must be distributed under
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uses the Library", as object code and/or source code, so that the
user can modify the Library and then relink to produce a modified
executable containing the modified Library. (It is understood
that the user who changes the contents of definitions files in the
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to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the
Library. A suitable mechanism is one that (1) uses at run time a
copy of the library already present on the user's computer system,
rather than copying library functions into the executable, and (2)
will operate properly with a modified version of the library, if
the user installs one, as long as the modified version is
interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at
least three years, to give the same user the materials
specified in Subsection 6a, above, for a charge no more
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d) If distribution of the work is made by offering access to copy
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e) Verify that the user has already received a copy of these
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For an executable, the required form of the "work that uses the
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reproducing the executable from it. However, as a special exception,
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which the executable runs, unless that component itself accompanies
the executable.

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use both them and the Library together in an executable that you
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Gocheck - A rich testing framework for Go

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procfs provides functions to retrieve system, kernel and process metrics from the pseudo-filesystem proc.

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Whether this is true is especially significant if the work can be
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If such an object file uses only numerical parameters, data
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functions (ten lines or less in length), then the use of the object
file is unrestricted, regardless of whether it is legally a derivative
work. (Executables containing this object code plus portions of the
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Otherwise, if the work is a derivative of the Library, you may
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6. As an exception to the Sections above, you may also combine or
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will operate properly with a modified version of the library, if
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* This code is based on code written by Patrick Powell
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1.1630 libjpeg 8c

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/*
   * jcmarker.c
   *
   * Copyright (C) 1991-1998, Thomas G. Lane.
   * Modified 2003-2010 by Guido Vollbeding.
   * This file is part of the Independent JPEG Group's software.
   * For conditions of distribution and use, see the accompanying README file.
   *
   * This file contains routines to write JPEG datastream markers.
   */

Found in path(s):
* /opt/cola/permits/161014486_1646171445.16/0/jpeg-8c-zip/jpeg-8c/jcmarker.c

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/*
   * jmorecfg.h
   *
   * Copyright (C) 1991-1997, Thomas G. Lane.
   * This file is part of the Independent JPEG Group's software.
   * For conditions of distribution and use, see the accompanying README file.
   *
   * This file contains additional configuration options that customize the
   * JPEG software for special applications or support machine-dependent
   * optimizations. Most users will not need to touch this file.
   */

Found in path(s):
* /opt/cola/permits/161014486_1646171445.16/0/jpeg-8c-zip/jpeg-8c/jmorecfg.h

No license file was found, but licenses were detected in source scan.

/*
   * jcprepct.c
   *
* Copyright (C) 1994-1996, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains the compression preprocessing controller.
* This controller manages the color conversion, downsampling,
* and edge expansion steps.
*
* Most of the complexity here is associated with buffering input rows
* as required by the downsampler. See the comments at the head of
* jcprepct.c for the downsampler's needs.
*/

Found in path(s):
* /opt/cola/permits/161014486_1646171445.16/0/jpeg-8c-zip/jpeg-8c/jcprepct.c
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/*
 * jdpostct.c
 *
 * Copyright (C) 1994-1996, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 * This file contains the decompression postprocessing controller.
 * This controller manages the upsampling, color conversion, and color
 * quantization/reduction steps; specifically, it controls the buffering
 * between upsample/color conversion and color quantization/reduction.
 *
 * If no color quantization/reduction is required, then this module has no
 * work to do, and it just hands off to the upsample/color conversion code.
 * An integrated upsample/convert/quantize process would replace this module
 * entirely.
 */

Found in path(s):
* /opt/cola/permits/161014486_1646171445.16/0/jpeg-8c-zip/jpeg-8c/jdpostct.c
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/*
 * jerror.h
 *
 * Copyright (C) 1994-1997, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 * This file defines the error and message codes for the JPEG library.

* Edit this file to add new codes, or to translate the message strings to
* some other language.
* A set of error-reporting macros are defined too. Some applications using
* the JPEG library may wish to include this file to get the error codes
* and/or the macros.
*/

Found in path(s):
* /opt/cola/permits/161014486_1646171445.16/0/jpeg-8c-zip/jpeg-8c/jerror.h
No license file was found, but licenses were detected in source scan.

/*
 * jpeglib.h
 *
 * Copyright (C) 1991-1998, Thomas G. Lane.
 * Modified 2002-2010 by Guido Vollbeding.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file defines the application interface for the JPEG library.
 * Most applications using the library need only include this file,
 * and perhaps jerror.h if they want to know the exact error codes.
 */

Found in path(s):
* /opt/cola/permits/161014486_1646171445.16/0/jpeg-8c-zip/jpeg-8c/jpeglib.h
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/*
 * jversion.h
 *
 * Copyright (C) 1991-2011, Thomas G. Lane, Guido Vollbeding.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains software version identification.
 */

Found in path(s):
* /opt/cola/permits/161014486_1646171445.16/0/jpeg-8c-zip/jpeg-8c/jversion.h
No license file was found, but licenses were detected in source scan.

; For conditions of distribution and use, see the accompanying README file.

Found in path(s):
* /opt/cola/permits/161014486_1646171445.16/0/jpeg-8c-zip/jpeg-8c/jmemdosa.asm
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/*
 * jaricom.c
 *
 * Developed 1997-2009 by Guido Vollbeding.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains probability estimation tables for common use in
 * arithmetic entropy encoding and decoding routines.
 *
 * This data represents Table D.2 in the JPEG spec (ISO/IEC IS 10918-1
 * and CCITT Recommendation ITU-T T.81) and Table 24 in the JBIG spec
 */

Found in path(s):
* /opt/cola/permits/161014486_1646171445.16/0/jpeg-8c-zip/jpeg-8c/jaricom.c
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/*
 * jmemdos.c
 *
 * Copyright (C) 1992-1997, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file provides an MS-DOS-compatible implementation of the system-
 * dependent portion of the JPEG memory manager. Temporary data can be
 * stored in extended or expanded memory as well as in regular DOS files.
 *
 * If you use this file, you must be sure that NEED_FAR_POINTERS is defined
 * if you compile in a small-data memory model; it should NOT be defined if
 * you use a large-data memory model. This file is not recommended if you
 * are using a flat-memory-space 386 environment such as DJGCC or Watcom C.
 * Also, this code will NOT work if struct fields are aligned on greater than
 * 2-byte boundaries.
 *
 * Based on code contributed by Ge' Weijers.
 */

Found in path(s):
* /opt/cola/permits/161014486_1646171445.16/0/jpeg-8c-zip/jpeg-8c/jmemdos.c
No license file was found, but licenses were detected in source scan.

/*
 * rdswitch.c
 *
 * Copyright (C) 1991-1996, Thomas G. Lane.
 */
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains routines to process some of cjpeg's more complicated
* command-line switches. Switches processed here are:
* -qtables file Read quantization tables from text file
* -scans file Read scan script from text file
* -quality N[,N,...] Set quality ratings
* -qslots N[,N,...] Set component quantization table selectors
* -sample HxV[,HxV,...] Set component sampling factors
*/

Found in path(s):
* /opt/cola/permits/161014486_1646171445.16/0/jpeg-8c-zip/jpeg-8c/rdswitch.c
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/#
* wrtarga.c
*
* Copyright (C) 1991-1996, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains routines to write output images in Targa format.
*
* These routines may need modification for non-Unix environments or
* specialized applications. As they stand, they assume output to
* an ordinary stdio stream.
*
* Based on code contributed by Lee Daniel Crocker.
*/

Found in path(s):
* /opt/cola/permits/161014486_1646171445.16/0/jpeg-8c-zip/jpeg-8c/wrtarga.c
No license file was found, but licenses were detected in source scan.

/#
* wrrle.c
*
* Copyright (C) 1991-1996, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains routines to write output images in RLE format.
* The Utah Raster Toolkit library is required (version 3.1 or later).
*
* These routines may need modification for non-Unix environments or
* specialized applications. As they stand, they assume output to
an ordinary stdio stream.

Based on code contributed by Mike Lijewski,
with updates from Robert Hutchinson.

Found in path(s):
* /opt/cola/permits/161014486_1646171445.16/0/jpeg-8c-zip/jpeg-8c/wrrle.c

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*/

cjpeg.c

Copyright (C) 1991-1998, Thomas G. Lane.
Modified 2003-2010 by Guido Vollbeding.
This file is part of the Independent JPEG Group's software.
For conditions of distribution and use, see the accompanying README file.

This file contains a command-line user interface for the JPEG compressor.
It should work on any system with Unix- or MS-DOS-style command lines.

Two different command line styles are permitted, depending on the
compile-time switch TWO_FILE_COMMANDLINE:
cjpeg [options] inputfile outputfile

cjpeg [options] [inputfile]

In the second style, output is always to standard output, which you'd
normally redirect to a file or pipe to some other program. Input is
either from a named file or from standard input (typically redirected).
The second style is convenient on Unix but is unhelpful on systems that
don't support pipes. Also, you MUST use the first style if your system
doesn't do binary I/O to stdin/stdout.
To simplify script writing, the "-outfile" switch is provided. The syntax
cjpeg [options] -outfile outputfile inputfile

works regardless of which command line style is used.

*/

jddctmgr.c

Copyright (C) 1994-1996, Thomas G. Lane.
Modified 2002-2010 by Guido Vollbeding.
This file is part of the Independent JPEG Group's software.
For conditions of distribution and use, see the accompanying README file.
* This file contains the inverse-DCT management logic.
* This code selects a particular IDCT implementation to be used,
* and it performs related housekeeping chores. No code in this file
* is executed per IDCT step, only during output pass setup.
*
* Note that the IDCT routines are responsible for performing coefficient
* dequantization as well as the IDCT proper. This module sets up the
* dequantization multiplier table needed by the IDCT routine.
*/

Found in path(s):
* /opt/cola/permits/161014486_1646171445.16/0/jpeg-8c-zip/jpeg-8c/jddctmgr.c

No license file was found, but licenses were detected in source scan.

/*
* rdppm.c
*
* Copyright (C) 1991-1997, Thomas G. Lane.
* Modified 2009 by Bill Allombert, Guido Vollbeding.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains routines to read input images in PPM/PGM format.
* The extended 2-byte-per-sample raw PPM/PGM formats are supported.
* The PBMPLUS library is NOT required to compile this software
* (but it is highly useful as a set of PPM image manipulation programs).
*
* These routines may need modification for non-Unix environments or
* specialized applications. As they stand, they assume input from
* an ordinary stdio stream. They further assume that reading begins
* at the start of the file; start_input may need work if the
* user interface has already read some data (e.g., to determine that
* the file is indeed PPM format).
*/
/* Portions of this code are based on the PBMPLUS library, which is:
**
** Copyright (C) 1988 by Jef Poskanzer.
**
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*/

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* /opt/cola/permits/161014486_1646171445.16/0/jpeg-8c-zip/jpeg-8c/rdppm.c
No license file was found, but licenses were detected in source scan.

/*
 * jdmerge.c
 *
 * Copyright (C) 1994-1996, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains code for merged upsampling/color conversion.
 *
 * This file combines functions from jdsample.c and jdcolor.c;
 * read those files first to understand what's going on.
 *
 * When the chroma components are to be upsampled by simple replication
 * (ie, box filtering), we can save some work in color conversion by
 * calculating all the output pixels corresponding to a pair of chroma
 * samples at one time. In the conversion equations
 * R = Y + K1 * Cr
 * G = Y + K2 * Cb + K3 * Cr
 * B = Y + K4 * Cb
 * only the Y term varies among the group of pixels corresponding to a pair
 * of chroma samples, so the rest of the terms can be calculated just once.
 * At typical sampling ratios, this eliminates half or three-quarters of the
 * multiplications needed for color conversion.
 *
 * This file currently provides implementations for the following cases:
 * YCbCr => RGB color conversion only.
 * Sampling ratios of 2h1v or 2h2v.
 * No scaling needed at upsample time.
 * Corner-aligned (non-CCIR601) sampling alignment.
 * Other special cases could be added, but in most applications these are
 * the only common cases. (For uncommon cases we fall back on the more
 * general code in jdsample.c and jdcolor.c.)
 */

Found in path(s):
 */opt/cola/permits/161014486_1646171445.16/0/jpeg-8c-zip/jpeg-8c/jdmerge.c
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/*
 * cderror.h
 *
 * Copyright (C) 1994-1997, Thomas G. Lane.
 * Modified 2009 by Guido Vollbeding.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
* This file defines the error and message codes for the cjpeg/djpeg
  * applications. These strings are not needed as part of the JPEG library
  * proper.
* Edit this file to add new codes, or to translate the message strings to
  * some other language.
*/

Found in path(s):
* /opt/cola/permits/161014486_1646171445.16/0/jpeg-8c-zip/jpeg-8c/cderror.h
No license file was found, but licenses were detected in source scan.

/*
* cderror.h
*
* Copyright (C) 1991-1997, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file provides common declarations for the various JPEG modules.
* These declarations are considered internal to the JPEG library; most
* applications using the library shouldn't need to include this file.
*/

Found in path(s):
* /opt/cola/permits/161014486_1646171445.16/0/jpeg-8c-zip/jpeg-8c/jpegint.h
No license file was found, but licenses were detected in source scan.

/*
* jpegint.h
*
* Copyright (C) 1991-1997, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file provides common declarations for the various JPEG modules.
* These declarations are considered internal to the JPEG library; most
* applications using the library shouldn't need to include this file.
*/

Found in path(s):
* /opt/cola/permits/161014486_1646171445.16/0/jpeg-8c-zip/jpeg-8c/jpegint.h
No license file was found, but licenses were detected in source scan.

/*
* rdrle.c
*
* Copyright (C) 1991-1996, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains routines to read input images in Utah RLE format.
* The Utah Raster Toolkit library is required (version 3.1 or later).
*
* These routines may need modification for non-Unix environments or
* specialized applications. As they stand, they assume input from
* an ordinary stdio stream. They further assume that reading begins
* at the start of the file; start_input may need work if the
* user interface has already read some data (e.g., to determine that
* the file is indeed RLE format).
*
* Based on code contributed by Mike Lijewski,
* with updates from Robert Hutchinson.
*/
Found in path(s):
* /opt/cola/permits/161014486_1646171445.16/0/jpeg-8c-zip/jpeg-8c/rdrle.c
No license file was found, but licenses were detected in source scan.

/*
 * jdapimin.c
 *
 * Copyright (C) 1994-1998, Thomas G. Lane.
 * Modified 2009 by Guido Vollbeding.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains application interface code for the decompression half
 * of the JPEG library. These are the "minimum" API routines that may be
 * needed in either the normal full-decompression case or the
 * transcoding-only case.
 *
 * Most of the routines intended to be called directly by an application
 * are in this file or in jdapistd.c. But also see jcomapi.c for routines
 * shared by compression and decompression, and jdtrans.c for the transcoding
 * case.
 */

Found in path(s):
* /opt/cola/permits/161014486_1646171445.16/0/jpeg-8c-zip/jpeg-8c/jdapimin.c
No license file was found, but licenses were detected in source scan.

/*
 * rdbmp.c
 *
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 * Modified 2009-2010 by Guido Vollbeding.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains routines to read input images in Microsoft "BMP"
 * format (MS Windows 3.x, OS/2 1.x, and OS/2 2.x flavors).
 * Currently, only 8-bit and 24-bit images are supported, not 1-bit or
 * 4-bit (feeding such low-depth images into JPEG would be silly anyway).
 * Also, we don't support RLE-compressed files.
 *
 * These routines may need modification for non-Unix environments or
 * specialized applications. As they stand, they assume input from
 * an ordinary stdio stream. They further assume that reading begins
 * at the start of the file; start_input may need work if the
 * user interface has already read some data (e.g., to determine that
 * the file is indeed BMP format).
This code contributed by James Arthur Boucher.

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This file is part of the Independent JPEG Group's software.
For conditions of distribution and use, see the accompanying README file.

This file documents the configuration options that are required to customize the JPEG software for a particular system.

The actual configuration options for a particular installation are stored in jconfig.h. On many machines, jconfig.h can be generated automatically or copied from one of the "canned" jconfig files that we supply. But if you need to generate a jconfig.h file by hand, this file tells you how.

DO NOT EDIT THIS FILE --- IT WON'T ACCOMPLISH ANYTHING.
EDIT A COPY NAMED JCONFIG.H.

These symbols indicate the properties of your machine or compiler.
#define the symbol if yes, #undef it if no.

Does your compiler support function prototypes?
(If not, you also need to use ansi2knr, see install.txt)

#define HAVE_PROTOTYPES

Does your compiler support the declaration "unsigned char"?
#define HAVE_UNSIGNED_CHAR
#define HAVE_UNSIGNED_SHORT

Define "void" as "char" if your compiler doesn't know about type void.
NOTE: be sure to define void such that "void *" represents the most general pointer type, e.g., that returned by malloc().
* actually get "missing structure definition" warnings or errors while
* compiling the JPEG code.
*/
#undef INCOMPLETE_TYPES_BROKEN

/* Define "boolean" as unsigned char, not int, on Windows systems.
*/
#ifdef _WIN32
#ifndef __RPCNDR_H__ /* don't conflict if rpcndr.h already read */
typedef unsigned char boolean;
#endif
#define HAVE_BOOLEAN /* prevent jmorecfg.h from redefining it */
#endif

/* The following options affect code selection within the JPEG library,
* but they don't need to be visible to applications using the library.
* To minimize application namespace pollution, the symbols won't be
* defined unless JPEG_INTERNALS has been defined.
*/
#ifdef JPEG_INTERNALS
/* Define this if your compiler implements ">>" on signed values as a logical
* (unsigned) shift; leave it undefined if ">>" is a signed (arithmetic) shift,
* which is the normal and rational definition.
*/
#undef RIGHT_SHIFT_IS_UNSIGNED
#endif /* JPEG_INTERNALS */

/* The remaining options do not affect the JPEG library proper,
* but only the sample applications cjpeg/djpeg (see cjpeg.c, djpeg.c).
* Other applications can ignore these.
*/
#ifdef JPEG_CJPEG_DJPEG
/* These defines indicate which image (non-JPEG) file formats are allowed. */
#define BMP_SUPPORTED /* BMP image file format */
#define GIF_SUPPORTED /* GIF image file format */
#define PPM_SUPPORTED /* PPM/PGM image file format */
#undef RLE_SUPPORTED /* Utah RLE image file format */
/* Define this if you want to name both input and output files on the command line, rather than using stdout and optionally stdin. You MUST do this if your system can't cope with binary I/O to stdin/stdout. See comments at head of cjpeg.c or djpeg.c. */
#undef TWO_FILE_COMMANDLINE

/* Define this if your system needs explicit cleanup of temporary files. This is crucial under MS-DOS, where the temporary "files" may be areas of extended memory; on most other systems it's not as important. */
#undef NEED_SIGNAL_CATCHER

/* By default, we open image files with fopen(...."rb") or fopen(...."wb"). This is necessary on systems that distinguish text files from binary files, and is harmless on most systems that don't. If you have one of the rare systems that complains about the "b" spec, define this symbol. */
#undef DONT_USE_B_MODE

/* Define this if you want percent-done progress reports from cjpeg/djpeg. */
#undef PROGRESS_REPORT

#endif /* JPEG_CJPEG_DJPEG */

Found in path(s):
* /opt/cola/permits/161014486_1646171445.16/0/jpeg-8c-zip/jpeg-8c/jconfig.txt
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/*
* jmemmac.c
*
* Copyright (C) 1992-1997, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* jmemmac.c provides an Apple Macintosh implementation of the system-dependent portion of the JPEG memory manager.
*
* If you use jmemmac.c, then you must define USE_MAC_MEMMGR in the JPEG_INTERNALS part of jconfig.h.
*
* jmemmac.c uses the Macintosh toolbox routines NewPtr and DisposePtr instead of malloc and free. It accurately determines the amount of
* memory available by using CompactMem. Notice that if left to its
* own devices, this code can chew up all available space in the
* application's zone, with the exception of the rather small "slop"
* factor computed in jpeg_mem_available(). The application can ensure
* that more space is left over by reducing max_memory_to_use.
*
* Large images are swapped to disk using temporary files and System 7.0+'s
* temporary folder functionality.
*
* Note that jmemmac.c depends on two features of MacOS that were first
* introduced in System 7: FindFolder and the FSSpec-based calls.
* If your application uses jmemmac.c and is run under System 6 or earlier,
* and the jpeg library decides it needs a temporary file, it will abort,
* printing error messages about requiring System 7. (If no temporary files
* are created, it will run fine.)
*
* If you want to use jmemmac.c in an application that might be used with
* System 6 or earlier, then you should remove dependencies on FindFolder
* and the FSSpec calls. You will need to replace FindFolder with some
* other mechanism for finding a place to put temporary files, and you
* should replace the FSSpec calls with their HFS equivalents:
*
*   FSpDelete   ->  HDelete
*   FSpGetFInfo ->  HGetFInfo
*   FSpCreate   ->  HCreate
*   FSpOpenDF   ->  HOpen   *** Note: not HOpenDF ***
*   FSMakeFSSpec -> (fill in spec by hand.)
*
* (Use HOpen instead of HOpenDF. HOpen is just a glue-interface to PBHOpen,
* which is on all HFS macs. HOpenDF is a System 7 addition which avoids the
* ages-old problem of names starting with a period.)
*
* Contributed by Sam Bushell (jsam@iagu.on.net) and
* Dan Gildor (gyld@in-touch.com).
*/

Found in path(s):
* /opt/cola/permits/161014486_1646171445.16/0/jpeg-8c-zip/jpeg-8c/jmemmac.c
No license file was found, but licenses were detected in source scan.

*/
* jidctfst.c
*
* Copyright (C) 1994-1998, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains a fast, not so accurate integer implementation of the
inverse DCT (Discrete Cosine Transform). In the IJG code, this routine
must also perform dequantization of the input coefficients.

A 2-D IDCT can be done by 1-D IDCT on each column followed by 1-D IDCT
on each row (or vice versa, but it's more convenient to emit a row at
a time). Direct algorithms are also available, but they are much more
complex and seem not to be any faster when reduced to code.

This implementation is based on Arai, Agui, and Nakajima's algorithm for
scaled DCT. Their original paper (Trans. IEICE E-71(11):1095) is in
Japanese, but the algorithm is described in the Pennebaker & Mitchell
JPEG textbook (see REFERENCES section in file README). The following code
is based directly on figure 4-8 in P&M.

While an 8-point DCT cannot be done in less than 11 multiplies, it is
possible to arrange the computation so that many of the multiplies are
folded into the multiplications or divisions by the JPEG quantization
table entries. The AA&N method leaves only 5 multiplies and 29 adds
to be done in the DCT itself.

The primary disadvantage of this method is that with fixed-point math,
accuracy is lost due to imprecise representation of the scaled
quantization values. The smaller the quantization table entry, the less
precise the scaled value, so this implementation does worse with high-
quality-setting files than with low-quality ones.

/*

Found in path(s):
* /opt/cola/permits/161014486_1646171445.16/0/jpeg-8c-zip/jpeg-8c/jidctfst.c
No license file was found, but licenses were detected in source scan.

*/

jcparam.c

* Copyright (C) 1991-1998, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains optional default-setting code for the JPEG compressor.
* Applications do not have to use this file, but those that don't use it
* must know a lot more about the innards of the JPEG code.
*/

Found in path(s):
* /opt/cola/permits/161014486_1646171445.16/0/jpeg-8c-zip/jpeg-8c/jcparam.c
No license file was found, but licenses were detected in source scan.

*/
* jfdctfst.c
* Copyright (C) 1994-1996, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains a fast, not so accurate integer implementation of the
* forward DCT (Discrete Cosine Transform).
*
* A 2-D DCT can be done by 1-D DCT on each row followed by 1-D DCT
* on each column. Direct algorithms are also available, but they are
* much more complex and seem not to be any faster when reduced to code.
*
* This implementation is based on Arai, Agui, and Nakajima's algorithm for
* scaled DCT. Their original paper (Trans. IEICE E-71(11):1095) is in
* Japanese, but the algorithm is described in the Pennebaker & Mitchell
* JPEG textbook (see REFERENCES section in file README). The following code
* is based directly on figure 4-8 in P&M.
* While an 8-point DCT cannot be done in less than 11 multiplies, it is
* possible to arrange the computation so that many of the multiplies are
* simple scalings of the final outputs. These multiplies can then be
* folded into the multiplications or divisions by the JPEG quantization
* table entries. The AA&N method leaves only 5 multiplies and 29 adds
* to be done in the DCT itself.
* The primary disadvantage of this method is that with fixed-point math,
* accuracy is lost due to imprecise representation of the scaled
* quantization values. The smaller the quantization table entry, the less
* precise the scaled value, so this implementation does worse with high-
* quality-setting files than with low-quality ones.
*/

Found in path(s):
* /opt/cola/permits/161014486_1646171445.16/0/jpeg-8c-zip/jpeg-8c/jfdctfst.c
No license file was found, but licenses were detected in source scan.

/*
* jidctflt.c
* Copyright (C) 1994-1998, Thomas G. Lane.
* Modified 2010 by Guido Vollbeding.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains a floating-point implementation of the
* inverse DCT (Discrete Cosine Transform). In the IJG code, this routine
* must also perform dequantization of the input coefficients.
*
This implementation should be more accurate than either of the integer IDCT implementations. However, it may not give the same results on all machines because of differences in roundoff behavior. Speed will depend on the hardware’s floating point capacity.

A 2-D IDCT can be done by 1-D IDCT on each column followed by 1-D IDCT on each row (or vice versa, but it’s more convenient to emit a row at a time). Direct algorithms are also available, but they are much more complex and seem not to be any faster when reduced to code.

This implementation is based on Arai, Agui, and Nakajima’s algorithm for scaled DCT. Their original paper (Trans. IEICE E-71(11):1095) is in Japanese, but the algorithm is described in the Pennebaker & Mitchell JPEG textbook (see REFERENCES section in file README). The following code is based directly on figure 4-8 in P&M.

While an 8-point DCT cannot be done in less than 11 multiplies, it is possible to arrange the computation so that many of the multiplies are simple scalings of the final outputs. These multiplies can then be folded into the multiplications or divisions by the JPEG quantization table entries. The AA&N method leaves only 5 multiplies and 29 adds to be done in the DCT itself.

The primary disadvantage of this method is that with a fixed-point implementation, accuracy is lost due to imprecise representation of the scaled quantization values. However, that problem does not arise if we use floating point arithmetic.

No license file was found, but licenses were detected in source scan.

/*
 * jutils.c
 *
 * Copyright (C) 1991-1996, Thomas G. Lane.
 * Modified 2009 by Guido Vollbeding.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains tables and miscellaneous utility routines needed for both compression and decompression.
 * Note we prefix all global names with "j" to minimize conflicts with a surrounding application.
 */

No license file was found, but licenses were detected in source scan.
No license file was found, but licenses were detected in source scan.

/*
 * jmemname.c
 *
 * Copyright (C) 1992-1997, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file provides a generic implementation of the system-dependent
 * portion of the JPEG memory manager. This implementation assumes that
 * you must explicitly construct a name for each temp file.
 * Also, the problem of determining the amount of memory available
 * is shoved onto the user.
 */

Found in path(s):
* /opt/cola/permits/161014486_1646171445.16/0/jpeg-8c-zip/jpeg-8c/jmemname.c

No license file was found, but licenses were detected in source scan.

/*
 * jdtrans.c
 *
 * Copyright (C) 1995-1997, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains library routines for transcoding decompression,
 * that is, reading raw DCT coefficient arrays from an input JPEG file.
 * The routines in jdapimin.c will also be needed by a transcoder.
 */

Found in path(s):
* /opt/cola/permits/161014486_1646171445.16/0/jpeg-8c-zip/jpeg-8c/jdtrans.c

No license file was found, but licenses were detected in source scan.

/*
 * djpeg.c
 *
 * Copyright (C) 1991-1997, Thomas G. Lane.
 * Modified 2009 by Guido Vollbeding.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains a command-line user interface for the JPEG decompressor.
 * It should work on any system with Unix- or MS-DOS-style command lines.
 */
* Two different command line styles are permitted, depending on the
  * compile-time switch TWO_FILE_COMMANDLINE:
  * `djpeg [options] inputfile outputfile`
  * `djpeg [options] [inputfile]`
  * In the second style, output is always to standard output, which you'd
  * normally redirect to a file or pipe to some other program. Input is
  * either from a named file or from standard input (typically redirected).
  * The second style is convenient on Unix but is unhelpful on systems that
  * don't support pipes. Also, you MUST use the first style if your system
  * doesn't do binary I/O to stdin/stdout.
  * To simplify script writing, the "-outfile" switch is provided. The syntax
  * `djpeg [options] -outfile outputfile inputfile`
  * works regardless of which command line style is used.
  */

Found in path(s):
* /opt/cola/permits/161014486_1646171445.16/0/jpeg-8c-zip/jpeg-8c/djpeg.c
No license file was found, but licenses were detected in source scan.

/*
  * jpegtran.c

  * Copyright (C) 1995-2010, Thomas G. Lane, Guido Vollbeding.
  * This file is part of the Independent JPEG Group's software.
  * For conditions of distribution and use, see the accompanying README file.
  *
  * This file contains a command-line user interface for JPEG transcoding.
  * It is very similar to cjpeg.c, and partly to djpeg.c, but provides
  * lossless transcoding between different JPEG file formats. It also
  * provides some lossless and sort-of-lossless transformations of JPEG data.
  */

Found in path(s):
* /opt/cola/permits/161014486_1646171445.16/0/jpeg-8c-zip/jpeg-8c/jpegtran.c
No license file was found, but licenses were detected in source scan.

/ *
  * jdcolor.c

  * Copyright (C) 1991-1997, Thomas G. Lane.
  * This file is part of the Independent JPEG Group's software.
  * For conditions of distribution and use, see the accompanying README file.
  *
  * This file contains output colorspace conversion routines.
  */

Found in path(s):
* /opt/cola/permits/161014486_1646171445.16/0/jpeg-8c-zip/jpeg-8c/jdcolor.c
No license file was found, but licenses were detected in source scan.

The Independent JPEG Group's JPEG software

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README for release 8c of 16-Jan-2011

=========================================

This distribution contains the eighth public release of the Independent JPEG Group's free JPEG software. You are welcome to redistribute this software and to use it for any purpose, subject to the conditions under LEGAL ISSUES, below.

This software is the work of Tom Lane, Guido Vollbeding, Philip Gladstone, Bill Allombert, Jim Boucher, Lee Crocker, Bob Friesenhahn, Ben Jackson, Julian Minguillon, Luis Ortiz, George Phillips, Davide Rossi, Ge' Weijers, and other members of the Independent JPEG Group.

IJG is not affiliated with the official ISO JPEG standards committee.

DOCUMENTATION ROADMAP

==============

This file contains the following sections:

OVERVIEW General description of JPEG and the IJG software.
LEGAL ISSUES Copyright, lack of warranty, terms of distribution.
REFERENCES Where to learn more about JPEG.
ARCHIVE LOCATIONS Where to find newer versions of this software.
ACKNOWLEDGMENTS Special thanks.
FILE FORMAT WARS Software *not* to get.
TO DO Plans for future IJG releases.

Other documentation files in the distribution are:

User documentation:
install.txt How to configure and install the IJG software.
usage.txt Usage instructions for cjpeg, djpeg, jpegtran,
             rdjpgcom, and wrjpgcom.
*.1 Unix-style man pages for programs (same info as usage.txt).
wizard.txt Advanced usage instructions for JPEG wizards only.
change.log Version-to-version change highlights.

Programmer and internal documentation:
libjpeg.txt How to use the JPEG library in your own programs.
example.c Sample code for calling the JPEG library.
structure.txt Overview of the JPEG library's internal structure.
filelist.txt Road map of IJG files.
coderules.txt Coding style rules --- please read if you contribute code.
Please read at least the files install.txt and usage.txt. Some information can also be found in the JPEG FAQ (Frequently Asked Questions) article. See ARCHIVE LOCATIONS below to find out where to obtain the FAQ article.

If you want to understand how the JPEG code works, we suggest reading one or more of the REFERENCES, then looking at the documentation files (in roughly the order listed) before diving into the code.

OVERVIEW
========

This package contains C software to implement JPEG image encoding, decoding, and transcoding. JPEG (pronounced "jay-peg") is a standardized compression method for full-color and gray-scale images.

This software implements JPEG baseline, extended-sequential, and progressive compression processes. Provision is made for supporting all variants of these processes, although some uncommon parameter settings aren't implemented yet. We have made no provision for supporting the hierarchical or lossless processes defined in the standard.

We provide a set of library routines for reading and writing JPEG image files, plus two sample applications "cjpeg" and "djpeg", which use the library to perform conversion between JPEG and some other popular image file formats. The library is intended to be reused in other applications.

In order to support file conversion and viewing software, we have included considerable functionality beyond the bare JPEG coding/decoding capability: for example, the color quantization modules are not strictly part of JPEG decoding, but they are essential for output to colormapped file formats or colormapped displays. These extra functions can be compiled out of the library if not required for a particular application.

We have also included "jpegtran", a utility for lossless transcoding between different JPEG processes, and "rdjpgcom" and "wrjpgcom", two simple applications for inserting and extracting textual comments in JFIF files.

The emphasis in designing this software has been on achieving portability and flexibility, while also making it fast enough to be useful. In particular, the software is not intended to be read as a tutorial on JPEG. (See the REFERENCES section for introductory material.) Rather, it is intended to be reliable, portable, industrial-strength code. We do not claim to have achieved that goal in every aspect of the software, but we strive for it.

We welcome the use of this software as a component of commercial products. No royalty is required, but we do ask for an acknowledgement in product.
LEGAL ISSUES

In plain English:

1. We don't promise that this software works. (But if you find any bugs, please let us know!)
2. You can use this software for whatever you want. You don't have to pay us.
3. You may not pretend that you wrote this software. If you use it in a program, you must acknowledge somewhere in your documentation that you've used the IJG code.

In legalese:

The authors make NO WARRANTY or representation, either express or implied, with respect to this software, its quality, accuracy, merchantability, or fitness for a particular purpose. This software is provided "AS IS", and you, its user, assume the entire risk as to its quality and accuracy.

This software is copyright (C) 1991-2011, Thomas G. Lane, Guido Vollbeding. All Rights Reserved except as specified below.

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(1) If any part of the source code for this software is distributed, then this README file must be included, with this copyright and no-warranty notice unaltered; and any additions, deletions, or changes to the original files must be clearly indicated in accompanying documentation.
(2) If only executable code is distributed, then the accompanying documentation must state that "this software is based in part on the work of the Independent JPEG Group".
(3) Permission for use of this software is granted only if the user accepts full responsibility for any undesirable consequences; the authors accept NO LIABILITY for damages of any kind.

These conditions apply to any software derived from or based on the IJG code, not just to the unmodified library. If you use our work, you ought to acknowledge us.

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We specifically permit and encourage the use of this software as the basis of commercial products, provided that all warranty or liability claims are assumed by the product vendor.

ansi2knr.c is included in this distribution by permission of L. Peter Deutsch, sole proprietor of its copyright holder, Aladdin Enterprises of Menlo Park, CA. ansi2knr.c is NOT covered by the above copyright and conditions, but instead by the usual distribution terms of the Free Software Foundation; principally, that you must include source code if you redistribute it. (See the file ansi2knr.c for full details.) However, since ansi2knr.c is not needed as part of any program generated from the IJG code, this does not limit you more than the foregoing paragraphs do.

The Unix configuration script "configure" was produced with GNU Autoconf. It is copyright by the Free Software Foundation but is freely distributable. The same holds for its supporting scripts (config.guess, config.sub, ltmain.sh). Another support script, install-sh, is copyright by X Consortium but is also freely distributable.

The IJG distribution formerly included code to read and write GIF files. To avoid entanglement with the Unisys LZW patent, GIF reading support has been removed altogether, and the GIF writer has been simplified to produce "uncompressed GIFs". This technique does not use the LZW algorithm; the resulting GIF files are larger than usual, but are readable by all standard GIF decoders.

We are required to state that
"The Graphics Interchange Format(c) is the Copyright property of CompuServe Incorporated. GIF(sm) is a Service Mark property of CompuServe Incorporated."

REFERENCES
==========

We recommend reading one or more of these references before trying to understand the innards of the JPEG software.

The best short technical introduction to the JPEG compression algorithm is Wallace, Gregory K. "The JPEG Still Picture Compression Standard", Communications of the ACM, April 1991 (vol. 34 no. 4), pp. 30–44. (Adjacent articles in that issue discuss MPEG motion picture compression, applications of JPEG, and related topics.) If you don't have the CACM issue handy, a PostScript file containing a revised version of Wallace's article is available at http://www.iij.org/files/wallace.ps.gz. The file (actually a preprint for an article that appeared in IEEE Trans. Consumer Electronics) omits the sample images that appeared in CACM, but it includes corrections.
and some added material. Note: the Wallace article is copyright ACM and IEEE, and it may not be used for commercial purposes.

A somewhat less technical, more leisurely introduction to JPEG can be found in "The Data Compression Book" by Mark Nelson and Jean-loup Gailly, published by M&T Books (New York), 2nd ed. 1996, ISBN 1-55851-434-1. This book provides good explanations and example C code for a multitude of compression methods including JPEG. It is an excellent source if you are comfortable reading C code but don't know much about data compression in general. The book's JPEG sample code is far from industrial-strength, but when you are ready to look at a full implementation, you've got one here...


Although this is by far the most detailed and comprehensive exposition of JPEG publicly available, we point out that it is still missing an explanation of the most essential properties and algorithms of the underlying DCT technology.

If you think that you know about DCT-based JPEG after reading this book, then you are in delusion. The real fundamentals and corresponding potential of DCT-based JPEG are not publicly known so far, and that is the reason for all the mistaken developments taking place in the image coding domain.


IJG JPEG 8 introduces an implementation of the JPEG SmartScale extension which is specified in a contributed document at ITU and ISO with title "ITU-T JPEG-Plus Proposal for Extending ITU-T T.81 for Advanced Image Coding", April 2006, Geneva, Switzerland. The latest version of the document is Revision 3.

The JPEG standard does not specify all details of an interchangeable file format. For the omitted details we follow the "JFIF" conventions, revision 1.02. JFIF 1.02 has been adopted as an Ecma International Technical Report and thus received a formal publication status. It is available as a free download in PDF format from http://www.ecma-international.org/publications/techreports/E-TR-098.htm. A PostScript version of the JFIF document is available at http://www.ijg.org/files/jfif.ps.gz. There is also a plain text version at http://www.ijg.org/files/jfif.txt.gz, but it is missing the figures.
The TIFF 6.0 file format specification can be obtained by FTP from ftp://ftp.sgi.com/graphics/tiff/TIFF6.ps.gz. The JPEG incorporation scheme found in the TIFF 6.0 spec of 3-June-92 has a number of serious problems. IJG does not recommend use of the TIFF 6.0 design (TIFF Compression tag 6). Instead, we recommend the JPEG design proposed by TIFF Technical Note #2 (Compression tag 7). Copies of this Note can be obtained from http://www.ijg.org/files/. It is expected that the next revision of the TIFF spec will replace the 6.0 JPEG design with the Note's design. Although IJG's own code does not support TIFF/JPEG, the free libtiff library uses our library to implement TIFF/JPEG per the Note.

ARCHIVE LOCATIONS
==================

The "official" archive site for this software is www.ijg.org. The most recent released version can always be found there in directory "files". This particular version will be archived as http://www.ijg.org/files/jpegsrc.v8c.tar.gz, and in Windows-compatible "zip" archive format as http://www.ijg.org/files/jpegsrc8c.zip.


If you don't have Web or FTP access, send e-mail to mail-server@rtfm.mit.edu with body

send usenet/news.answers/jpeg-faq/part1
send usenet/news.answers/jpeg-faq/part2

ACKNOWLEDGMENTS
=================

Thank to Juergen Bruder for providing me with a copy of the common DCT algorithm article, only to find out that I had come to the same result in a more direct and comprehensible way with a more generative approach.

Thank to Istvan Sebestyen and Joan L. Mitchell for inviting me to the ITU JPEG (Study Group 16) meeting in Geneva, Switzerland.

Thank to Thomas Wiegand and Gary Sullivan for inviting me to the Joint Video Team (MPEG & ITU) meeting in Geneva, Switzerland.

Thank to John Korejwa and Massimo Ballerini for inviting me to fruitful consultations in Boston, MA and Milan, Italy.
Thank to Hendrik Elstner, Roland Fassauer, Simone Zuck, Guenther Maier-Gerber, Walter Stoeber, Fred Schmitz, and Norbert Braunagel for corresponding business development.

Thank to Nico Zschach and Dirk Stelling of the technical support team at the Digital Images company in Halle for providing me with extra equipment for configuration tests.

Thank to Richard F. Lyon (then of Foveon Inc.) for fruitful communication about JPEG configuration in Sigma Photo Pro software.

Thank to Andrew Finkenstadt for hosting the ijg.org site.

Last but not least special thank to Thomas G. Lane for the original design and development of this singular software package.

FILE FORMAT WARS
=================

The ISO JPEG standards committee actually promotes different formats like "JPEG 2000" or "JPEG XR" which are incompatible with original DCT-based JPEG and which are based on faulty technologies. IJG therefore does not and will not support such momentary mistakes (see REFERENCES). We have little or no sympathy for the promotion of these formats. Indeed, one of the original reasons for developing this free software was to help force convergence on common, interoperable format standards for JPEG files. Don't use an incompatible file format!
(In any case, our decoder will remain capable of reading existing JPEG image files indefinitely.)

TO DO
=====

Version 8 is the first release of a new generation JPEG standard to overcome the limitations of the original JPEG specification. More features are being prepared for coming releases...

Please send bug reports, offers of help, etc. to jpeg-info@uc.ag.

Found in path(s):
/*
* /opt/cola/permits/161014486_1646171445.16/0/jpeg-8c-zip/jpeg-8c/README
No license file was found, but licenses were detected in source scan.

/*
* jmemmgr.c
*
* Copyright (C) 1991-1997, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains the JPEG system-independent memory management
* routines. This code is usable across a wide variety of machines; most
* of the system dependencies have been isolated in a separate file.
* The major functions provided here are:
* * pool-based allocation and freeing of memory;
* * policy decisions about how to divide available memory among the
*   virtual arrays;
* * control logic for swapping virtual arrays between main memory and
*   backing storage.
* The separate system-dependent file provides the actual backing-storage
* access code, and it contains the policy decision about how much total
* main memory to use.
* This file is system-dependent in the sense that some of its functions
* are unnecessary in some systems. For example, if there is enough virtual
* memory so that backing storage will never be used, much of the virtual
* array control logic could be removed. (Of course, if you have that much
* memory then you shouldn't care about a little bit of unused code...)
*/

Found in path(s):
* /opt/cola/permits/161014486_1646171445.16/0/jpeg-8c-zip/jpeg-8c/jmemmgr.c
No license file was found, but licenses were detected in source scan.

/*
* jidctint.c
*
* Copyright (C) 1991-1998, Thomas G. Lane.
* Modification developed 2002-2009 by Guido Vollbeding.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains a slow-but-accurate integer implementation of the
* inverse DCT (Discrete Cosine Transform). In the IJG code, this routine
* must also perform dequantization of the input coefficients.
*
* A 2-D IDCT can be done by 1-D IDCT on each column followed by 1-D IDCT
* on each row (or vice versa, but it's more convenient to emit a row at
* a time). Direct algorithms are also available, but they are much more
* complex and seem not to be any faster when reduced to code.
*
* This implementation is based on an algorithm described in
* C. Loeffler, A. Ligtenberg and G. Moschytz, "Practical Fast 1-D DCT
* Algorithms with 11 Multiplications", Proc. Int'l. Conf. on Acoustics,
* The primary algorithm described there uses 11 multiplies and 29 adds.
* We use their alternate method with 12 multiplies and 32 adds.
* The advantage of this method is that no data path contains more than one
  multiplication; this allows a very simple and accurate implementation in
  scaled fixed-point arithmetic, with a minimal number of shifts.
*
* We also provide IDCT routines with various output sample block sizes for
  direct resolution reduction or enlargement and for direct resolving the
  common 2x1 and 1x2 subsampling cases without additional resampling: NxN
  (N=1...16), 2NxN, and Nx2N (N=1...8) pixels for one 8x8 input DCT block.
*
* For N<8 we simply take the corresponding low-frequency coefficients of
  the 8x8 input DCT block and apply an NxN point IDCT on the sub-block
  to yield the downscaled outputs.
* This can be seen as direct low-pass downsampling from the DCT domain
  point of view rather than the usual spatial domain point of view,
  yielding significant computational savings and results at least
  as good as common bilinear (averaging) spatial downsampling.
*  
* For N>8 we apply a partial NxN IDCT on the 8 input coefficients as
  lower frequencies and higher frequencies assumed to be zero.
* It turns out that the computational effort is similar to the 8x8 IDCT
  regarding the output size.
* Furthermore, the scaling and descaling is the same for all IDCT sizes.
*  
* CAUTION: We rely on the FIX() macro except for the N=1,2,4,8 cases
  since there would be too many additional constants to pre-calculate.
*/

Found in path(s):
* /opt/cola/permits/161014486_1646171445.16/0/jpeg-8c-zip/jpeg-8c/jidctint.c
No license file was found, but licenses were detected in source scan.

/*
 * wrjpgcom.c
*
* Copyright (C) 1994-1997, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*  
* This file contains a very simple stand-alone application that inserts
* user-supplied text as a COM (comment) marker in a JFIF file.
* This may be useful as an example of the minimum logic needed to parse
* JPEG markers.
*/

Found in path(s):
* /opt/cola/permits/161014486_1646171445.16/0/jpeg-8c-zip/jpeg-8c/wrjpgcom.c
No license file was found, but licenses were detected in source scan.

/*
 * jdarith.c
 *
 * Developed 1997-2009 by Guido Vollbeding.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains portable arithmetic entropy decoding routines for JPEG
 *
 * Both sequential and progressive modes are supported in this single module.
 *
 * Suspension is not currently supported in this module.
 */

Found in path(s):
* /opt/cola/permits/161014486_1646171445.16/0/jpeg-8c-zip/jpeg-8c/jdarith.c
No license file was found, but licenses were detected in source scan.

/*
 * jcapimin.c
 *
 * Copyright (C) 1994-1998, Thomas G. Lane.
 * Modified 2003-2010 by Guido Vollbeding.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains application interface code for the compression half
 * of the JPEG library.  These are the "minimum" API routines that may be
 * needed in either the normal full-compression case or the transcoding-only
 * case.
 *
 * Most of the routines intended to be called directly by an application
 * are in this file or in jcapistd.c.  But also see jparam.c for
 * parameter-setup helper routines, jomapi.c for routines shared by
 * compression and decompression, and jctrans.c for the transcoding case.
 */

Found in path(s):
* /opt/cola/permits/161014486_1646171445.16/0/jpeg-8c-zip/jpeg-8c/jcapimin.c
No license file was found, but licenses were detected in source scan.

/*
 * jctrans.c
 *
 * Copyright (C) 1995-1998, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains library routines for transcoding compression,
* that is, writing raw DCT coefficient arrays to an output JPEG file.
* The routines in jcapimin.c will also be needed by a transcoder.
*/

Found in path(s):
* /opt/cola/permits/161014486_1646171445.16/0/jpeg-8c-zip/jpeg-8c/jctrans.c
No license file was found, but licenses were detected in source scan.

/*
* transupp.h
*
* Copyright (C) 1997-2009, Thomas G. Lane, Guido Vollbeding.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains declarations for image transformation routines and
* other utility code used by the jpegtran sample application. These are
* NOT part of the core JPEG library. But we keep these routines separate
* from jpegtran.c to ease the task of maintaining jpegtran-like programs
* that have other user interfaces.
*
* NOTE: all the routines declared here have very specific requirements
* about when they are to be executed during the reading and writing of the
* source and destination files. See the comments in transupp.c, or see
* jpegtran.c for an example of correct usage.
*/

Found in path(s):
* /opt/cola/permits/161014486_1646171445.16/0/jpeg-8c-zip/jpeg-8c/transupp.h
No license file was found, but licenses were detected in source scan.

/*
* jcapistd.c
*
* Copyright (C) 1994-1996, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains application interface code for the compression half
* of the JPEG library. These are the "standard" API routines that are
* used in the normal full-compression case. They are not used by a
* transcoding-only application. Note that if an application links in
* jpeg_start_compress, it will end up linking in the entire compressor.
* We thus must separate this file from jcapimin.c to avoid linking the
* whole compression library into a transcoder.
*/

Found in path(s):
* /opt/cola/permits/161014486_1646171445.16/0/jpeg-8c-zip/jpeg-8c/jcapistd.c
No license file was found, but licenses were detected in source scan.

/*
* wrppm.c
*
* Copyright (C) 1991-1996, Thomas G. Lane.
* Modified 2009 by Guido Vollbeding.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains routines to write output images in PPM/PGM format.
* The extended 2-byte-per-sample raw PPM/PGM formats are supported.
* The PBMPLUS library is NOT required to compile this software
* (but it is highly useful as a set of PPM image manipulation programs).
*
* These routines may need modification for non-Unix environments or
* specialized applications. As they stand, they assume output to
* an ordinary stdio stream.
*/

Found in path(s):
* /opt/cola/permits/161014486_1646171445.16/0/jpeg-8c-zip/jpeg-8c/wrppm.c
No license file was found, but licenses were detected in source scan.

IJG JPEG LIBRARY:  FILE LIST

Copyright (C) 1994-2009, Thomas G. Lane, Guido Vollbeding.
This file is part of the Independent JPEG Group's software.
For conditions of distribution and use, see the accompanying README file.

Here is a road map to the files in the IJG JPEG distribution. The
distribution includes the JPEG library proper, plus two application
programs ("cjpeg" and "djpeg") which use the library to convert JPEG
files to and from some other popular image formats. A third application
"jpegtran" uses the library to do lossless conversion between different
variants of JPEG. There are also two stand-alone applications,
"rdjpgcom" and "wrjpgcom".

THE JPEG LIBRARY

================
Include files:

- `jpeglib.h`: JPEG library's exported data and function declarations.
- `jconfig.h`: Configuration declarations. Note: this file is not present in the distribution; it is generated during installation.
- `jmorecfg.h`: Additional configuration declarations; need not be changed for a standard installation.
- `jerror.h`: Declares JPEG library's error and trace message codes.
- `jinclude.h`: Central include file used by all IJG .c files to reference system include files.
- `jpegint.h`: JPEG library's internal data structures.
- `jmemsys.h`: Private declarations for memory management subsystem.
- `jversion.h`: Version information.

Applications using the library should include `jpeglib.h` (which in turn includes `jconfig.h` and `jmorecfg.h`). Optionally, `jerror.h` may be included if the application needs to reference individual JPEG error codes. The other include files are intended for internal use and would not normally be included by an application program. (`cjpeg/djpeg/etc do use jinclude.h, since its function is to improve portability of the whole IJG distribution. Most other applications will directly include the system include files they want, and hence won't need jinclude.h.)

C source code files:

These files contain most of the functions intended to be called directly by an application program:

- `jcapimin.c`: Application program interface: core routines for compression.
- `jcapistd.c`: Application program interface: standard compression.
- `jdapimin.c`: Application program interface: core routines for decompression.
- `jdapistd.c`: Application program interface: standard decompression.
- `jcomapi.c`: Application program interface routines common to compression and decompression.
- `jparam.c`: Compression parameter setting helper routines.
- `jtrans.c`: API and library routines for transcoding compression.
- `jdtrans.c`: API and library routines for transcoding decompression.

Compression side of the library:

- `jinit.c`: Initialization: determines which other modules to use.
- `jmaster.c`: Master control: setup and inter-pass sequencing logic.
- `jmaint.c`: Main buffer controller (preprocessor => JPEG compressor).
- `jprept.c`: Preprocessor buffer controller.
- `jcoefct.c`: Buffer controller for DCT coefficient buffer.
jccolor.c  Color space conversion.
jcsample.c  Downsampling.
jcdctmgr.c  DCT manager (DCT implementation selection & control).
jfdctint.c  Forward DCT using slow-but-accurate integer method.
jfdctfst.c  Forward DCT using faster, less accurate integer method.
jfdctflt.c  Forward DCT using floating-point arithmetic.
jchuff.c  Huffman entropy coding.
jcarith.c  Arithmetic entropy coding.
jcmarker.c  JPEG marker writing.
jmdatadst.c  Data destination managers for memory and stdio output.

Decompression side of the library:

jdmaster.c  Master control: determines which other modules to use.
jdinput.c  Input controller: controls input processing modules.
jdmainct.c  Main buffer controller (JPEG decompressor => postprocessor).
jdcmpct.c  Buffer controller for DCT coefficient buffer.
jdpostct.c  Postprocessor buffer controller.
jdmarker.c  JPEG marker reading.
jdhuff.c  Huffman entropy decoding.
jdarith.c  Arithmetic entropy decoding.
jddctmgr.c  IDCT manager (IDCT implementation selection & control).
jdctint.c  Inverse DCT using slow-but-accurate integer method.
jdctfst.c  Inverse DCT using faster, less accurate integer method.
jdctflt.c  Inverse DCT using floating-point arithmetic.
jdsample.c  Upsampling.
jdcolor.c  Color space conversion.
jdmerge.c  Merged upsampling/color conversion (faster, lower quality).
jquant1.c  One-pass color quantization using a fixed-spacing colormap.
jquant2.c  Two-pass color quantization using a custom-generated colormap.
Also handles one-pass quantization to an externally given map.
jdatasrc.c  Data source managers for memory and stdio input.

Support files for both compression and decompression:

jaricom.c  Tables for common use in arithmetic entropy encoding and decoding routines.
jerror.c  Standard error handling routines (application replaceable).
jmemmgr.c  System-independent (more or less) memory management code.
jutils.c  Miscellaneous utility routines.

jmemmgr.c relies on a system-dependent memory management module. The IJG distribution includes the following implementations of the system-dependent module:

jmemnobs.c  "No backing store": assumes adequate virtual memory exists.
jmemansi.c  Makes temporary files with ANSI-standard routine tmpfile().
jmemname.c  Makes temporary files with program-generated file names.
jmemdos.c: Custom implementation for MS-DOS (16-bit environment only): can use extended and expanded memory as well as temp files.

jmemmac.c: Custom implementation for Apple Macintosh.

Exactly one of the system-dependent modules should be configured into an installed JPEG library (see install.txt for hints about which one to use). On unusual systems you may find it worthwhile to make a special system-dependent memory manager.

Non-C source code files:

jmemdosa.asm: 80x86 assembly code support for jmemdos.c; used only in MS-DOS-specific configurations of the JPEG library.

CJPEG/DJPEG/JPEGTRAN

Include files:

cdjpeg.h: Declarations shared by cjpeg/djpeg/jpegtran modules.
cderror.h: Additional error and trace message codes for cjpeg et al.
transupp.h: Declarations for jpegtran support routines in transupp.c.

C source code files:

cjpeg.c: Main program for cjpeg.
djpeg.c: Main program for djpeg.
jpegtran.c: Main program for jpegtran.
cdjpeg.c: Utility routines used by all three programs.
rdbmp.c: Code to read a colormap file for djpeg's "-map" switch.
rdswitch.c: Code to process some of cjpeg's more complex switches. Also used by jpegtran.
transupp.c: Support code for jpegtran: lossless image manipulations.

Image file reader modules for cjpeg:

rdbmp.c: BMP file input.
rdgif.c: GIF file input (now just a stub).
rdppm.c: PPM/PGM file input.
rdrle.c: Utah RLE file input.
rdtarga.c: Targa file input.

Image file writer modules for djpeg:

wrbmp.c: BMP file output.
wrgif.c: GIF file output (a mere shadow of its former self).
wrppm.c PPM/PGM file output.
wrle.c Utah RLE file output.
wrtarga.c Targa file output.

RDJPGCMD/WRJPGCMD
=================

C source code files:

rdjpgcom.c Stand-alone rdjpgcom application.
wrjpgcom.c Stand-alone wrjpgcom application.

These programs do not depend on the IJG library. They do use jconfig.h and jinclude.h, only to improve portability.

ADDITIONAL FILES
================

Documentation (see README for a guide to the documentation files):

README Master documentation file.
*.txt Other documentation files.
*.1 Documentation in Unix man page format.
change.log Version-to-version change highlights.
example.c Sample code for calling JPEG library.

Configuration/installation files and programs (see install.txt for more info):

configure Unix shell script to perform automatic configuration.
configure.ac Source file for use with Autoconf to generate configure.
ltnain.sh Support scripts for configure (from GNU libtool).
config.guess
config.sub
depcomp
missing
install-sh Install shell script for those Unix systems lacking one.
Makefile.in Makefile input for configure.
Makefile.am Source file for use with Automake to generate Makefile.in.
ckconfig.c Program to generate jconfig.h on non-Unix systems.
jconfig.txt Template for making jconfig.h by hand.
mak*. Sample makefiles for particular systems.
jconfig.* Sample jconfig.h for particular systems.
libjpeg.map Script to generate shared library with versioned symbols.
aclocal.m4 M4 macro definitions for use with Autoconf.
anis2knr.c De-ANSIfier for pre-ANSI C compilers (courtesy of L. Peter Deutsch and Aladdin Enterprises).
Test files (see install.txt for test procedure):

* Source and comparison files for confidence test.
These are binary image files, NOT text files.

Found in path(s):
* /opt/cola/permits/161014486_1646171445.16/0/jpeg-8c-zip/jpeg-8c/filelist.txt
No license file was found, but licenses were detected in source scan.

/*
* jdsample.c
*
* Copyright (C) 1991-1996, Thomas G. Lane.
* Modified 2002-2008 by Guido Vollbeding.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains upsampling routines.
*
* Upsampling input data is counted in "row groups". A row group
* is defined to be (v_samp_factor * DCT_v_scaled_size / min_DCT_v_scaled_size)
* sample rows of each component. Upsampling will normally produce
* max_v_samp_factor pixel rows from each row group (but this could vary
* if the upsampler is applying a scale factor of its own).
*
* An excellent reference for image resampling is
*/

Found in path(s):
* /opt/cola/permits/161014486_1646171445.16/0/jpeg-8c-zip/jpeg-8c/jdsample.c
No license file was found, but licenses were detected in source scan.

/*
* jdatasrc.c
*
* Copyright (C) 1994-1996, Thomas G. Lane.
* Modified 2009-2010 by Guido Vollbeding.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains decompression data source routines for the case of
* reading JPEG data from memory or from a file (or any stdio stream).
* While these routines are sufficient for most applications,
* some will want to use a different source manager.
* IMPORTANT: we assume that fread() will correctly transcribe an array of
* JOCTETs from 8-bit-wide elements on external storage. If char is wider
* than 8 bits on your machine, you may need to do some tweaking.
*/

Found in path(s):
*/opt/cola/permits/161014486_1646171445.16/0/jpeg-8c-zip/jpeg-8c/jdatasrc.c
No license file was found, but licenses were detected in source scan.

/*
* cdjpeg.h
*
* Copyright (C) 1994-1997, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains common declarations for the sample applications
* cjpegs and djpegs. It is NOT used by the core JPEG library.
*/

Found in path(s):
*/opt/cola/permits/161014486_1646171445.16/0/jpeg-8c-zip/jpeg-8c/cdjpeg.h
No license file was found, but licenses were detected in source scan.

/*
* jccolor.c
*
* Copyright (C) 1991-1996, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains input colorspace conversion routines.
*/

Found in path(s):
*/opt/cola/permits/161014486_1646171445.16/0/jpeg-8c-zip/jpeg-8c/jccolor.c
No license file was found, but licenses were detected in source scan.

/*
* transupp.c
*
* Copyright (C) 1997-2009, Thomas G. Lane, Guido Vollbeding.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains image transformation routines and other utility code
* used by the jpegtran sample application. These are NOT part of the core
* JPEG library. But we keep these routines separate from jpegtran.c to
* ease the task of maintaining jpegtran-like programs that have other user
* interfaces.
* /

Found in path(s):
* /opt/cola/permits/161014486_1646171445.16/0/jpeg-8c-zip/jpeg-8c/transupp.c

No license file was found, but licenses were detected in source scan.

IJG JPEG LIBRARY: SYSTEM ARCHITECTURE

Copyright (C) 1991-2009, Thomas G. Lane, Guido Vollbeding.
This file is part of the Independent JPEG Group's software.
For conditions of distribution and use, see the accompanying README file.

This file provides an overview of the architecture of the IJG JPEG software;
that is, the functions of the various modules in the system and the interfaces
between modules. For more precise details about any data structure or calling
convention, see the include files and comments in the source code.

We assume that the reader is already somewhat familiar with the JPEG standard.
The README file includes references for learning about JPEG. The file
libjpeg.txt describes the library from the viewpoint of an application
programmer using the library; it's best to read that file before this one.
Also, the file coderules.txt describes the coding style conventions we use.

In this document, JPEG-specific terminology follows the JPEG standard:
A "component" means a color channel, e.g., Red or Luminance.
A "sample" is a single component value (i.e., one number in the image data).
A "coefficient" is a frequency coefficient (a DCT transform output number).
A "block" is an 8x8 group of samples or coefficients.
An "MCU" (minimum coded unit) is an interleaved set of blocks of size
determined by the sampling factors, or a single block in a
noninterleaved scan.
We do not use the terms "pixel" and "sample" interchangeably. When we say
pixel, we mean an element of the full-size image, while a sample is an element
of the downsampled image. Thus the number of samples may vary across
components while the number of pixels does not. (This terminology is not used
rigorously throughout the code, but it is used in places where confusion would
otherwise result.)

*** System features ***

The IJG distribution contains two parts:
* A subroutine library for JPEG compression and decompression.
* cjpeg/djpeg, two sample applications that use the library to transform
  JFIF JPEG files to and from several other image formats.
cjpeg/djpeg are of no great intellectual complexity; they merely add a simple
command-line user interface and I/O routines for several uncompressed image formats. This document concentrates on the library itself.

We desire the library to be capable of supporting all JPEG baseline, extended sequential, and progressive DCT processes. Hierarchical processes are not supported.

The library does not support the lossless (spatial) JPEG process. Lossless JPEG shares little or no code with lossy JPEG, and would normally be used without the extensive pre- and post-processing provided by this library. We feel that lossless JPEG is better handled by a separate library.

Within these limits, any set of compression parameters allowed by the JPEG spec should be readable for decompression. (We can be more restrictive about what formats we can generate.) Although the system design allows for all parameter values, some uncommon settings are not yet implemented and may never be; nonintegral sampling ratios are the prime example. Furthermore, we treat 8-bit vs. 12-bit data precision as a compile-time switch, not a run-time option, because most machines can store 8-bit pixels much more compactly than 12-bit.

By itself, the library handles only interchange JPEG datastreams --- in particular the widely used JFIF file format. The library can be used by surrounding code to process interchange or abbreviated JPEG datastreams that are embedded in more complex file formats. (For example, libtiff uses this library to implement JPEG compression within the TIFF file format.)

The library includes a substantial amount of code that is not covered by the JPEG standard but is necessary for typical applications of JPEG. These functions preprocess the image before JPEG compression or postprocess it after decompression. They include colorspace conversion, downsampling/upsampling, and color quantization. This code can be omitted if not needed.

A wide range of quality vs. speed tradeoffs are possible in JPEG processing, and even more so in decompression postprocessing. The decompression library provides multiple implementations that cover most of the useful tradeoffs, ranging from very-high-quality down to fast-preview operation. On the compression side we have generally not provided low-quality choices, since compression is normally less time-critical. It should be understood that the low-quality modes may not meet the JPEG standard's accuracy requirements; nonetheless, they are useful for viewers.

*** Portability issues ***

Portability is an essential requirement for the library. The key portability issues that show up at the level of system architecture are:
1. Memory usage. We want the code to be able to run on PC-class machines with limited memory. Images should therefore be processed sequentially (in strips), to avoid holding the whole image in memory at once. Where a full-image buffer is necessary, we should be able to use either virtual memory or temporary files.

2. Near/far pointer distinction. To run efficiently on 80x86 machines, the code should distinguish "small" objects (kept in near data space) from "large" ones (kept in far data space). This is an annoying restriction, but fortunately it does not impact code quality for less brain-damaged machines, and the source code clutter turns out to be minimal with sufficient use of pointer typedefs.

3. Data precision. We assume that "char" is at least 8 bits, "short" and "int" at least 16, "long" at least 32. The code will work fine with larger data sizes, although memory may be used inefficiently in some cases. However, the JPEG compressed datastream must ultimately appear on external storage as a sequence of 8-bit bytes if it is to conform to the standard. This may pose a problem on machines where char is wider than 8 bits. The library represents compressed data as an array of values of typedef JOCTET. If no data type exactly 8 bits wide is available, custom data source and data destination modules must be written to unpack and pack the chosen JOCTET datatype into 8-bit external representation.

*** System overview ***

The compressor and decompressor are each divided into two main sections: the JPEG compressor or decompressor proper, and the preprocessing or postprocessing functions. The interface between these two sections is the image data that the official JPEG spec regards as its input or output: this data is in the colorspace to be used for compression, and it is downsampled to the sampling factors to be used. The preprocessing and postprocessing steps are responsible for converting a normal image representation to or from this form. (Those few applications that want to deal with YCbCr downsampled data can skip the preprocessing or postprocessing step.)

Looking more closely, the compressor library contains the following main elements:

Preprocessing:
* Color space conversion (e.g., RGB to YCbCr).
* Edge expansion and downsampling. Optionally, this step can do simple smoothing --- this is often helpful for low-quality source data.

JPEG proper:
* MCU assembly, DCT, quantization.
* Entropy coding (sequential or progressive, Huffman or arithmetic).
In addition to these modules we need overall control, marker generation, and support code (memory management & error handling). There is also a module responsible for physically writing the output data --- typically this is just an interface to fwrite(), but some applications may need to do something else with the data.

The decompressor library contains the following main elements:

JPEG proper:
* Entropy decoding (sequential or progressive, Huffman or arithmetic).
* Dequantization, inverse DCT, MCU disassembly.

Postprocessing:
* Upsampling. Optionally, this step may be able to do more general rescaling of the image.
* Color space conversion (e.g., YCbCr to RGB). This step may also provide gamma adjustment [ currently it does not ].
* Optional color quantization (e.g., reduction to 256 colors).
* Optional color precision reduction (e.g., 24-bit to 15-bit color).
[This feature is not currently implemented.]

We also need overall control, marker parsing, and a data source module. The support code (memory management & error handling) can be shared with the compression half of the library.

There may be several implementations of each of these elements, particularly in the decompressor, where a wide range of speed/quality tradeoffs is very useful. It must be understood that some of the best speedups involve merging adjacent steps in the pipeline. For example, upsampling, color space conversion, and color quantization might all be done at once when using a low-quality ordered-dither technique. The system architecture is designed to allow such merging where appropriate.

Note: it is convenient to regard edge expansion (padding to block boundaries) as a preprocessing/postprocessing function, even though the JPEG spec includes it in compression/decompression. We do this because downsampling/upsampling can be simplified a little if they work on padded data: it's not necessary to have special cases at the right and bottom edges. Therefore the interface buffer is always an integral number of blocks wide and high, and we expect compression preprocessing to pad the source data properly. Padding will occur only to the next block (8-sample) boundary. In an interleaved-scan situation, additional dummy blocks may be used to fill out MCUs, but the MCU assembly and disassembly logic will create or discard these blocks internally. (This is advantageous for speed reasons, since we avoid DCTing the dummy blocks. It also permits a small reduction in file size, because the compressor can choose dummy block contents so as to minimize their size in compressed form. Finally, it makes the interface buffer specification independent of whether the file is actually interleaved or not.) Applications that wish to deal
directly with the downsampled data must provide similar buffering and padding for odd-sized images.

*** Poor man's object-oriented programming ***

It should be clear by now that we have a lot of quasi-independent processing steps, many of which have several possible behaviors. To avoid cluttering the code with lots of switch statements, we use a simple form of object-style programming to separate out the different possibilities.

For example, two different color quantization algorithms could be implemented as two separate modules that present the same external interface; at runtime, the calling code will access the proper module indirectly through an "object".

We can get the limited features we need while staying within portable C. The basic tool is a function pointer. An "object" is just a struct containing one or more function pointer fields, each of which corresponds to a method name in real object-oriented languages. During initialization we fill in the function pointers with references to whichever module we have determined we need to use in this run. Then invocation of the module is done by indirecting through a function pointer; on most machines this is no more expensive than a switch statement, which would be the only other way of making the required run-time choice. The really significant benefit, of course, is keeping the source code clean and well structured.

We can also arrange to have private storage that varies between different implementations of the same kind of object. We do this by making all the module-specific object structs be separately allocated entities, which will be accessed via pointers in the master compression or decompression struct. The "public" fields or methods for a given kind of object are specified by a commonly known struct. But a module's initialization code can allocate a larger struct that contains the common struct as its first member, plus additional private fields. With appropriate pointer casting, the module's internal functions can access these private fields. (For a simple example, see jdatadst.c, which implements the external interface specified by struct jpeg_destination_mgr, but adds extra fields.)

(Of course this would all be a lot easier if we were using C++, but we are not yet prepared to assume that everyone has a C++ compiler.)

An important benefit of this scheme is that it is easy to provide multiple versions of any method, each tuned to a particular case. While a lot of precalculation might be done to select an optimal implementation of a method, the cost per invocation is constant. For example, the upsampling step might have a "generic" method, plus one or more "hardwired" methods for the most popular sampling factors; the hardwired methods would be faster because they'd use straight-line code instead of for-loops. The cost to determine which
method to use is paid only once, at startup, and the selection criteria are hidden from the callers of the method.

This plan differs a little bit from usual object-oriented structures, in that only one instance of each object class will exist during execution. The reason for having the class structure is that on different runs we may create different instances (choose to execute different modules). You can think of the term "method" as denoting the common interface presented by a particular set of interchangeable functions, and "object" as denoting a group of related methods, or the total shared interface behavior of a group of modules.

*** Overall control structure ***

We previously mentioned the need for overall control logic in the compression and decompression libraries. In IJG implementations prior to v5, overall control was mostly provided by "pipeline control" modules, which proved to be large, unwieldy, and hard to understand. To improve the situation, the control logic has been subdivided into multiple modules. The control modules consist of:

1. Master control for module selection and initialization. This has two responsibilities:
   
   1A. Startup initialization at the beginning of image processing.
       The individual processing modules to be used in this run are selected and given initialization calls.

   1B. Per-pass control. This determines how many passes will be performed and calls each active processing module to configure itself appropriately at the beginning of each pass. End-of-pass processing, where necessary, is also invoked from the master control module.

   Method selection is partially distributed, in that a particular processing module may contain several possible implementations of a particular method, which it will select among when given its initialization call. The master control code need only be concerned with decisions that affect more than one module.

2. Data buffering control. A separate control module exists for each inter-processing-step data buffer. This module is responsible for invoking the processing steps that write or read that data buffer.

   Each buffer controller sees the world as follows:

   input data => processing step A => buffer => processing step B => output data
   |            |               |                   |
   ------------------ controller ------------------
The controller knows the dataflow requirements of steps A and B: how much data they want to accept in one chunk and how much they output in one chunk. Its function is to manage its buffer and call A and B at the proper times.

A data buffer control module may itself be viewed as a processing step by a higher-level control module; thus the control modules form a binary tree with elementary processing steps at the leaves of the tree.

The control modules are objects. A considerable amount of flexibility can be had by replacing implementations of a control module. For example:
* Merging of adjacent steps in the pipeline is done by replacing a control module and its pair of processing-step modules with a single processing-step module. (Hence the possible merges are determined by the tree of control modules.)
* In some processing modes, a given interstep buffer need only be a "strip" buffer large enough to accommodate the desired data chunk sizes. In other modes, a full-image buffer is needed and several passes are required. The control module determines which kind of buffer is used and manipulates virtual array buffers as needed. One or both processing steps may be unaware of the multi-pass behavior.

In theory, we might be able to make all of the data buffer controllers interchangeable and provide just one set of implementations for all. In practice, each one contains considerable special-case processing for its particular job. The buffer controller concept should be regarded as an overall system structuring principle, not as a complete description of the task performed by any one controller.

*** Compression object structure ***

Here is a sketch of the logical structure of the JPEG compression library:

```
|-- Colorspace conversion
    |-- Preprocessing controller --|
         |-- Downsampling
Main controller --|
         |-- Forward DCT, quantize
            |-- Coefficient controller --|
                 |-- Entropy encoding
```

This sketch also describes the flow of control (subroutine calls) during typical image data processing. Each of the components shown in the diagram is an "object" which may have several different implementations available. One or more source code files contain the actual implementation(s) of each object.

The objects shown above are:
* Main controller: buffer controller for the subsampled-data buffer, which holds the preprocessed input data. This controller invokes preprocessing to fill the subsampled-data buffer, and JPEG compression to empty it. There is usually no need for a full-image buffer here; a strip buffer is adequate.

* Preprocessing controller: buffer controller for the downsampling input data buffer, which lies between colorspace conversion and downsampling. Note that a unified conversion/downsampling module would probably replace this controller entirely.

* Colorspace conversion: converts application image data into the desired JPEG color space; also changes the data from pixel-interleaved layout to separate component planes. Processes one pixel row at a time.

* Downsampling: performs reduction of chroma components as required. Optionally may perform pixel-level smoothing as well. Processes a "row group" at a time, where a row group is defined as Vmax pixel rows of each component before downsampling, and Vk sample rows afterwards (remember Vk differs across components). Some downsampling or smoothing algorithms may require context rows above and below the current row group; the preprocessing controller is responsible for supplying these rows via proper buffering. The downsampler is responsible for edge expansion at the right edge (i.e., extending each sample row to a multiple of 8 samples); but the preprocessing controller is responsible for vertical edge expansion (i.e., duplicating the bottom sample row as needed to make a multiple of 8 rows).

* Coefficient controller: buffer controller for the DCT-coefficient data. This controller handles MCU assembly, including insertion of dummy DCT blocks when needed at the right or bottom edge. When performing Huffman-code optimization or emitting a multiscan JPEG file, this controller is responsible for buffering the full image. The equivalent of one fully interleaved MCU row of subsampled data is processed per call, even when the JPEG file is noninterleaved.

* Forward DCT and quantization: Perform DCT, quantize, and emit coefficients. Works on one or more DCT blocks at a time. (Note: the coefficients are now emitted in normal array order, which the entropy encoder is expected to convert to zigzag order as necessary. Prior versions of the IJG code did the conversion to zigzag order within the quantization step.)

* Entropy encoding: Perform Huffman or arithmetic entropy coding and emit the coded data to the data destination module. Works on one MCU per call. For progressive JPEG, the same DCT blocks are fed to the entropy coder during each pass, and the coder must emit the appropriate subset of coefficients.

In addition to the above objects, the compression library includes these
objects:

* Master control: determines the number of passes required, controls overall and per-pass initialization of the other modules.

* Marker writing: generates JPEG markers (except for RSTn, which is emitted by the entropy encoder when needed).

* Data destination manager: writes the output JPEG datastream to its final destination (e.g., a file). The destination manager supplied with the library knows how to write to a stdio stream; for other behaviors, the surrounding application may provide its own destination manager.

* Memory manager: allocates and releases memory, controls virtual arrays (with backing store management, where required).

* Error handler: performs formatting and output of error and trace messages; determines handling of nonfatal errors. The surrounding application may override some or all of this object's methods to change error handling.

* Progress monitor: supports output of "percent-done" progress reports. This object represents an optional callback to the surrounding application: if wanted, it must be supplied by the application.

The error handler, destination manager, and progress monitor objects are defined as separate objects in order to simplify application-specific customization of the JPEG library. A surrounding application may override individual methods or supply its own all-new implementation of one of these objects. The object interfaces for these objects are therefore treated as part of the application interface of the library, whereas the other objects are internal to the library.

The error handler and memory manager are shared by JPEG compression and decompression; the progress monitor, if used, may be shared as well.

*** Decompression object structure ***

Here is a sketch of the logical structure of the JPEG decompression library:

```
|-- Main controller --|
 |                  |-- Postprocessing controller --|
 |                      |                  |-- Color quantization
 |                      |                  |-- Color precision reduction
 |                      |                  |-- Colorspace conversion
 |                      |                  |-- Upsampling
 |                      |                  |-- Dequantize, Inverse DCT
 |                  |-- Coefficient controller --|
 |                  |-- Entropy decoding
```

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As before, this diagram also represents typical control flow. The objects shown are:

* Main controller: buffer controller for the subsampled-data buffer, which holds the output of JPEG decompression proper. This controller's primary task is to feed the postprocessing procedure. Some upsampling algorithms may require context rows above and below the current row group; when this is true, the main controller is responsible for managing its buffer so as to make context rows available. In the current design, the main buffer is always a strip buffer; a full-image buffer is never required.

* Coefficient controller: buffer controller for the DCT-coefficient data. This controller handles MCU disassembly, including deletion of any dummy DCT blocks at the right or bottom edge. When reading a multiscan JPEG file, this controller is responsible for buffering the full image. (Buffering DCT coefficients, rather than samples, is necessary to support progressive JPEG.) The equivalent of one fully interleaved MCU row of subsampled data is processed per call, even when the source JPEG file is noninterleaved.

* Entropy decoding: Read coded data from the data source module and perform Huffman or arithmetic entropy decoding. Works on one MCU per call. For progressive JPEG decoding, the coefficient controller supplies the prior coefficients of each MCU (initially all zeroes), which the entropy decoder modifies in each scan.

* Dequantization and inverse DCT: like it says. Note that the coefficients buffered by the coefficient controller have NOT been dequantized; we merge dequantization and inverse DCT into a single step for speed reasons. When scaled-down output is asked for, simplified DCT algorithms may be used that need fewer coefficients and emit fewer samples per DCT block, not the full 8x8. Works on one DCT block at a time.

* Postprocessing controller: buffer controller for the color quantization input buffer, when quantization is in use. (Without quantization, this controller just calls the upsampler.) For two-pass quantization, this controller is responsible for buffering the full-image data.

* Upsampling: restores chroma components to full size. (May support more general output rescaling, too. Note that if undersized DCT outputs have been emitted by the DCT module, this module must adjust so that properly sized outputs are created.) Works on one row group at a time. This module also calls the color conversion module, so its top level is effectively a buffer controller for the upsampling->color conversion buffer. However, in all but the highest-quality operating modes, upsampling and color conversion are likely to be merged into a single step.
* Colorspace conversion: convert from JPEG color space to output color space, and change data layout from separate component planes to pixel-interleaved. Works on one pixel row at a time.

* Color quantization: reduce the data to colormapped form, using either an externally specified colormap or an internally generated one. This module is not used for full-color output. Works on one pixel row at a time; may require two passes to generate a color map. Note that the output will always be a single component representing colormap indexes. In the current design, the output values are JSAMPLEs, so an 8-bit compilation cannot quantize to more than 256 colors. This is unlikely to be a problem in practice.

* Color reduction: this module handles color precision reduction, e.g., generating 15-bit color (5 bits/primary) from JPEG's 24-bit output. Not quite clear yet how this should be handled... should we merge it with colorspace conversion???

Note that some high-speed operating modes might condense the entire postprocessing sequence to a single module (upsample, color convert, and quantize in one step).

In addition to the above objects, the decompression library includes these objects:

* Master control: determines the number of passes required, controls overall and per-pass initialization of the other modules. This is subdivided into input and output control: jdinput.c controls only input-side processing, while jdmaster.c handles overall initialization and output-side control.

* Marker reading: decodes JPEG markers (except for RSTn).

* Data source manager: supplies the input JPEG datastream. The source manager supplied with the library knows how to read from a stdio stream; for other behaviors, the surrounding application may provide its own source manager.

* Memory manager: same as for compression library.

* Error handler: same as for compression library.

* Progress monitor: same as for compression library.

As with compression, the data source manager, error handler, and progress monitor are candidates for replacement by a surrounding application.

*** Decompression input and output separation ***
To support efficient incremental display of progressive JPEG files, the decompressor is divided into two sections that can run independently:

1. Data input includes marker parsing, entropy decoding, and input into the coefficient controller's DCT coefficient buffer. Note that this processing is relatively cheap and fast.

2. Data output reads from the DCT coefficient buffer and performs the IDCT and all postprocessing steps.

For a progressive JPEG file, the data input processing is allowed to get arbitrarily far ahead of the data output processing. (This occurs only if the application calls jpeg_consume_input(); otherwise input and output run in lockstep, since the input section is called only when the output section needs more data.) In this way the application can avoid making extra display passes when data is arriving faster than the display pass can run. Furthermore, it is possible to abort an output pass without losing anything, since the coefficient buffer is read-only as far as the output section is concerned. See libjpeg.txt for more detail.

A full-image coefficient array is only created if the JPEG file has multiple scans (or if the application specifies buffered-image mode anyway). When reading a single-scan file, the coefficient controller normally creates only a one-MCU buffer, so input and output processing must run in lockstep in this case. jpeg_consume_input() is effectively a no-op in this situation.

The main impact of dividing the decompressor in this fashion is that we must be very careful with shared variables in the cinfo data structure. Each variable that can change during the course of decompression must be classified as belonging to data input or data output, and each section must look only at its own variables. For example, the data output section may not depend on any of the variables that describe the current scan in the JPEG file, because these may change as the data input section advances into a new scan.

The progress monitor is (somewhat arbitrarily) defined to treat input of the file as one pass when buffered-image mode is not used, and to ignore data input work completely when buffered-image mode is used. Note that the library has no reliable way to predict the number of passes when dealing with a progressive JPEG file, nor can it predict the number of output passes in buffered-image mode. So the work estimate is inherently bogus anyway.

No comparable division is currently made in the compression library, because there isn't any real need for it.

*** Data formats ***
Arrays of pixel sample values use the following data structure:

typedef something JSAMPLE; a pixel component value, 0..MAXJSAMPLE
typedef JSAMPLE *JSAMPROW; ptr to a row of samples
typedef JSAMPROW *JSAMPARRAY; ptr to a list of rows
typedef JSAMPARRAY *JSAMPIMAGE; ptr to a list of color-component arrays

The basic element type JSAMPLE will typically be one of unsigned char, (signed) char, or short. Short will be used if samples wider than 8 bits are to be supported (this is a compile-time option). Otherwise, unsigned char is used if possible. If the compiler only supports signed chars, then it is necessary to mask off the value when reading. Thus, all reads of JSAMPLE values must be coded as "GETJSAMPLE(value)", where the macro will be defined as "((value) & 0xFF)" on signed-char machines and "((int) (value))" elsewhere.

With these conventions, JSAMPLE values can be assumed to be >= 0. This helps simplify correct rounding during downsampling, etc. The JPEG standard's specification that sample values run from -128..127 is accommodated by subtracting 128 from the sample value in the DCT step. Similarly, during decompression the output of the IDCT step will be immediately shifted back to 0..255. (NB: different values are required when 12-bit samples are in use. The code is written in terms of MAXJSAMPLE and CENTERJSAMPLE, which will be defined as 255 and 128 respectively in an 8-bit implementation, and as 4095 and 2048 in a 12-bit implementation.)

We use a pointer per row, rather than a two-dimensional JSAMPLE array. This choice costs only a small amount of memory and has several benefits:
* Code using the data structure doesn't need to know the allocated width of the rows. This simplifies edge expansion/compression, since we can work in an array that's wider than the logical picture width.
* Indexing doesn't require multiplication; this is a performance win on many machines.
* Arrays with more than 64K total elements can be supported even on machines where malloc() cannot allocate chunks larger than 64K.
* The rows forming a component array may be allocated at different times without extra copying. This trick allows some speedups in smoothing steps that need access to the previous and next rows.

Note that each color component is stored in a separate array; we don't use the traditional layout in which the components of a pixel are stored together. This simplifies coding of modules that work on each component independently, because they don't need to know how many components there are. Furthermore, we can read or write each component to a temporary file independently, which is helpful when dealing with noninterleaved JPEG files.

In general, a specific sample value is accessed by code such as
GETJSAMPLE(image[colorcomponent][row][col])
where col is measured from the image left edge, but row is measured from the first sample row currently in memory. Either of the first two indexings can be precomputed by copying the relevant pointer.

Since most image-processing applications prefer to work on images in which the components of a pixel are stored together, the data passed to or from the surrounding application uses the traditional convention: a single pixel is represented by N consecutive JSAMPLE values, and an image row is an array of (# of color components)*(image width) JSAMPLEs. One or more rows of data can be represented by a pointer of type JSAMPARRAY in this scheme. This scheme is converted to component-wise storage inside the JPEG library. (Applications that want to skip JPEG preprocessing or postprocessing will have to contend with component-wise storage.)

Arrays of DCT-coefficient values use the following data structure:

typedef short JCOEF; a 16-bit signed integer
typedef JCOEF JBLOCK[DCTSIZE2]; an 8x8 block of coefficients
typedef JBLOCK *JBLOCKROW; ptr to one horizontal row of 8x8 blocks
typedef JBLOCKROW *JBLOCKARRAY; ptr to a list of such rows
typedef JBLOCKARRAY *JBLOCKIMAGE; ptr to a list of color component arrays

The underlying type is at least a 16-bit signed integer; while "short" is big enough on all machines of interest, on some machines it is preferable to use "int" for speed reasons, despite the storage cost. Coefficients are grouped into 8x8 blocks (but we always use #defines DCTSIZE and DCTSIZE2 rather than "8" and "64").

The contents of a coefficient block may be in either "natural" or zigzagged order, and may be true values or divided by the quantization coefficients, depending on where the block is in the processing pipeline. In the current library, coefficient blocks are kept in natural order everywhere; the entropy codecs zigzag or dezigzag the data as it is written or read. The blocks contain quantized coefficients everywhere outside the DCT/IDCT subsystems. (This latter decision may need to be revisited to support variable quantization a la JPEG Part 3.)

Notice that the allocation unit is now a row of 8x8 blocks, corresponding to eight rows of samples. Otherwise the structure is much the same as for samples, and for the same reasons.

On machines where malloc() can't handle a request bigger than 64Kb, this data structure limits us to rows of less than 512 JBLOCKS, or a picture width of 4000+ pixels. This seems an acceptable restriction.
On 80x86 machines, the bottom-level pointer types (JSAMPROW and JBLOCKROW) must be declared as "far" pointers, but the upper levels can be "near" (implying that the pointer lists are allocated in the DS segment).

We use a #define symbol FAR, which expands to the "far" keyword when compiling on 80x86 machines and to nothing elsewhere.

*** Suspendable processing ***

In some applications it is desirable to use the JPEG library as an incremental, memory-to-memory filter. In this situation the data source or destination may be a limited-size buffer, and we can't rely on being able to empty or refill the buffer at arbitrary times. Instead the application would like to have control return from the library at buffer overflow/underrun, and then resume compression or decompression at a later time.

This scenario is supported for simple cases. (For anything more complex, we recommend that the application "bite the bullet" and develop real multitasking capability.) The libjpeg.txt file goes into more detail about the usage and limitations of this capability; here we address the implications for library structure.

The essence of the problem is that the entropy codec (coder or decoder) must be prepared to stop at arbitrary times. In turn, the controllers that call the entropy codec must be able to stop before having produced or consumed all the data that they normally would handle in one call. That part is reasonably straightforward: we make the controller call interfaces include "progress counters" which indicate the number of data chunks successfully processed, and we require callers to test the counter rather than just assume all of the data was processed.

Rather than trying to restart at an arbitrary point, the current Huffman codecs are designed to restart at the beginning of the current MCU after a suspension due to buffer overflow/underrun. At the start of each call, the codec's internal state is loaded from permanent storage (in the JPEG object structures) into local variables. On successful completion of the MCU, the permanent state is updated. (This copying is not very expensive, and may even lead to *improved* performance if the local variables can be registerized.) If a suspension occurs, the codec simply returns without updating the state, thus effectively reverting to the start of the MCU. Note that this implies leaving some data unprocessed in the source/destination buffer (ie, the compressed partial MCU). The data source/destination module interfaces are specified so as to make this possible. This also implies that the data buffer must be large enough to hold a worst-case compressed MCU; a couple thousand bytes should be enough.

In a successive-approximation AC refinement scan, the progressive Huffman decoder has to be able to undo assignments of newly nonzero coefficients if it
suspends before the MCU is complete, since decoding requires distinguishing previously-zero and previously-nonzero coefficients. This is a bit tedious but probably won't have much effect on performance. Other variants of Huffman decoding need not worry about this, since they will just store the same values again if forced to repeat the MCU.

This approach would probably not work for an arithmetic codec, since its modifiable state is quite large and couldn't be copied cheaply. Instead it would have to suspend and resume exactly at the point of the buffer end.

The JPEG marker reader is designed to cope with suspension at an arbitrary point. It does so by backing up to the start of the marker parameter segment, so the data buffer must be big enough to hold the largest marker of interest. Again, a couple KB should be adequate. (A special "skip" convention is used to bypass COM and APPn markers, so these can be larger than the buffer size without causing problems; otherwise a 64K buffer would be needed in the worst case.)

The JPEG marker writer currently does *not* cope with suspension. We feel that this is not necessary; it is much easier simply to require the application to ensure there is enough buffer space before starting. (An empty 2K buffer is more than sufficient for the header markers; and ensuring there are a dozen or two bytes available before calling jpeg_finish_compress() will suffice for the trailer.) This would not work for writing multi-scan JPEG files, but we simply do not intend to support that capability with suspension.

*** Memory manager services ***

The JPEG library's memory manager controls allocation and deallocation of memory, and it manages large "virtual" data arrays on machines where the operating system does not provide virtual memory. Note that the same memory manager serves both compression and decompression operations.

In all cases, allocated objects are tied to a particular compression or decompression master record, and they will be released when that master record is destroyed.

The memory manager does not provide explicit deallocation of objects. Instead, objects are created in "pools" of free storage, and a whole pool can be freed at once. This approach helps prevent storage-leak bugs, and it speeds up operations whenever malloc/free are slow (as they often are). The pools can be regarded as lifetime identifiers for objects. Two pools/lifetimes are defined:
* JPOOL_PERMANENT lasts until master record is destroyed
* JPOOL_IMAGE lasts until done with image (JPEG datastream)

Permanent lifetime is used for parameters and tables that should be carried
across from one datastream to another; this includes all application-visible parameters. Image lifetime is used for everything else. (A third lifetime, JPOOL_PASS = one processing pass, was originally planned. However it was dropped as not being worthwhile. The actual usage patterns are such that the peak memory usage would be about the same anyway; and having per-pass storage substantially complicates the virtual memory allocation rules --- see below.)

The memory manager deals with three kinds of object:
1. "Small" objects. Typically these require no more than 10K-20K total.
2. "Large" objects. These may require tens to hundreds of K depending on image size. Semantically they behave the same as small objects, but we distinguish them for two reasons:
   * On MS-DOS machines, large objects are referenced by FAR pointers, small objects by NEAR pointers.
   * Pool allocation heuristics may differ for large and small objects.
   Note that individual "large" objects cannot exceed the size allowed by type size_t, which may be 64K or less on some machines.
3. "Virtual" objects. These are large 2-D arrays of JSAMPLEs or JBLOCKs (typically large enough for the entire image being processed). The memory manager provides stripwise access to these arrays. On machines without virtual memory, the rest of the array may be swapped out to a temporary file.

(Note: JSAMPARRAY and JBLOCKARRAY data structures are a combination of large objects for the data proper and small objects for the row pointers. For convenience and speed, the memory manager provides single routines to create these structures. Similarly, virtual arrays include a small control block and a JSAMPARRAY or JBLOCKARRAY working buffer, all created with one call.)

In the present implementation, virtual arrays are only permitted to have image lifespan. (Permanent lifespan would not be reasonable, and pass lifespan is not very useful since a virtual array's raison d'être is to store data for multiple passes through the image.) We also expect that only "small" objects will be given permanent lifespan, though this restriction is not required by the memory manager.

In a non-virtual-memory machine, some performance benefit can be gained by making the in-memory buffers for virtual arrays be as large as possible. (For small images, the buffers might fit entirely in memory, so blind swapping would be very wasteful.) The memory manager will adjust the height of the buffers to fit within a prespecified maximum memory usage. In order to do this in a reasonably optimal fashion, the manager needs to allocate all of the virtual arrays at once. Therefore, there isn't a one-step allocation routine for virtual arrays; instead, there is a "request" routine that simply allocates the control block, and a "realize" routine (called just once) that determines space allocation and creates all of the actual buffers. The realize routine must allow for space occupied by non-virtual large objects. (We don't bother to factor in the space needed for small objects, on the
grounds that it isn't worth the trouble.)

To support all this, we establish the following protocol for doing business with the memory manager:

1. Modules must request virtual arrays (which may have only image lifespan) during the initial setup phase, i.e., in their jinit_xxx routines.
2. All "large" objects (including JSAMPARRAYs and JBLOCKARRAYs) must also be allocated during initial setup.
3. realize_virt_arrays will be called at the completion of initial setup.

The above conventions ensure that sufficient information is available for it to choose a good size for virtual array buffers.
Small objects of any lifespan may be allocated at any time. We expect that the total space used for small objects will be small enough to be negligible in the realize_virt_arrays computation.

In a virtual-memory machine, we simply pretend that the available space is infinite, thus causing realize_virt_arrays to decide that it can allocate all the virtual arrays as full-size in-memory buffers. The overhead of the virtual-array access protocol is very small when no swapping occurs.

A virtual array can be specified to be "pre-zeroed"; when this flag is set, never-yet-written sections of the array are set to zero before being made available to the caller. If this flag is not set, never-written sections of the array contain garbage. (This feature exists primarily because the equivalent logic would otherwise be needed in jdcoefct.c for progressive JPEG mode; we may as well make it available for possible other uses.)

The first write pass on a virtual array is required to occur in top-to-bottom order; read passes, as well as any write passes after the first one, may access the array in any order. This restriction exists partly to simplify the virtual array control logic, and partly because some file systems may not support seeking beyond the current end-of-file in a temporary file. The main implication of this restriction is that rearrangement of rows (such as converting top-to-bottom data order to bottom-to-top) must be handled while reading data out of the virtual array, not while putting it in.

*** Memory manager internal structure ***

To isolate system dependencies as much as possible, we have broken the memory manager into two parts. There is a reasonably system-independent "front end" (jmmemmgr.c) and a "back end" that contains only the code likely to change across systems. All of the memory management methods outlined above are implemented by the front end. The back end provides the following routines for use by the front end (none of these routines are known to the rest of the JPEG code):

jpeg_mem_init, jpeg_mem_term system-dependent initialization/shutdown
jpeg_get_small, jpeg_free_small interface to malloc and free library routines
(or their equivalents)

jpeg_get_large, jpeg_free_large interface to FAR malloc/free in MSDOS machines;
else usually the same as
jpeg_get_small/jpeg_free_small

jpeg_mem_available estimate available memory

jpeg_openBacking_store create a backing-store object

read_backing_store, manipulate a backing-store object
write_backing_store,
close_backing_store

On some systems there will be more than one type of backing-store object
(specifically, in MS-DOS a backing store file might be an area of extended memory as well as a disk file). jpeg_openBacking_store is responsible for choosing how to implement a given object. The read/write/close routines are method pointers in the structure that describes a given object; this lets them be different for different object types.

It may be necessary to ensure that backing store objects are explicitly released upon abnormal program termination. For example, MS-DOS won't free extended memory by itself. To support this, we will expect the main program or surrounding application to arrange to call self_destruct (typically via jpeg_destroy) upon abnormal termination. This may require a SIGINT signal handler or equivalent. We don't want to have the back end module install its own signal handler, because that would pre-empt the surrounding application's ability to control signal handling.

The IJG distribution includes several memory manager back end implementations. Usually the same back end should be suitable for all applications on a given system, but it is possible for an application to supply its own back end at need.

*** Implications of DNL marker ***

Some JPEG files may use a DNL marker to postpone definition of the image height (this would be useful for a fax-like scanner's output, for instance). In these files the SOF marker claims the image height is 0, and you only find out the true image height at the end of the first scan.

We could read these files as follows:
1. Upon seeing zero image height, replace it by 65535 (the maximum allowed).
2. When the DNL is found, update the image height in the global image
This implies that control modules must avoid making copies of the image height, and must re-test for termination after each MCU row. This would be easy enough to do.

In cases where image-size data structures are allocated, this approach will result in very inefficient use of virtual memory or much-larger-than-necessary temporary files. This seems acceptable for something that probably won't be a mainstream usage. People might have to forgo use of memory-hogging options (such as two-pass color quantization or noninterleaved JPEG files) if they want efficient conversion of such files. (One could improve efficiency by demanding a user-supplied upper bound for the height, less than 65536; in most cases it could be much less.)

The standard also permits the SOF marker to overestimate the image height, with a DNL to give the true, smaller height at the end of the first scan. This would solve the space problems if the overestimate wasn't too great. However, it implies that you don't even know whether DNL will be used.

This leads to a couple of very serious objections:
1. Testing for a DNL marker must occur in the inner loop of the decompressor's Huffman decoder; this implies a speed penalty whether the feature is used or not.
2. There is no way to hide the last-minute change in image height from an application using the decoder. Thus *every* application using the IJG library would suffer a complexity penalty whether it cared about DNL or not.

We currently do not support DNL because of these problems.

A different approach is to insist that DNL-using files be preprocessed by a separate program that reads ahead to the DNL, then goes back and fixes the SOF marker. This is a much simpler solution and is probably far more efficient. Even if one wants piped input, buffering the first scan of the JPEG file needs a lot smaller temp file than is implied by the maximum-height method. For this approach we'd simply treat DNL as a no-op in the decompressor (at most, check that it matches the SOF image height).

We will not worry about making the compressor capable of outputting DNL. Something similar to the first scheme above could be applied if anyone ever wants to make that work.

Found in path(s):
* /opt/cola/permits/161014486_1646171445.16/0/jpeg-8c-zip/jpeg-8c/structure.txt
No license file was found, but licenses were detected in source scan.
* Copyright (C) 1991-1996, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
* 
* This file contains routines to read input images in Targa format.
* 
* These routines may need modification for non-Unix environments or
* specialized applications. As they stand, they assume input from
* an ordinary stdio stream. They further assume that reading begins
* at the start of the file; start_input may need work if the
* user interface has already read some data (e.g., to determine that
* the file is indeed Targa format).
* 
* Based on code contributed by Lee Daniel Crocker.
*/

Found in path(s):
* /opt/cola/permits/161014486_1646171445.16/0/jpeg-8c-zip/jpeg-8c/rdtarga.c

No license file was found, but licenses were detected in source scan.

/*
* wrbmp.c
*
* Copyright (C) 1994-1996, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
* 
* This file contains routines to write output images in Microsoft "BMP"
* format (MS Windows 3.x and OS/2 1.x flavors).
* Either 8-bit colormapped or 24-bit full-color format can be written.
* No compression is supported.
* 
* These routines may need modification for non-Unix environments or
* specialized applications. As they stand, they assume output to
* an ordinary stdio stream.
* 
* This code contributed by James Arthur Boucher.
*/

Found in path(s):
* /opt/cola/permits/161014486_1646171445.16/0/jpeg-8c-zip/jpeg-8c/wrbmp.c

No license file was found, but licenses were detected in source scan.

/* Copyright (C) 1989, 2000 Aladdin Enterprises. All rights reserved. */
/*
* ansi2knr is distributed in the hope that it will be useful, but WITHOUT ANY
* WARRANTY. No author or distributor accepts responsibility for the
* consequences of using it or for whether it serves any particular purpose or
works at all, unless he says so in writing. Refer to the GNU General Public License (the "GPL") for full details.

Everyone is granted permission to copy, modify and redistribute ansi2knr, but only under the conditions described in the GPL. A copy of this license is supposed to have been given to you along with ansi2knr so you can know your rights and responsibilities. It should be in a file named COPYLEFT, or, if there is no file named COPYLEFT, a file named COPYING. Among other things, the copyright notice and this notice must be preserved on all copies.

We explicitly state here what we believe is already implied by the GPL: if the ansi2knr program is distributed as a separate set of sources and a separate executable file which are aggregated on a storage medium together with another program, this in itself does not bring the other program under the GPL, nor does the mere fact that such a program or the procedures for constructing it invoke the ansi2knr executable bring any other part of the program under the GPL.

*/

Found in path(s):
* /opt/cola/permits/161014486_1646171445.16/0/jpeg-8c-zip/jpeg-8c/ansi2knr.c
No license file was found, but licenses were detected in source scan.

/
* jmemsys.h
*
* Copyright (C) 1992-1997, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
* *
* This include file defines the interface between the system-independent
* and system-dependent portions of the JPEG memory manager. No other
* modules need include it. (The system-independent portion is jmemmgr.c;
* there are several different versions of the system-dependent portion.)
* *
* This file works as-is for the system-dependent memory managers supplied
* in the IJG distribution. You may need to modify it if you write a
* custom memory manager. If system-dependent changes are needed in
* this file, the best method is to #ifdef them based on a configuration
* symbol supplied in jconfig.h, as we have done with USE_MSDOS_MEMMGR
* and USE_MAC_MEMMGR.
*/

Found in path(s):
* /opt/cola/permits/161014486_1646171445.16/0/jpeg-8c-zip/jpeg-8c/jmemsys.h
No license file was found, but licenses were detected in source scan.
/*
 * rdgif.c
 *
 * Copyright (C) 1991-1997, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains routines to read input images in GIF format.
 *
*****************************************************************************
* NOTE: to avoid entanglements with Unisys' patent on LZW compression, *
* the ability to read GIF files has been removed from the IJG distribution. *
* Sorry about that.                                                           *
*****************************************************************************
*
* We are required to state that
* "The Graphics Interchange Format(c) is the Copyright property of
* CompuServe Incorporated. GIF(sm) is a Service Mark property of
* CompuServe Incorporated."
*/

Found in path(s):
* /opt/cola/permits/161014486_1646171445.16/0/jpeg-8c-zip/jpeg-8c/rdgif.c
No license file was found, but licenses were detected in source scan.

/
*
* jdmaster.c
 *
 * Copyright (C) 1991-1997, Thomas G. Lane.
 * Modified 2002-2009 by Guido Vollbeding.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains master control logic for the JPEG decompressor.
 * These routines are concerned with selecting the modules to be executed
 * and with determining the number of passes and the work to be done in each
 * pass.
 */

Found in path(s):
* /opt/cola/permits/161014486_1646171445.16/0/jpeg-8c-zip/jpeg-8c/jdmaster.c
No license file was found, but licenses were detected in source scan.

INSTALLATION INSTRUCTIONS for the Independent JPEG Group's JPEG software

Copyright (C) 1991-2010, Thomas G. Lane, Guido Vollbeding.
This file is part of the Independent JPEG Group's software.
For conditions of distribution and use, see the accompanying README file.
This file explains how to configure and install the IJG software. We have tried to make this software extremely portable and flexible, so that it can be adapted to almost any environment. The downside of this decision is that the installation process is complicated. We have provided shortcuts to simplify the task on common systems. But in any case, you will need at least a little familiarity with C programming and program build procedures for your system.

If you are only using this software as part of a larger program, the larger program's installation procedure may take care of configuring the IJG code. For example, Ghostscript's installation script will configure the IJG code. You don't need to read this file if you just want to compile Ghostscript.

If you are on a Unix machine, you may not need to read this file at all. Try doing
```
./configure
make
make test
```
If that doesn't complain, do
```
make install
```
(better do "make -n install" first to see if the makefile will put the files where you want them). Read further if you run into snags or want to customize the code for your system.

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### BEFORE YOU START

Before installing the software you must unpack the distributed source code. Since you are reading this file, you have probably already succeeded in this task. However, there is a potential for error if you needed to convert the
files to the local standard text file format (for example, if you are on MS-DOS you may have converted LF end-of-line to CR/LF). You must apply such conversion to all the files EXCEPT those whose names begin with "test". The test files contain binary data; if you change them in any way then the self-test will give bad results.

Please check the last section of this file to see if there are hints for the specific machine or compiler you are using.

CONFIGURING THE SOFTWARE
========================

To configure the IJG code for your system, you need to create two files:
* jconfig.h: contains values for system-dependent #define symbols.
* Makefile: controls the compilation process.
(On a non-Unix machine, you may create "project files" or some other substitute for a Makefile. jconfig.h is needed in any environment.)

We provide three different ways to generate these files:
* On a Unix system, you can just run the "configure" script.
* We provide sample jconfig files and makefiles for popular machines; if your machine matches one of the samples, just copy the right sample files to jconfig.h and Makefile.
* If all else fails, read the instructions below and make your own files.

Configuring the software using the automatic "configure" script
---------------------------------------------------------------

If you are on a Unix machine, you can just type
./configure
and let the configure script construct appropriate configuration files.
If you're using "csh" on an old version of System V, you might need to type
sh configure
instead to prevent csh from trying to execute configure itself.
Expect configure to run for a few minutes, particularly on slower machines;
it works by compiling a series of test programs.

Configure was created with GNU Autoconf and it follows the usual conventions for GNU configure scripts. It makes a few assumptions that you may want to override. You can do this by providing optional switches to configure:

* Configure will build both static and shared libraries, if possible.
If you want to build libjpeg only as a static library, say
./configure --disable-shared
If you want to build libjpeg only as a shared library, say
./configure --disable-static
Configure uses GNU libtool to take care of system-dependent shared library building methods.

* Configure will use gcc (GNU C compiler) if it's available, otherwise cc.
  To force a particular compiler to be selected, use the CC option, for example
  
  ./configure CC='cc'
  
  The same method can be used to include any unusual compiler switches.
  For example, on HP-UX you probably want to say
  
  ./configure CC='cc -Aa'
  
  to get HP's compiler to run in ANSI mode.

* The default CFLAGS setting is "-g" for non-gcc compilers, "-g -O2" for gcc.
  You can override this by saying, for example,
  
  ./configure CFLAGS='-O2'
  
  if you want to compile without debugging support.

* Configure will set up the makefile so that "make install" will install files
  into /usr/local/bin, /usr/local/man, etc. You can specify an installation
  prefix other than "/usr/local" by giving configure the option "--prefix=PATH".

* If you don't have a lot of swap space, you may need to enable the IJG
  software's internal virtual memory mechanism. To do this, give the option
  "--enable-maxmem=N" where N is the default maxmemory limit in megabytes.
  This is discussed in more detail under "Selecting a memory manager", below.
  You probably don't need to worry about this on reasonably-sized Unix machines,
  unless you plan to process very large images.

Configure has some other features that are useful if you are cross-compiling
or working in a network of multiple machine types; but if you need those
features, you probably already know how to use them.

Configuring the software using one of the supplied jconfig and makefile files

If you have one of these systems, you can just use the provided configuration
files:

Makefile jconfig file System and/or compiler

makefile.manx jconfig.manx Amiga, Manx Aztec C
makefile.sas jconfig.sas Amiga, SAS C
makeproj.mac jconfig.mac Apple Macintosh, Metrowerks CodeWarrior
mak*jpeg.st jconfig.st Atari ST/STE/TT, Pure C or Turbo C
makefile.bcc jconfig.bcc MS-DOS or OS/2, Borland C
makefile.dj jconfig.dj DOS, DJGPP (Delorie's port of GNU C)
makefile.mc6 jconfig.mc6 MS-DOS, Microsoft C (16-bit only)
makefile.wat jconfig.wat MS-DOS, OS/2, or Windows NT, Watcom C
makefile.vc jconfig.vc Windows NT/95, MS Visual C++
make*.vc jconfig.vc Windows NT/95, MS Visual C++ 6
make*.v10jconfig.vc Windows NT/95, MS Visual C++ 2010 (v10)
makefile.mms jconfig.vms Digital VMS, with MMS software
makefile.vms jconfig.vms Digital VMS, without MMS software

Copy the proper jconfig file to jconfig.h and the makefile to Makefile (or whatever your system uses as the standard makefile name). For more info see the appropriate system-specific hints section near the end of this file.

Configuring the software by hand
--------------------------------

First, generate a jconfig.h file. If you are moderately familiar with C, the comments in jconfig.txt should be enough information to do this; just copy jconfig.txt to jconfig.h and edit it appropriately. Otherwise, you may prefer to use the ckconfig.c program. You will need to compile and execute ckconfig.c by hand --- we hope you know at least enough to do that. ckconfig.c may not compile the first try (in fact, the whole idea is for it to fail if anything is going to). If you get compile errors, fix them by editing ckconfig.c according to the directions given in ckconfig.c. Once you get it to run, it will write a suitable jconfig.h file, and will also print out some advice about which makefile to use.

You may also want to look at the canned jconfig files, if there is one for a system similar to yours.

Second, select a makefile and copy it to Makefile (or whatever your system uses as the standard makefile name). The most generic makefiles we provide are
makefile.ansi: if your C compiler supports function prototypes
makefile.unix: if not.
(You have function prototypes if ckconfig.c put "#define HAVE_PROTOTYPES" in jconfig.h.) You may want to start from one of the other makefiles if there is one for a system similar to yours.

Look over the selected Makefile and adjust options as needed. In particular you may want to change the CC and CFLAGS definitions. For instance, if you are using GCC, set CC=gcc. If you had to use any compiler switches to get ckconfig.c to work, make sure the same switches are in CFLAGS.

If you are on a system that doesn't use makefiles, you'll need to set up project files (or whatever you do use) to compile all the source files and link them into executable files cjpeg, djpeg, jpegtran, rdjpgcom, and wrjpgcom. See the file lists in any of the makefiles to find out which files go into each program. Note that the provided makefiles all make a "library" file libjpeg first, but you don't have to do that if you don't want to; the file
lists identify which source files are actually needed for compression, decompression, or both. As a last resort, you can make a batch script that just compiles everything and links it all together; makefile.vms is an example of this (it's for VMS systems that have no make-like utility).

Here are comments about some specific configuration decisions you'll need to make:

Command line style
------------------

These programs can use a Unix-like command line style which supports redirection and piping, like this:
cjpeg inputfile >outputfile
cjpeg <inputfile >outputfile
source program | cjpeg >outputfile
The simpler "two file" command line style is just
cjpeg inputfile outputfile
You may prefer the two-file style, particularly if you don't have pipes.

You MUST use two-file style on any system that doesn't cope well with binary data fed through stdin/stdout; this is true for some MS-DOS compilers, for example. If you're not on a Unix system, it's safest to assume you need two-file style. (But if your compiler provides either the Posix-standard fdopen() library routine or a Microsoft-compatible setmode() routine, you can safely use the Unix command line style, by defining USE_FDOPEN or USE_SETMODE respectively.)

To use the two-file style, make jconfig.h say "#define TWO_FILE_COMMANDLINE".

Selecting a memory manager
--------------------------

The IJG code is capable of working on images that are too big to fit in main memory; data is swapped out to temporary files as necessary. However, the code to do this is rather system-dependent. We provide five different memory managers:

* jmemansi.c: This version uses the ANSI-standard library routine tmpfile(), which not all non-ANSI systems have. On some systems tmpfile() may put the temporary file in a non-optimal location; if you don't like what it does, use jmemname.c.

* jmemname.c: This version creates named temporary files. For anything except a Unix machine, you'll need to configure the select_file_name() routine appropriately; see the comments near the head of jmemname.c. If you use this version, define NEED_SIGNAL_CATCHER in jconfig.h to make sure the temp files
are removed if the program is aborted.

* jmemnobs.c (That stands for No Backing Store :-). This will compile on almost any system, but it assumes you have enough main memory or virtual memory to hold the biggest images you work with.

* jmemdos.c This should be used with most 16-bit MS-DOS compilers. See the system-specific notes about MS-DOS for more info. IMPORTANT: if you use this, define USE_MSDOS_MEMMGR in jconfig.h, and include the assembly file jmemdosa.asm in the programs. The supplied makefiles and jconfig files for 16-bit MS-DOS compilers already do both.

* jmemmac.c Custom version for Apple Macintosh; see the system-specific notes for Macintosh for more info.

To use a particular memory manager, change the SYSDEPMEM variable in your makefile to equal the corresponding object file name (for example, jmemansi.o or jmemansi.obj for jmemansi.c).

If you have plenty of (real or virtual) main memory, just use jmemnobs.c. "Plenty" means about ten bytes for every pixel in the largest images you plan to process, so a lot of systems don't meet this criterion. If yours doesn't, try jmemansi.c first. If that doesn't compile, you'll have to use jmemname.c; be sure to adjust select_file_name() for local conditions. You may also need to change unlink() to remove() in close_backing_store().

Except with jmemnobs.c or jmemmac.c, you need to adjust the DEFAULT_MAX_MEM setting to a reasonable value for your system (either by adding a #define for DEFAULT_MAX_MEM to jconfig.h, or by adding a -D switch to the Makefile). This value limits the amount of data space the program will attempt to allocate. Code and static data space isn't counted, so the actual memory needs for cjpeg or djpeg are typically 100 to 150Kb more than the max-memory setting. Larger max-memory settings reduce the amount of I/O needed to process a large image, but too large a value can result in "insufficient memory" failures. On most Unix machines (and other systems with virtual memory), just set DEFAULT_MAX_MEM to several million and forget it. At the other end of the spectrum, for MS-DOS machines you probably can't go much above 300K to 400K. (On MS-DOS the value refers to conventional memory only. Extended/expanded memory is handled separately by jmemdos.c.)

BUILDING THE SOFTWARE

Now you should be able to compile the software. Just say "make" (or whatever's necessary to start the compilation). Have a cup of coffee.
Here are some things that could go wrong:

If your compiler complains about undefined structures, you should be able to shut it up by putting 
#define INCOMPLETE_TYPES_BROKEN" in jconfig.h.

If you have trouble with missing system include files or inclusion of the wrong ones, read jinclude.h. This shouldn't happen if you used configure or ckconfig.c to set up jconfig.h.

There are a fair number of routines that do not use all of their parameters; some compilers will issue warnings about this, which you can ignore. There are also a few configuration checks that may give "unreachcable code" warnings. Any other warning deserves investigation.

If you don't have a getenv() library routine, define NO_GETENV.

Also see the system-specific hints, below.

TESTING THE SOFTWARE

As a quick test of functionality we've included a small sample image in several forms:
testorig.jpg Starting point for the djpeg tests.
testimg.ppm The output of djpeg testorig.jpg
testimg.bmp The output of djpeg -bmp -colors 256 testorig.jpg
testimg.jpg The output of cjpeg testimg.ppm
testprog.jpg Progressive-mode equivalent of testorig.jpg.
testimgp.jpg The output of cjpeg -progressive -optimize testimg.ppm
(The first- and second-generation .jpg files aren't identical since JPEG is lossy.) If you can generate duplicates of the testimg* files then you probably have working programs.

With most of the makefiles, "make test" will perform the necessary comparisons.

If you're using a makefile that doesn't provide the test option, run djpeg and cjpeg by hand and compare the output files to testimg* with whatever binary file comparison tool you have. The files should be bit-for-bit identical.

If the programs complain "MAX_ALLOC_CHUNK is wrong, please fix", then you need to reduce MAX_ALLOC_CHUNK to a value that fits in type size_t. Try adding 
#define MAX_ALLOC_CHUNK 65520L" to jconfig.h. A less likely configuration error is "ALIGN_TYPE is wrong, please fix": defining ALIGN_TYPE as long should take care of that one.
If the cjpeg test run fails with "Missing Huffman code table entry", it's a good bet that you needed to define RIGHT_SHIFT_IS_UNSIGNED. Go back to the configuration step and run ckconfig.c. (This is a good plan for any other test failure, too.)

If you are using Unix (one-file) command line style on a non-Unix system, it's a good idea to check that binary I/O through stdin/stdout actually works. You should get the same results from "djpeg <testorig.jpg >out.ppm" as from "djpeg -outfile out.ppm testorig.jpg". Note that the makefiles all use the latter style and therefore do not exercise stdin/stdout! If this check fails, try recompiling with USE_SETMODE or USE_FDOPEN defined. If it still doesn't work, better use two-file style.

If you chose a memory manager other than jmemnobs.c, you should test that temporary-file usage works. Try "djpeg -bmp -colors 256 -max 0 testorig.jpg" and make sure its output matches testimg.bmp. If you have any really large images handy, try compressing them with -optimize and/or decompressing with -colors 256 to make sure your DEFAULT_MAX_MEM setting is not too large.

NOTE: this is far from an exhaustive test of the JPEG software; some modules, such as 1-pass color quantization, are not exercised at all. It's just a quick test to give you some confidence that you haven't missed something major.

INSTALLING THE SOFTWARE
========================

Once you're done with the above steps, you can install the software by copying the executable files (cjpeg, djpeg, jpegtran, rdjpgcom, and wrjpgcom) to wherever you normally install programs. On Unix systems, you'll also want to put the man pages (cjpeg.1, djpeg.1, jpegtran.1, rdjpgcom.1, wrjpgcom.1) in the man-page directory. The pre-fab makefiles don't support this step since there's such a wide variety of installation procedures on different systems.

If you generated a Makefile with the "configure" script, you can just say make install to install the programs and their man pages into the standard places. (You'll probably need to be root to do this.) We recommend first saying make -n install to see where configure thought the files should go. You may need to edit the Makefile, particularly if your system's conventions for man page filenames don't match what configure expects.

If you want to install the IJG library itself, for use in compiling other programs besides ours, then you need to put the four include files jpeglib.h jerror.h jconfig.h jmorecfg.h
into your include-file directory, and put the library file libjpeg.a
(extension may vary depending on system) wherever library files go.
If you generated a Makefile with "configure", it will do what it thinks
is the right thing if you say
make install-lib

OPTIONAL STUFF
===============

Progress monitor:

If you like, you can #define PROGRESS_REPORT (in jconfig.h) to enable display
of percent-done progress reports. The routine provided in cdjpeg.c merely
prints percentages to stderr, but you can customize it to do something
fancier.

Utah RLE file format support:

We distribute the software with support for RLE image files (Utah Raster
Toolkit format) disabled, because the RLE support won't compile without the
Utah library. If you have URT version 3.1 or later, you can enable RLE
support as follows:
1. #define RLE_SUPPORTED in jconfig.h.
2. Add a -I option to CFLAGS in the Makefile for the directory
   containing the URT .h files (typically the "include"
   subdirectory of the URT distribution).
3. Add -L... -lrle to LDLIBS in the Makefile, where ... specifies
   the directory containing the URT "librle.a" file (typically the
   "lib" subdirectory of the URT distribution).

Support for 12-bit-deep pixel data:

The JPEG standard allows either 8-bit or 12-bit data precision. (For color,
this means 8 or 12 bits per channel, of course.) If you need to work with
deeper than 8-bit data, you can compile the IJG code for 12-bit operation.
To do so:
1. In jmorecfg.h, define BITS_IN_JSAMPLE as 12 rather than 8.
2. In jconfig.h, undefine BMP_SUPPORTED, RLE_SUPPORTED, and TARGA_SUPPORTED,
because the code for those formats doesn't handle 12-bit data and won't
even compile. (The PPM code does work, as explained below. The GIF
code works too; it scales 8-bit GIF data to and from 12-bit depth
automatically.)
3. Compile. Don't expect "make test" to pass, since the supplied test
   files are for 8-bit data.

Currently, 12-bit support does not work on 16-bit-int machines.
Note that a 12-bit version will not read 8-bit JPEG files, nor vice versa; so you'll want to keep around a regular 8-bit compilation as well. (Run-time selection of data depth, to allow a single copy that does both, is possible but would probably slow things down considerably; it's very low on our to-do list.)

The PPM reader (rdppm.c) can read 12-bit data from either text-format or binary-format PPM and PGM files. Binary-format PPM/PGM files which have a maxval greater than 255 are assumed to use 2 bytes per sample, MSB first (big-endian order). As of early 1995, 2-byte binary format is not officially supported by the PBMPLUS library, but it is expected that a future release of PBMPLUS will support it. Note that the PPM reader will read files of any maxval regardless of the BITS_IN_JSAMPLE setting; incoming data is automatically rescaled to either maxval=255 or maxval=4095 as appropriate for the cjpeg bit depth.

The PPM writer (wrppm.c) will normally write 2-byte binary PPM or PGM format, maxval 4095, when compiled with BITS_IN_JSAMPLE=12. Since this format is not yet widely supported, you can disable it by compiling wrppm.c with PPM_NORAWWORD defined; then the data is scaled down to 8 bits to make a standard 1-byte/sample PPM or PGM file. (Yes, this means still another copy of djjpeg to keep around. But hopefully you won't need it for very long. Poskanzer's supposed to get that new PBMPLUS release out Real Soon Now.)

Of course, if you are working with 12-bit data, you probably have it stored in some other, nonstandard format. In that case you'll probably want to write your own I/O modules to read and write your format.

Note that a 12-bit version of cjpeg always runs in "-optimize" mode, in order to generate valid Huffman tables. This is necessary because our default Huffman tables only cover 8-bit data.

Removing code:

If you need to make a smaller version of the JPEG software, some optional functions can be removed at compile time. See the xxx_SUPPORTED #defines in jconfig.h and jmorecfg.h. If at all possible, we recommend that you leave in decoder support for all valid JPEG files, to ensure that you can read anyone's output. Taking out support for image file formats that you don't use is the most painless way to make the programs smaller. Another possibility is to remove some of the DCT methods: in particular, the "IFAST" method may not be enough faster than the others to be worth keeping on your machine. (If you do remove ISLOW or IFAST, be sure to redefine JDCT_DEFAULT or JDCT_FASTEST to a supported method, by adding a #define in jconfig.h.)

OPTIMIZATION
============
Unless you own a Cray, you'll probably be interested in making the JPEG software go as fast as possible. This section covers some machine-dependent optimizations you may want to try. We suggest that before trying any of this, you first get the basic installation to pass the self-test step. Repeat the self-test after any optimization to make sure that you haven't broken anything.

The integer DCT routines perform a lot of multiplications. These multiplications must yield 32-bit results, but none of their input values are more than 16 bits wide. On many machines, notably the 680x0 and 80x86 CPUs, a 16x16=>32 bit multiply instruction is faster than a full 32x32=>32 bit multiply. Unfortunately there is no portable way to specify such a multiplication in C, but some compilers can generate one when you use the right combination of casts. See the MULTIPLYxxx macro definitions in jdct.h. If your compiler makes "int" be 32 bits and "short" be 16 bits, defining SHORTxSHORT_32 is fairly likely to work. When experimenting with alternate definitions, be sure to test not only whether the code still works (use the self-test), but also whether it is actually faster --- on some compilers, alternate definitions may compute the right answer, yet be slower than the default. Timing cjpeg on a large PGM (grayscale) input file is the best way to check this, as the DCT will be the largest fraction of the runtime in that mode. (Note: some of the distributed compiler-specific jconfig files already contain #define switches to select appropriate MULTIPLYxxx definitions.)

If your machine has sufficiently fast floating point hardware, you may find that the float DCT method is faster than the integer DCT methods, even after tweaking the integer multiply macros. In that case you may want to make the float DCT be the default method. (The only objection to this is that float DCT results may vary slightly across machines.) To do that, add "#define JDCT_DEFAULT JDCT_FLOAT" to jconfig.h. Even if you don't change the default, you should redefine JDCT_FASTEST, which is the method selected by djpeg's -fast switch. Don't forget to update the documentation files (usage.txt and/or cjpeg.1, djpeg.1) to agree with what you've done.

If access to "short" arrays is slow on your machine, it may be a win to define type JCOEF as int rather than short. This will cost a good deal of memory though, particularly in some multi-pass modes, so don't do it unless you have memory to burn and short is REALLY slow.

If your compiler can compile function calls in-line, make sure the INLINE macro in jmorecfg.h is defined as the keyword that marks a function inline-able. Some compilers have a switch that tells the compiler to inline any function it thinks is profitable (e.g., -finline-functions for gcc). Enabling such a switch is likely to make the compiled code bigger but faster.

In general, it's worth trying the maximum optimization level of your compiler,
and experimenting with any optional optimizations such as loop unrolling.
(Unfortunately, far too many compilers have optimizer bugs ... be prepared to
back off if the code fails self-test.) If you do any experimentation along
these lines, please report the optimal settings to jpeg-info@uc.ag so we
can mention them in future releases. Be sure to specify your machine
and compiler version.

HINTS FOR SPECIFIC SYSTEMS
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We welcome reports on changes needed for systems not mentioned here. Submit
'em to jpeg-info@uc.ag. Also, if configure or ckconfig.c is wrong about how
to configure the JPEG software for your system, please let us know.

Acorn RISC OS:

(Thanks to Simon Middleton for these hints on compiling with Desktop C.)
After renaming the files according to Acorn conventions, take a copy of
makefile.ansi, change all occurrences of 'libjpeg.a' to 'libjpeg.o' and
change these definitions as indicated:

CFLAGS= -throwback -IC: -Wn
LDLIBS=C:o.Stubs
SYSDEPMEM=jmemansi.o
LN=Link
AR=LibFile -c -o

Also add a new line '.c.o:; $(cc) $< $(cflags) -c -o $@'. Remove the
lines '$(RM) libjpeg.o' and '$(AR2) libjpeg.o' and the 'jconfig.h'
dependency section.

Copy jconfig.txt to jconfig.h. Edit jconfig.h to define TWO_FILE_COMMANDLINE
and CHAR_IS_UNSIGNED.

Run the makefile using !AMU not !Make. If you want to use the 'clean' and
'test' makefile entries then you will have to fiddle with the syntax a bit
and rename the test files.

Amiga:

SAS C 6.50 reportedly is too buggy to compile the IJG code properly.
A patch to update to 6.51 is available from SAS or AmiNet FTP sites.

The supplied config files are set up to use jmemname.c as the memory
manager, with temporary files being created on the device named by
Atari ST/STE/TT:

Copy the project files makcjpeg.st, makdjpeg.st, maktjpeg.st, and makljpeg.st to cjpeg.prj, djpeg.prj, jpegtran.prj, and libjpeg.prj respectively. The project files should work as-is with Pure C. For Turbo C, change library filenames "pc..." to "tc..." in each project file. Note that libjpeg.prj selects jmemansi.c as the recommended memory manager. You'll probably want to adjust the DEFAULT_MAX_MEM setting --- you want it to be a couple hundred K less than your normal free memory. Put "#define DEFAULT_MAX_MEM mnnn" into jconfig.h to do this.

To use the 68881/68882 coprocessor for the floating point DCT, add the compiler option "-8" to the project files and replace pcfltlib.lib with pc881lib.lib in cjpeg.prj and djpeg.prj. Or if you don't have a coprocessor, you may prefer to remove the float DCT code by undefining DCT_FLOAT_SUPPORTED in jmorecfg.h (since without a coprocessor, the float code will be too slow to be useful). In that case, you can delete pcfltlib.lib from the project files.

Note that you must make libjpeg.lib before making cjpeg.ttp, djpeg.ttp, or jpegtran.ttp. You'll have to perform the self-test by hand.

We haven't bothered to include project files for rdjpgcom and wrjgcom. Those source files should just be compiled by themselves; they don't depend on the JPEG library. You can use the default.prj project file of the Pure C distribution to make the programs.

There is a bug in some older versions of the Turbo C library which causes the space used by temporary files created with "tmpfile()" not to be freed after an abnormal program exit. If you check your disk afterwards, you will find cluster chains that are allocated but not used by a file. This should not happen in cjpeg/djpegrjpegtran, since we enable a signal catcher to explicitly close temp files before exiting. But if you use the JPEG library with your own code, be sure to supply a signal catcher, or else use a different system-dependent memory manager.

Cray:

Should you be so fortunate as to be running JPEG on a Cray YMP, there is a compiler bug in old versions of Cray's Standard C (prior to 3.1). If you still have an old compiler, you'll need to insert a line reading

"#pragma novector" just before the loop

for (i = 1; i <= (int) htbl->bits[l]; i++)
    huffsize[p++] = (char) l;
in fix_huff_tbl (in V5beta1, line 204 of jchuff.c and line 176 of jdhuff.c).
[This bug may or may not still occur with the current IJG code, but it's
probably a dead issue anyway...]

HP-UX:

If you have HP-UX 7.05 or later with the "software development" C compiler,
you should run the compiler in ANSI mode. If using the configure script,
say
    ./configure CC='cc -Aa'
(or -Ae if you prefer). If configuring by hand, use makefile.ansi and add
"-Aa" to the CFLAGS line in the makefile.

If you have a pre-7.05 system, or if you are using the non-ANSI C compiler
delivered with a minimum HP-UX system, then you must use makefile.unix
(and do NOT add -Aa); or just run configure without the CC option.

On HP 9000 series 800 machines, the HP C compiler is buggy in revisions prior
to A.08.07. If you get complaints about "not a typedef name", you'll have to
use makefile.unix, or run configure without the CC option.

Macintosh, generic comments:

The supplied user-interface files (cjpeg.c, djpeg.c, etc) are set up to
provide a Unix-style command line interface. You can use this interface on
the Mac by means of the ccommand() library routine provided by Metrowerks
CodeWarrior or Think C. This is only appropriate for testing the library,
however; to make a user-friendly equivalent of cjpeg/djpeg you'd really want
to develop a Mac-style user interface. There isn't a complete example
available at the moment, but there are some helpful starting points:
1. Sam Bushell's free "To JPEG" applet provides drag-and-drop conversion to
   JPEG under System 7 and later. This only illustrates how to use the
   compression half of the library, but it does a very nice job of that part.
2. Jim Brunner prepared a Mac-style user interface for both compression and
decompression. Unfortunately, it hasn't been updated since IJG v4, and
the library's API has changed considerably since then. Still it may be of
some help, particularly as a guide to compiling the IJG code under Think C.
Jim's code is available from the Info-Mac archives, at sumex-aim.stanford.edu
or mirrors thereof; see file /info-mac/dev/src/jpeg-convert-c.hqx.

jmemmac.c is the recommended memory manager back end for Macintosh. It uses
NewPtr/DisposePtr instead of malloc/free, and has a Mac-specific
implementation of jpeg_mem_available(). It also creates temporary files that
follow Mac conventions. (That part of the code relies on System-7-or-later OS
functions. See the comments in jmemmac.c if you need to run it on System 6.)
NOTE that USE_MAC_MEMMGR must be defined in jconfig.h to use jmemmac.c.

You can also use jmemnobs.c, if you don't care about handling images larger than available memory. If you use any memory manager back end other than jmemmac.c, we recommend replacing "malloc" and "free" by "NewPtr" and "DisposePtr", because Mac C libraries often have peculiar implementations of malloc/free. (For instance, free() may not return the freed space to the Mac Memory Manager. This is undesirable for the IJG code because jmemmgr.c already clumps space requests.)

Macintosh, Metrowerks CodeWarrior:

The Unix-command-line-style interface can be used by defining USE_CCOMMAND. You'll also need to define TWO_FILE_COMMANDLINE to avoid stdin/stdout. This means that when using the cjpeg/djpeg programs, you'll have to type the input and output file names in the "Arguments" text-edit box, rather than using the file radio buttons. (Perhaps USE_FDOOPEN or USE_SETMODE would eliminate the problem, but I haven't heard from anyone who's tried it.)

On 680x0 Macs, Metrowerks defines type "double" as a 10-byte IEEE extended float. jmemmgr.c won't like this: it wants sizeof(ALIGN_TYPE) to be a power of 2. Add "#define ALIGN_TYPE long" to jconfig.h to eliminate the complaint.

The supplied configuration file jconfig.mac can be used for your jconfig.h; it includes all the recommended symbol definitions. If you have AppleScript installed, you can run the supplied script makeproj.mac to create CodeWarrior project files for the library and the testbed applications, then build the library and applications. (Thanks to Dan Sears and Don Agro for this nifty hack, which saves us from trying to maintain CodeWarrior project files as part of the IJG distribution...)

Macintosh, Think C:

The documentation in Jim Brunner's "JPEG Convert" source code (see above) includes detailed build instructions for Think C; it's probably somewhat out of date for the current release, but may be helpful.

If you want to build the minimal command line version, proceed as follows. You'll have to prepare project files for the programs; we don't include any in the distribution since they are not text files. Use the file lists in any of the supplied makefiles as a guide. Also add the ANSI and Unix C libraries in a separate segment. You may need to divide the JPEG files into more than one segment; we recommend dividing compression and decompression modules. Define USE_CCOMMAND in jconfig.h so that the ccommand() routine is called. You must also define TWO_FILE_COMMANDLINE because stdin/stdout don't handle binary data correctly.
On 680x0 Macs, Think C defines type "double" as a 12-byte IEEE extended float. jmemmgr.c won't like this: it wants sizeof(ALIGN_TYPE) to be a power of 2. Add "#define ALIGN_TYPE long" to jconfig.h to eliminate the complaint.

jconfig.mac should work as a jconfig.h configuration file for Think C, but the makeproj.mac AppleScript script is specific to CodeWarrior. Sorry.

MIPS R3000:

MIPS's cc version 1.31 has a rather nasty optimization bug. Don't use -O if you have that compiler version. (Use "cc -V" to check the version.) Note that the R3000 chip is found in workstations from DEC and others.

MS-DOS, generic comments for 16-bit compilers:

The IJG code is designed to work well in 80x86 "small" or "medium" memory models (i.e., data pointers are 16 bits unless explicitly declared "far"; code pointers can be either size). You may be able to use small model to compile cjpeg or djpeg by itself, but you will probably have to use medium model for any larger application. This won't make much difference in performance. You *will* take a noticeable performance hit if you use a large-data memory model, and you should avoid "huge" model if at all possible. Be sure that NEED_FAR_POINTERS is defined in jconfig.h if you use a small-data memory model; be sure it is NOT defined if you use a large-data model. (The supplied makefiles and jconfig files for Borland and Microsoft C compile in medium model and define NEED_FAR_POINTERS.)

The DOS-specific memory manager, jmemdos.c, should be used if possible. It needs some assembly-code routines which are in jmemdosa.asm; make sure your makefile assembles that file and includes it in the library. If you don't have a suitable assembler, you can get pre-assembled object files for jmemdos by FTP from ftp.uu.net:/graphics/jpeg/jdosaobj.zip. (DOS-oriented distributions of the IJG source code often include these object files.)

When using jmemdos.c, jconfig.h must define USE_MSDOS_MEMMGR and must set MAX_ALLOC_CHUNK to less than 64K (65520L is a typical value). If your C library's far-heap malloc() can't allocate blocks that large, reduce MAX_ALLOC_CHUNK to whatever it can handle.

If you can't use jmemdos.c for some reason --- for example, because you don't have an assembler to assemble jmemdosa.asm --- you'll have to fall back to jmemansi.c or jmemname.c. You'll probably still need to set MAX_ALLOC_CHUNK in jconfig.h, because most DOS C libraries won't malloc() more than 64K at a time. IMPORTANT: if you use jmemansi.c or jmemname.c, you will have to compile in a large-data memory model in order to get the
right stdio library. Too bad.

wrjpgcom needs to be compiled in large model, because it malloc()s a 64KB work area to hold the comment text. If your C library’s malloc can’t handle that, reduce MAX_COM_LENGTH as necessary in wrjpgcom.c.

Most MS-DOS compilers treat stdin/stdout as text files, so you must use two-file command line style. But if your compiler has either fdopen() or setmode(), you can use one-file style if you like. To do this, define USE_SETMODE or USE_FDOPEN so that stdin/stdout will be set to binary mode. (USE_SETMODE seems to work with more DOS compilers than USE_FDOPEN.) You should test that I/O through stdin/stdout produces the same results as I/O to explicitly named files... the "make test" procedures in the supplied makefiles do NOT use stdin/stdout.

MS-DOS, generic comments for 32-bit compilers:

None of the above comments about memory models apply if you are using a 32-bit flat-memory-space environment, such as DJGPP or Watcom C. (And you should use one if you have it, as performance will be much better than 8086-compatible code!) For flat-memory-space compilers, do NOT define NEED_FAR_POINTERS, and do NOT use jmemdos.c. Use jmemnobs.c if the environment supplies adequate virtual memory, otherwise use jmemansi.c or jmemname.c.

You'll still need to be careful about binary I/O through stdin/stdout. See the last paragraph of the previous section.

MS-DOS, Borland C:

Be sure to convert all the source files to DOS text format (CR/LF newlines). Although Borland C will often work OK with unmodified Unix (LF newlines) source files, sometimes it will give bogus compile errors. "Illegal character '#" is the most common such error. (This is true with Borland C 3.1, but perhaps is fixed in newer releases.)

If you want one-file command line style, just undefine TWO_FILE_COMMANDLINE. jconfig.bcc already includes #define USE_SETMODE to make this work. (fdopen does not work correctly.)

MS-DOS, Microsoft C:

makefile.mc6 works with Microsoft C, DOS Visual C++, etc. It should only be used if you want to build a 16-bit (small or medium memory model) program.
If you want one-file command line style, just undefine TWO_FILE_COMMANDLINE. jconfig.mc6 already includes #define USE_SETMODE to make this work. (fdopen does not work correctly.)

Note that this makefile assumes that the working copy of itself is called "makefile". If you want to call it something else, say "makefile.mak", be sure to adjust the dependency line that reads "$(RFILE) : makefile". Otherwise the make will fail because it doesn't know how to create "makefile". Worse, some releases of Microsoft's make utilities give an incorrect error message in this situation.

Old versions of MS C fail with an "out of macro expansion space" error because they can't cope with the macro TRACEMS8 (defined in jerror.h). If this happens to you, the easiest solution is to change TRACEMS8 to expand to nothing. You'll lose the ability to dump out JPEG coefficient tables with djpeg -debug -debug, but at least you can compile.

Original MS C 6.0 is very buggy; it compiles incorrect code unless you turn off optimization entirely (remove -O from CFLAGS). 6.00A is better, but it still generates bad code if you enable loop optimizations (-Ol or -Ox).

MS C 8.0 crashes when compiling jquant1.c with optimization switch /Oo ... which is on by default. To work around this bug, compile that one file with /Oo-.

Microsoft Windows (all versions), generic comments:

Some Windows system include files define typedef boolean as "unsigned char". The IJG code also defines typedef boolean, but we make it "int" by default. This doesn't affect the IJG programs because we don't import those Windows include files. But if you use the JPEG library in your own program, and some of your program's files import one definition of boolean while some import the other, you can get all sorts of mysterious problems. A good preventive step is to make the IJG library use "unsigned char" for boolean. To do that, add something like this to your jconfig.h file:
/* Define "boolean" as unsigned char, not int, per Windows custom */
#endif
#define HAVE_BOOLEAN /* prevent jmorecfg.h from redefining it */
(This is already in jconfig.vc, by the way.)

windef.h contains the declarations
#define far
#define FAR far

Since jmorecfg.h tries to define FAR as empty, you may get a compiler warning if you include both jpeglib.h and windef.h (which windows.h
includes). To suppress the warning, you can put "#ifndef FAR"/
#define FAR" in jmorecfg.h.
(Something like this is already in jmorecfg.h, by the way.)

When using the library in a Windows application, you will almost certainly
want to modify or replace the error handler module jerror.c, since our
default error handler does a couple of inappropriate things:
1. it tries to write error and warning messages on stderr;
2. in event of a fatal error, it exits by calling exit().

A simple stopgap solution for problem 1 is to replace the line
fprintf(stderr, "%s\n", buffer);
(in output_message in jerror.c) with
MessageBox(GetActiveWindow(),buffer,"JPEG Error",MB_OK|MB_ICONERROR);
It's highly recommended that you at least do that much, since otherwise
error messages will disappear into nowhere. (Beginning with IJG v6b, this
code is already present in jerror.c; just define USE_WINDOWS_MESSAGEBOX in
jconfig.h to enable it.)

The proper solution for problem 2 is to return control to your calling
application after a library error. This can be done with the setjmp/longjmp
technique discussed in libjpeg.txt and illustrated in example.c. (NOTE:
some older Windows C compilers provide versions of setjmp/longjmp that
don't actually work under Windows. You may need to use the Windows system
functions Catch and Throw instead.)

The recommended memory manager under Windows is jmemnobs.c; in other words,
let Windows do any virtual memory management needed. You should NOT use
jmemdos.c nor jmemdosa.asm under Windows.

For Windows 3.1, we recommend compiling in medium or large memory model;
for newer Windows versions, use a 32-bit flat memory model. (See the MS-DOS
sections above for more info about memory models.) In the 16-bit memory
models only, you'll need to put
#define MAX_ALLOC_CHUNK 65520L/* Maximum request to malloc() */
into jconfig.h to limit allocation chunks to 64Kb. (Without that, you'd
have to use huge memory model, which slows things down unnecessarily.)
jmemnobs.c works without modification in large or flat memory models, but to
use medium model, you need to modify its jpeg_get_large and jpeg_free_large
routines to allocate far memory. In any case, you might like to replace
its calls to malloc and free with direct calls on Windows memory allocation
functions.

You may also want to modify jdatasrc.c and jdatadst.c to use Windows file
operations rather than fread/fwrite. This is only necessary if your C
compiler doesn't provide a competent implementation of C stdio functions.

You might want to tweak the RGB_xxx macros in jmorecfg.h so that the library
will accept or deliver color pixels in BGR sample order, not RGB; BGR order is usually more convenient under Windows. Note that this change will break the sample applications cjpeg/djpeg, but the library itself works fine.

Many people want to convert the IJG library into a DLL. This is reasonably straightforward, but watch out for the following:

1. Don't try to compile as a DLL in small or medium memory model; use large model, or even better, 32-bit flat model. Many places in the IJG code assume the address of a local variable is an ordinary (not FAR) pointer; that isn't true in a medium-model DLL.

2. Microsoft C cannot pass file pointers between applications and DLLs. (See Microsoft Knowledge Base, PSS ID Number Q50336.) So jdatasrc.c and jdatadst.c don't work if you open a file in your application and then pass the pointer to the DLL. One workaround is to make jdatasrc.c/jdatadst.c part of your main application rather than part of the DLL.

3. You'll probably need to modify the macros GLOBAL() and EXTERN() to attach suitable linkage keywords to the exported routine names. Similarly, you'll want to modify METHODDEF() and JMETHOD() to ensure function pointers are declared in a way that lets application routines be called back through the function pointers. These macros are in jmorecfg.h. Typical definitions for a 16-bit DLL are:

```c
#define GLOBAL(type) type _far _pascal _loadds _export
#define EXTERN(type) extern type _far _pascal _loadds
#define METHODDEF(type) static type _far _pascal
#define JMETHOD(type,methodname,arglist)  
\type (_far _pascal *methodname) arglist
```

For a 32-bit DLL you may want something like

```c
#define GLOBAL(type) _declspec(dllexport) type
#define EXTERN(type) _declspec(dllexport) type
```

Although not all the GLOBAL routines are actually intended to be called by the application, the performance cost of making them all DLL entry points is negligible.

The unmodified IJG library presents a very C-specific application interface, so the resulting DLL is only usable from C or C++ applications. There has been some talk of writing wrapper code that would present a simpler interface usable from other languages, such as Visual Basic. This is on our to-do list but hasn't been very high priority --- any volunteers out there?

Microsoft Windows, Borland C:

The provided jconfig.bcc should work OK in a 32-bit Windows environment, but you'll need to tweak it in a 16-bit environment (you'd need to define
NEED_FAR_POINTERS and MAX_ALLOC_CHUNK). Beware that makefile.bcc will need alteration if you want to use it for Windows --- in particular, you should use jmemnobs.c not jmemdos.c under Windows.

Borland C++ 4.5 fails with an internal compiler error when trying to compile jdmerge.c in 32-bit mode. If enough people complain, perhaps Borland will fix it. In the meantime, the simplest known workaround is to add a redundant definition of the variable range_limit in h2v1_merged_upsample(), at the head of the block that handles odd image width (about line 268 in v6 jdmerge.c):

/* If image width is odd, do the last output column separately */
if (cinfo->output_width & 1) {
    register JSAMPLE * range_limit = cinfo->sample_range_limit; /* ADD THIS */
    cb = GETJSAMPLE(*inptr1);
}

Pretty bizarre, especially since the very similar routine h2v2_merged_upsample doesn't trigger the bug.

Recent reports suggest that this bug does not occur with "bcc32a" (the Pentium-optimized version of the compiler).

Another report from a user of Borland C 4.5 was that incorrect code (leading to a color shift in processed images) was produced if any of the following optimization switch combinations were used:
-Ot -Og
-Ot -Op
-Ot -Om

So try backing off on optimization if you see such a problem. (Are there several different releases all numbered "4.5"??)

Microsoft Windows, Microsoft Visual C++:

jconfig.vc should work OK with any Microsoft compiler for a 32-bit memory model. makefile.vc is intended for command-line use. (If you are using the Developer Studio environment, you may prefer the DevStudio project files; see below.)

IJG JPEG 7 adds extern "C" to jpeglib.h. This avoids the need to put extern "C" [ ... ] around #include "jpeglib.h" in your C++ application. You can also force VC++ to treat the library as C++ code by renaming all the *.c files to *.cpp (and adjusting the makefile to match).
In this case you also need to define the symbol DONT_USE_EXTERN_C in the configuration to prevent jpeglib.h from using extern "C".

Microsoft Windows, Microsoft Visual C++ 6 Developer Studio:

We include makefiles that should work as project files in DevStudio 6.0 or later. There is a library makefile that builds the IJG library as a static Win32 library, and application makefiles that build the sample applications...
as Win32 console applications. (Even if you only want the library, we recommend building the applications so that you can run the self-test.)

To use:
1. Open the command prompt, change to the main directory and execute the command line
   NMAKE /f makefile.vc setup-vc6
   This will move jconfig.vc to jconfig.h and makefiles to project files.
   (Note that the renaming is critical!)
2. Open the workspace file jpeg.dsw, build the library project.
   (If you are using DevStudio more recent than 6.0, you'll probably get a message saying that the project files are being updated.)
3. Open the workspace file apps.dsw, build the application projects.
4. To perform the self-test, execute the command line
   NMAKE /f makefile.vc test-build
5. Move the application .exe files from `app`\Release to an appropriate location on your path.

Microsoft Windows, Microsoft Visual C++ 2010 Developer Studio (v10):

We include makefiles that should work as project files in Visual Studio 2010 or later. There is a library makefile that builds the IJG library as a static Win32 library, and application makefiles that build the sample applications as Win32 console applications. (Even if you only want the library, we recommend building the applications so that you can run the self-test.)

To use:
1. Open the command prompt, change to the main directory and execute the command line
   NMAKE /f makefile.vc setup-v10
   This will move jconfig.vc to jconfig.h and makefiles to project files.
   (Note that the renaming is critical!)
2. Open the solution file jpeg.sln, build the library project.
   (If you are using Visual Studio more recent than 2010 (v10), you'll probably get a message saying that the project files are being updated.)
3. Open the solution file apps.sln, build the application projects.
4. To perform the self-test, execute the command line
   NMAKE /f makefile.vc test-build
5. Move the application .exe files from `app`\Release to an appropriate location on your path.

Note:
There seems to be an optimization bug in the compiler which causes the self-test to fail with the color quantization option.
We have disabled optimization for the file jquant2.c in the library project file which causes the self-test to pass properly.
OS/2, Borland C++:

Watch out for optimization bugs in older Borland compilers; you may need to back off the optimization switch settings. See the comments in makefile.bcc.

SGI:

On some SGI systems, you may need to set "AR2= ar -ts" in the Makefile. If you are using configure, you can do this by saying

`./configure RANLIB='ar -ts`

This change is not needed on all SGIs. Use it only if the make fails at the stage of linking the completed programs.

On the MIPS R4000 architecture (Indy, etc.), the compiler option "-mips2" reportedly speeds up the float DCT method substantially, enough to make it faster than the default int method (but still slower than the fast int method). If you use -mips2, you may want to alter the default DCT method to be float. To do this, put "#define JDCT_DEFAULT JDCT_FLOAT" in jconfig.h.

VMS:

On an Alpha/VMS system with MMS, be sure to use the "/Marco=Alpha=1" qualifier with MMS when building the JPEG package.

VAX/VMS v5.5-1 may have problems with the test step of the build procedure reporting differences when it compares the original and test images. If the error points to the last block of the files, it is most likely bogus and may be safely ignored. It seems to be because the files are Stream_LF and Backup/Compare has difficulty with the (presumably) null padded files. This problem was not observed on VAX/VMS v6.1 or AXP/VMS v6.1.

Found in path(s):

* /opt/cola/permits/161014486_1646171445.16/0/jpeg-8c-zip/jpeg-8c/install.txt

No license file was found, but licenses were detected in source scan.

/*
 * jdcoefct.c
 *
 * Copyright (C) 1994-1997, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 * This file contains the coefficient buffer controller for decompression.
* This controller is the top level of the JPEG decompressor proper.
* The coefficient buffer lies between entropy decoding and inverse-DCT steps.
* In buffered-image mode, this controller is the interface between
  * input-oriented processing and output-oriented processing.
  * Also, the input side (only) is used when reading a file for transcoding.
* /

Found in path(s):
* /opt/cola/permits/161014486_1646171445.16/0/jpeg-8c-zip/jpeg-8c/jdcoefct.c
No license file was found, but licenses were detected in source scan.

/
* jcdctmgr.c
*
* Copyright (C) 1994-1996, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
* This file contains the forward-DCT management logic.
* This code selects a particular DCT implementation to be used,
  * and it performs related housekeeping chores including coefficient
  * quantization.
* /

Found in path(s):
* /opt/cola/permits/161014486_1646171445.16/0/jpeg-8c-zip/jpeg-8c/jcdctmgr.c
No license file was found, but licenses were detected in source scan.

/
* jmemansi.c
*
* Copyright (C) 1992-1996, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
* This file provides a simple generic implementation of the system-
  * dependent portion of the JPEG memory manager. This implementation
  * assumes that you have the ANSI-standard library routine tmpfile().
  * Also, the problem of determining the amount of memory available
  * is shoved onto the user.
* /

Found in path(s):
* /opt/cola/permits/161014486_1646171445.16/0/jpeg-8c-zip/jpeg-8c/jmemansi.c
No license file was found, but licenses were detected in source scan.

/*
* cdjpeg.c

* Copyright (C) 1991-1997, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.

* This file contains common support routines used by the IJG application
* programs (cjpeg, djpeg, jpegtran).
*/

Found in path(s):
* /opt/cola/permits/161014486_1646171445.16/0/jpeg-8c-zip/jpeg-8c/cdjpeg.c
No license file was found, but licenses were detected in source scan.

/ *
* jchuff.c
*

* Copyright (C) 1991-1997, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.

* This file contains Huffman entropy encoding routines.
* Both sequential and progressive modes are supported in this single module.

* Much of the complexity here has to do with supporting output suspension.  
* If the data destination module demands suspension, we want to be able to  
* back up to the start of the current MCU. To do this, we copy state  
* variables into local working storage, and update them back to the  
* permanent JPEG objects only upon successful completion of an MCU.

* We do not support output suspension for the progressive JPEG mode, since  
* the library currently does not allow multiple-scan files to be written  
* with output suspension.
*/

Found in path(s):
* /opt/cola/permits/161014486_1646171445.16/0/jpeg-8c-zip/jpeg-8c/jchuff.c
No license file was found, but licenses were detected in source scan.

/ *
* jerror.c
*

* Copyright (C) 1991-1998, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.

* This file contains simple error-reporting and trace-message routines.
* These are suitable for Unix-like systems and others where writing to
* stderr is the right thing to do. Many applications will want to replace
* some or all of these routines.
*
* If you define USE_WINDOWS_MESSAGEBOX in jconfig.h or in the makefile,
* you get a Windows-specific hack to display error messages in a dialog box.
* It ain't much, but it beats dropping error messages into the bit bucket,
* which is what happens to output to stderr under most Windows C compilers.
*
* These routines are used by both the compression and decompression code.
* /

Found in path(s):
* /opt/cola/permits/161014486_1646171445.16/0/jpeg-8c-zip/jpeg-8c/jerror.c
No license file was found, but licenses were detected in source scan.

USING THE IJG JPEG LIBRARY

Copyright (C) 1994-2010, Thomas G. Lane, Guido Vollbeding.
This file is part of the Independent JPEG Group's software.
For conditions of distribution and use, see the accompanying README file.

This file describes how to use the IJG JPEG library within an application
program. Read it if you want to write a program that uses the library.

The file example.c provides heavily commented skeleton code for calling the
JPEG library. Also see jpeglib.h (the include file to be used by application
programs) for full details about data structures and function parameter lists.
The library source code, of course, is the ultimate reference.

Note that there have been *major* changes from the application interface
presented by IJG version 4 and earlier versions. The old design had several
inherent limitations, and it had accumulated a lot of cruft as we added
features while trying to minimize application-interface changes. We have
sacrificed backward compatibility in the version 5 rewrite, but we think the
improvements justify this.

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You should read at least the overview and basic usage sections before trying
to program with the library. The sections on advanced features can be read
if and when you need them.

OVERVIEW
========

Functions provided by the library
---------------------------------

The IJG JPEG library provides C code to read and write JPEG-compressed image
files. The surrounding application program receives or supplies image data a
scanline at a time, using a straightforward uncompressed image format. All
details of color conversion and other preprocessing/postprocessing can be
handled by the library.

The library includes a substantial amount of code that is not covered by the
JPEG standard but is necessary for typical applications of JPEG. These
functions preprocess the image before JPEG compression or postprocess it after
decompression. They include colorspace conversion, downsampling/upsampling,
and color quantization. The application indirectly selects use of this code
by specifying the format in which it wishes to supply or receive image data.
For example, if colormapped output is requested, then the decompression
library automatically invokes color quantization.
A wide range of quality vs. speed tradeoffs are possible in JPEG processing, and even more so in decompression postprocessing. The decompression library provides multiple implementations that cover most of the useful tradeoffs, ranging from very-high-quality down to fast-preview operation. On the compression side we have generally not provided low-quality choices, since compression is normally less time-critical. It should be understood that the low-quality modes may not meet the JPEG standard's accuracy requirements; nonetheless, they are useful for viewers.

A word about functions *not* provided by the library. We handle a subset of the ISO JPEG standard; most baseline, extended-sequential, and progressive JPEG processes are supported. (Our subset includes all features now in common use.) Unsupported ISO options include:

* Hierarchical storage
* Lossless JPEG
* DNL marker
* Nonintegral subsampling ratios

We support both 8- and 12-bit data precision, but this is a compile-time choice rather than a run-time choice; hence it is difficult to use both precisions in a single application.

By itself, the library handles only interchange JPEG datastreams --- in particular the widely used JFIF file format. The library can be used by surrounding code to process interchange or abbreviated JPEG datastreams that are embedded in more complex file formats. (For example, this library is used by the free LIBTIFF library to support JPEG compression in TIFF.)

Outline of typical usage
------------------------

The rough outline of a JPEG compression operation is:

Allocate and initialize a JPEG compression object
Specify the destination for the compressed data (eg, a file)
Set parameters for compression, including image size & colorspace
jpeg_start_compress(...);
while (scan lines remain to be written)
jpeg_write_scanlines(...);
jpeg_finish_compress(...);
Release the JPEG compression object

A JPEG compression object holds parameters and working state for the JPEG library. We make creation/destruction of the object separate from starting or finishing compression of an image; the same object can be re-used for a series of image compression operations. This makes it easy to re-use the same parameter settings for a sequence of images. Re-use of a JPEG object also has important implications for processing abbreviated JPEG datastreams,
The image data to be compressed is supplied to jpeg_write_scanlines() from in-memory buffers. If the application is doing file-to-file compression, reading image data from the source file is the application's responsibility. The library emits compressed data by calling a "data destination manager", which typically will write the data into a file; but the application can provide its own destination manager to do something else.

Similarly, the rough outline of a JPEG decompression operation is:

Allocate and initialize a JPEG decompression object
Specify the source of the compressed data (eg, a file)
Call jpeg_read_header() to obtain image info
Set parameters for decompression
jpeg_start_decompress(...);
while (scan lines remain to be read)
  jpeg_read_scanlines(...);
  jpeg_finish_decompress(...);
Release the JPEG decompression object

This is comparable to the compression outline except that reading the datastream header is a separate step. This is helpful because information about the image's size, colorspace, etc is available when the application selects decompression parameters. For example, the application can choose an output scaling ratio that will fit the image into the available screen size.

The decompression library obtains compressed data by calling a data source manager, which typically will read the data from a file; but other behaviors can be obtained with a custom source manager. Decompressed data is delivered into in-memory buffers passed to jpeg_read_scanlines().

It is possible to abort an incomplete compression or decompression operation by calling jpeg_abort(); or, if you do not need to retain the JPEG object, simply release it by calling jpeg_destroy().

JPEG compression and decompression objects are two separate struct types. However, they share some common fields, and certain routines such as jpeg_destroy() can work on either type of object.

The JPEG library has no static variables: all state is in the compression or decompression object. Therefore it is possible to process multiple compression and decompression operations concurrently, using multiple JPEG objects.

Both compression and decompression can be done in an incremental memory-to-memory fashion, if suitable source/destination managers are used. See the section on "I/O suspension" for more details.
BASIC LIBRARY USAGE
===================

Data formats
----------

Before diving into procedural details, it is helpful to understand the image data format that the JPEG library expects or returns.

The standard input image format is a rectangular array of pixels, with each pixel having the same number of "component" or "sample" values (color channels). You must specify how many components there are and the colorspace interpretation of the components. Most applications will use RGB data (three components per pixel) or grayscale data (one component per pixel). PLEASE NOTE THAT RGB DATA IS THREE SAMPLES PER PIXEL, GRAYSCALE ONLY ONE. A remarkable number of people manage to miss this, only to find that their programs don't work with grayscale JPEG files.

There is no provision for colormapped input. JPEG files are always full-color or full grayscale (or sometimes another colorspace such as CMYK). You can feed in a colormapped image by expanding it to full-color format. However JPEG often doesn't work very well with source data that has been colormapped, because of dithering noise. This is discussed in more detail in the JPEG FAQ and the other references mentioned in the README file.

Pixels are stored by scanlines, with each scanline running from left to right. The component values for each pixel are adjacent in the row; for example, R,G,B,R,G,B,R,G,B,... for 24-bit RGB color. Each scanline is an array of data type JSAMPLE --- which is typically "unsigned char", unless you've changed jmorecfg.h. (You can also change the RGB pixel layout, say to B,G,R order, by modifying jmorecfg.h. But see the restrictions listed in that file before doing so.)

A 2-D array of pixels is formed by making a list of pointers to the starts of scanlines; so the scanlines need not be physically adjacent in memory. Even if you process just one scanline at a time, you must make a one-element pointer array to conform to this structure. Pointers to JSAMPLE rows are of type JSAMPROW, and the pointer to the pointer array is of type JSAMPARRAY.

The library accepts or supplies one or more complete scanlines per call. It is not possible to process part of a row at a time. Scanlines are always processed top-to-bottom. You can process an entire image in one call if you have it all in memory, but usually it's simplest to process one scanline at a time.

For best results, source data values should have the precision specified by
BITS_IN_JSAMPLE (normally 8 bits). For instance, if you choose to compress data that's only 6 bits/channel, you should left-justify each value in a byte before passing it to the compressor. If you need to compress data that has more than 8 bits/channel, compile with BITS_IN_JSAMPLE = 12. (See "Library compile-time options", later.)

The data format returned by the decompressor is the same in all details, except that colormapped output is supported. (Again, a JPEG file is never colormapped. But you can ask the decompressor to perform on-the-fly color quantization to deliver colormapped output.) If you request colormapped output then the returned data array contains a single JSAMPLE per pixel; its value is an index into a color map. The color map is represented as a 2-D JSAMPARRAY in which each row holds the values of one color component, that is, colormap[i][j] is the value of the i'th color component for pixel value (map index) j. Note that since the colormap indexes are stored in JSAMPLEs, the maximum number of colors is limited by the size of JSAMPLE (ie, at most 256 colors for an 8-bit JPEG library).

Compression details
-------------------

Here we revisit the JPEG compression outline given in the overview.

1. Allocate and initialize a JPEG compression object.

A JPEG compression object is a "struct jpeg_compress_struct". (It also has a bunch of subsidiary structures which are allocated via malloc(), but the application doesn't control those directly.) This struct can be just a local variable in the calling routine, if a single routine is going to execute the whole JPEG compression sequence. Otherwise it can be static or allocated from malloc().

You will also need a structure representing a JPEG error handler. The part of this that the library cares about is a "struct jpeg_error_mgr". If you are providing your own error handler, you'll typically want to embed the jpeg_error_mgr struct in a larger structure; this is discussed later under "Error handling". For now we'll assume you are just using the default error handler. The default error handler will print JPEG error/warning messages on stderr, and it will call exit() if a fatal error occurs.

You must initialize the error handler structure, store a pointer to it into the JPEG object's "err" field, and then call jpeg_create_compress() to initialize the rest of the JPEG object.

Typical code for this step, if you are using the default error handler, is
struct jpeg_compress_struct cinfo;
struct jpeg_error_mgr jerr;
...
cinfo.err = jpeg_std_error(&jerr);
jpeg_create_compress(&cinfo);

jpeg_create_compress allocates a small amount of memory, so it could fail if you are out of memory. In that case it will exit via the error handler; that's why the error handler must be initialized first.

2. Specify the destination for the compressed data (eg, a file).

As previously mentioned, the JPEG library delivers compressed data to a "data destination" module. The library includes one data destination module which knows how to write to a stdio stream. You can use your own destination module if you want to do something else, as discussed later.

If you use the standard destination module, you must open the target stdio stream beforehand. Typical code for this step looks like:

FILE * outfile;
...
if ((outfile = fopen(filename, "wb")) == NULL) {
    fprintf(stderr, "can't open %s\n", filename);
    exit(1);
}
jpeg_stdio_dest(&cinfo, outfile);

where the last line invokes the standard destination module.

WARNING: it is critical that the binary compressed data be delivered to the output file unchanged. On non-Unix systems the stdio library may perform newline translation or otherwise corrupt binary data. To suppress this behavior, you may need to use a "b" option to fopen (as shown above), or use setmode() or another routine to put the stdio stream in binary mode. See cjpeg.c and djpeg.c for code that has been found to work on many systems.

You can select the data destination after setting other parameters (step 3), if that's more convenient. You may not change the destination between calling jpeg_start_compress() and jpeg_finish_compress().

3. Set parameters for compression, including image size & colorspace.

You must supply information about the source image by setting the following fields in the JPEG object (cinfo structure):


The image dimensions are, hopefully, obvious. JPEG supports image dimensions of 1 to 64K pixels in either direction. The input color space is typically RGB or grayscale, and input_components is 3 or 1 accordingly. (See "Special color spaces", later, for more info.) The in_color_space field must be assigned one of the J_COLOR_SPACE enum constants, typically JCS_RGB or JCS_GRAYSCALE.

JPEG has a large number of compression parameters that determine how the image is encoded. Most applications don't need or want to know about all these parameters. You can set all the parameters to reasonable defaults by calling jpeg_set_defaults(); then, if there are particular values you want to change, you can do so after that. The "Compression parameter selection" section tells about all the parameters.

You must set in_color_space correctly before calling jpeg_set_defaults(), because the defaults depend on the source image colorspace. However the other three source image parameters need not be valid until you call jpeg_start_compress(). There's no harm in calling jpeg_set_defaults() more than once, if that happens to be convenient.

Typical code for a 24-bit RGB source image is

```c
    cinfo.image_width = Width; /* image width and height, in pixels */
    cinfo.image_height = Height;
    cinfo.input_components = 3; /* # of color components per pixel */
    cinfo.in_color_space = JCS_RGB; /* colorspace of input image */

    jpeg_set_defaults(&cinfo);
    /* Make optional parameter settings here */
```

4. jpeg_start_compress(...);

After you have established the data destination and set all the necessary source image info and other parameters, call jpeg_start_compress() to begin a compression cycle. This will initialize internal state, allocate working storage, and emit the first few bytes of the JPEG datastream header.

Typical code:

```c
    jpeg_start_compress(&cinfo, TRUE);
```

The "TRUE" parameter ensures that a complete JPEG interchange datastream
will be written. This is appropriate in most cases. If you think you might want to use an abbreviated datastream, read the section on abbreviated datastreams, below.

Once you have called jpeg_start_compress(), you may not alter any JPEG parameters or other fields of the JPEG object until you have completed the compression cycle.

5. while (scan lines remain to be written)
   jpeg_write_scanlines(...);

Now write all the required image data by calling jpeg_write_scanlines() one or more times. You can pass one or more scanlines in each call, up to the total image height. In most applications it is convenient to pass just one or a few scanlines at a time. The expected format for the passed data is discussed under "Data formats", above.

Image data should be written in top-to-bottom scanline order. The JPEG spec contains some weasel wording about how top and bottom are application-defined terms (a curious interpretation of the English language...) but if you want your files to be compatible with everyone else's, you WILL use top-to-bottom order. If the source data must be read in bottom-to-top order, you can use the JPEG library's virtual array mechanism to invert the data efficiently. Examples of this can be found in the sample application cjpeg.

The library maintains a count of the number of scanlines written so far in the next_scanline field of the JPEG object. Usually you can just use this variable as the loop counter, so that the loop test looks like "while (cinfo.next_scanline < cinfo.image_height)".

Code for this step depends heavily on the way that you store the source data. example.c shows the following code for the case of a full-size 2-D source array containing 3-byte RGB pixels:

```c
JSAMPROW row_pointer[1]; /* pointer to a single row */
int row_stride; /* physical row width in buffer */

row_stride = image_width * 3; /* JSAMPLEs per row in image_buffer */

while (cinfo.next_scanline < cinfo.image_height) {
    row_pointer[0] = & image_buffer[cinfo.next_scanline * row_stride];
    jpeg_write_scanlines(&cinfo, row_pointer, 1);
}
```

jpeg_write_scanlines() returns the number of scanlines actually written. This will normally be equal to the number passed in, so you can usually ignore the return value. It is different in just two cases:
* If you try to write more scanlines than the declared image height, the additional scanlines are ignored.

* If you use a suspending data destination manager, output buffer overrun will cause the compressor to return before accepting all the passed lines. This feature is discussed under "I/O suspension", below. The normal stdio destination manager will NOT cause this to happen.

In any case, the return value is the same as the change in the value of next_scanline.

6. jpeg_finish_compress(...);

After all the image data has been written, call jpeg_finish_compress() to complete the compression cycle. This step is ESSENTIAL to ensure that the last bufferload of data is written to the data destination. jpeg_finish_compress() also releases working memory associated with the JPEG object.

Typical code:

jpeg_finish_compress(&cinfo);

If using the stdio destination manager, don't forget to close the output stdio stream (if necessary) afterwards.

If you have requested a multi-pass operating mode, such as Huffman code optimization, jpeg_finish_compress() will perform the additional passes using data buffered by the first pass. In this case jpeg_finish_compress() may take quite a while to complete. With the default compression parameters, this will not happen.

It is an error to call jpeg_finish_compress() before writing the necessary total number of scanlines. If you wish to abort compression, call jpeg_abort() as discussed below.

After completing a compression cycle, you may dispose of the JPEG object as discussed next, or you may use it to compress another image. In that case return to step 2, 3, or 4 as appropriate. If you do not change the destination manager, the new datastream will be written to the same target.

If you do not change any JPEG parameters, the new datastream will be written with the same parameters as before. Note that you can change the input image dimensions freely between cycles, but if you change the input colorspace, you should call jpeg_set_defaults() to adjust for the new colorspace; and then you'll need to repeat all of step 3.

7. Release the JPEG compression object.
When you are done with a JPEG compression object, destroy it by calling jpeg_destroy_compress(). This will free all subsidiary memory (regardless of the previous state of the object). Or you can call jpeg_destroy(), which works for either compression or decompression objects --- this may be more convenient if you are sharing code between compression and decompression cases. (Actually, these routines are equivalent except for the declared type of the passed pointer. To avoid gripes from ANSI C compilers, jpeg_destroy() should be passed a j_common_ptr.)

If you allocated the jpeg_compress_struct structure from malloc(), freeing it is your responsibility --- jpeg_destroy() won't. Ditto for the error handler structure.

Typical code:

jpeg_destroy_compress(&cinfo);

8. Aborting.

If you decide to abort a compression cycle before finishing, you can clean up in either of two ways:

* If you don't need the JPEG object any more, just call jpeg_destroy_compress() or jpeg_destroy() to release memory. This is legitimate at any point after calling jpeg_create_compress() --- in fact, it's safe even if jpeg_create_compress() fails.

* If you want to re-use the JPEG object, call jpeg_abort_compress(), or call jpeg_abort() which works on both compression and decompression objects. This will return the object to an idle state, releasing any working memory. jpeg_abort() is allowed at any time after successful object creation.

Note that cleaning up the data destination, if required, is your responsibility; neither of these routines will call term_destination(). (See "Compressed data handling", below, for more about that.)

jpeg_destroy() and jpeg_abort() are the only safe calls to make on a JPEG object that has reported an error by calling error_exit (see "Error handling" for more info). The internal state of such an object is likely to be out of whack. Either of these two routines will return the object to a known state.

Decompression details
---------------------

Here we revisit the JPEG decompression outline given in the overview.
1. Allocate and initialize a JPEG decompression object.

   This is just like initialization for compression, as discussed above,  
   except that the object is a "struct jpeg_decompress_struct" and you  
   call jpeg_create_decompress(). Error handling is exactly the same.

   Typical code:

   ```c
   struct jpeg_decompress_struct cinfo;
   struct jpeg_error_mgr jerr;
   ...
   cinfo.err = jpeg_std_error(&jerr);
   jpeg_create_decompress(&cinfo);
   ```

   (Both here and in the IJG code, we usually use variable name "cinfo" for  
   both compression and decompression objects.)

2. Specify the source of the compressed data (eg, a file).

   As previously mentioned, the JPEG library reads compressed data from a "data  
   source" module. The library includes one data source module which knows how  
   to read from a stdio stream. You can use your own source module if you want  
   to do something else, as discussed later.

   If you use the standard source module, you must open the source stdio stream  
   beforehand. Typical code for this step looks like:

   ```c
   FILE * infile;
   ...
   if ((infile = fopen(filename, "rb")) == NULL) {
     fprintf(stderr, "can't open %s
", filename);
     exit(1);
   }
   jpeg_stdio_src(&cinfo, infile);
   ```

   where the last line invokes the standard source module.

   WARNING: it is critical that the binary compressed data be read unchanged.  
   On non-Unix systems the stdio library may perform newline translation or  
   otherwise corrupt binary data. To suppress this behavior, you may need to use  
   a "b" option to fopen (as shown above), or use setmode() or another routine to  
   put the stdio stream in binary mode. See cjpeg.c and djpeg.c for code that  
   has been found to work on many systems.

   You may not change the data source between calling jpeg_read_header() and  
   jpeg_finish_decompress(). If you wish to read a series of JPEG images from  
   a single source file, you should repeat the jpeg_read_header() to
jpeg_finish_decompress() sequence without reinitializing either the JPEG object or the data source module; this prevents buffered input data from being discarded.

3. Call jpeg_read_header() to obtain image info.

Typical code for this step is just

```c
jpeg_read_header(&cinfo, TRUE);
```

This will read the source datastream header markers, up to the beginning of the compressed data proper. On return, the image dimensions and other info have been stored in the JPEG object. The application may wish to consult this information before selecting decompression parameters.

More complex code is necessary if

* A suspending data source is used --- in that case jpeg_read_header() may return before it has read all the header data. See "I/O suspension", below. The normal stdio source manager will NOT cause this to happen.
* Abbreviated JPEG files are to be processed --- see the section on abbreviated datastreams. Standard applications that deal only in interchange JPEG files need not be concerned with this case either.

It is permissible to stop at this point if you just wanted to find out the image dimensions and other header info for a JPEG file. In that case, call jpeg_destroy() when you are done with the JPEG object, or call jpeg_abort() to return it to an idle state before selecting a new data source and reading another header.

4. Set parameters for decompression.

jpeg_read_header() sets appropriate default decompression parameters based on the properties of the image (in particular, its colorspace). However, you may well want to alter these defaults before beginning the decompression. For example, the default is to produce full color output from a color file.

If you want colormapped output you must ask for it. Other options allow the returned image to be scaled and allow various speed/quality tradeoffs to be selected. "Decompression parameter selection", below, gives details.

If the defaults are appropriate, nothing need be done at this step.

Note that all default values are set by each call to jpeg_read_header(). If you reuse a decompression object, you cannot expect your parameter settings to be preserved across cycles, as you can for compression.

You must set desired parameter values each time.
5. jpeg_start_decompress(...);

Once the parameter values are satisfactory, call jpeg_start_decompress() to begin decompression. This will initialize internal state, allocate working memory, and prepare for returning data.

Typical code is just

jpeg_start_decompress(&cinfo);

If you have requested a multi-pass operating mode, such as 2-pass color quantization, jpeg_start_decompress() will do everything needed before data output can begin. In this case jpeg_start_decompress() may take quite a while to complete. With a single-scan (non progressive) JPEG file and default decompression parameters, this will not happen; jpeg_start_decompress() will return quickly.

After this call, the final output image dimensions, including any requested scaling, are available in the JPEG object; so is the selected colormap, if colormapped output has been requested. Useful fields include

output_width	image width and height, as scaled
output_height
out_color_components# of color components in out_color_space
output_components# of color components returned per pixel
colormapthe selected colormap, if any
actual_number_of_colorsnumber of entries in colormap

output_components is 1 (a colormap index) when quantizing colors; otherwise it equals out_color_components. It is the number of JSAMPLE values that will be emitted per pixel in the output arrays.

Typically you will need to allocate data buffers to hold the incoming image. You will need output_width * output_components JSAMPLEs per scanline in your output buffer, and a total of output_height scanlines will be returned.

Note: if you are using the JPEG library's internal memory manager to allocate data buffers (as djpeg does), then the manager's protocol requires that you request large buffers *before* calling jpeg_start_decompress(). This is a little tricky since the output_XXX fields are not normally valid then. You can make them valid by calling jpeg_calc_output_dimensions() after setting the relevant parameters (scaling, output color space, and quantization flag).

6. while (scan lines remain to be read)
jpeg_read_scanlines(...);
Now you can read the decompressed image data by calling jpeg_read_scanlines() one or more times. At each call, you pass in the maximum number of scanlines to be read (ie, the height of your working buffer); jpeg_read_scanlines() will return up to that many lines. The return value is the number of lines actually read. The format of the returned data is discussed under "Data formats", above. Don't forget that grayscale and color JPEGs will return different data formats!

Image data is returned in top-to-bottom scanline order. If you must write out the image in bottom-to-top order, you can use the JPEG library's virtual array mechanism to invert the data efficiently. Examples of this can be found in the sample application djpeg.

The library maintains a count of the number of scanlines returned so far in the output_scanline field of the JPEG object. Usually you can just use this variable as the loop counter, so that the loop test looks like "while (cinfo.output_scanline < cinfo.output_height)". (Note that the test should NOT be against image_height, unless you never use scaling. The image_height field is the height of the original unscaled image.) The return value always equals the change in the value of output_scanline.

If you don't use a suspending data source, it is safe to assume that jpeg_read_scanlines() reads at least one scanline per call, until the bottom of the image has been reached.

If you use a buffer larger than one scanline, it is NOT safe to assume that jpeg_read_scanlines() fills it. (The current implementation returns only a few scanlines per call, no matter how large a buffer you pass.) So you must always provide a loop that calls jpeg_read_scanlines() repeatedly until the whole image has been read.

7. jpeg_finish_decompress(...);

After all the image data has been read, call jpeg_finish_decompress() to complete the decompression cycle. This causes working memory associated with the JPEG object to be released.

Typical code:

jpeg_finish_decompress(&cinfo);

If using the stdio source manager, don't forget to close the source stdio stream if necessary.

It is an error to call jpeg_finish_decompress() before reading the correct total number of scanlines. If you wish to abort decompression, call jpeg_abort() as discussed below.
After completing a decompression cycle, you may dispose of the JPEG object as discussed next, or you may use it to decompress another image. In that case return to step 2 or 3 as appropriate. If you do not change the source manager, the next image will be read from the same source.

8. Release the JPEG decompression object.

When you are done with a JPEG decompression object, destroy it by calling jpeg_destroy_decompress() or jpeg_destroy(). The previous discussion of destroying compression objects applies here too.

Typical code:

jpeg_destroy_decompress(&cinfo);


You can abort a decompression cycle by calling jpeg_destroy_decompress() or jpeg_destroy() if you don’t need the JPEG object any more, or jpeg_abort_decompress() or jpeg_abort() if you want to reuse the object. The previous discussion of aborting compression cycles applies here too.

Mechanics of usage: include files, linking, etc

Applications using the JPEG library should include the header file jpeglib.h to obtain declarations of data types and routines. Before including jpeglib.h, include system headers that define at least the typedefs FILE and size_t. On ANSI-conforming systems, including <stdio.h> is sufficient; on older Unix systems, you may need <sys/types.h> to define size_t.

If the application needs to refer to individual JPEG library error codes, also include jerror.h to define those symbols.

jpeglib.h indirectly includes the files jconfig.h and jmorecfg.h. If you are installing the JPEG header files in a system directory, you will want to install all four files: jpeglib.h, jerror.h, jconfig.h, jmorecfg.h.

The most convenient way to include the JPEG code into your executable program is to prepare a library file ("libjpeg.a", or a corresponding name on non-Unix machines) and reference it at your link step. If you use only half of the library (only compression or only decompression), only that much code will be included from the library, unless your linker is hopelessly brain-damaged. The supplied makefiles build libjpeg.a automatically (see install.txt).
While you can build the JPEG library as a shared library if the whim strikes you, we don't really recommend it. The trouble with shared libraries is that at some point you'll probably try to substitute a new version of the library without recompiling the calling applications. That generally doesn't work because the parameter struct declarations usually change with each new version. In other words, the library's API is *not* guaranteed binary compatible across versions; we only try to ensure source-code compatibility. (In hindsight, it might have been smarter to hide the parameter structs from applications and introduce a ton of access functions instead. Too late now, however.)

On some systems your application may need to set up a signal handler to ensure that temporary files are deleted if the program is interrupted. This is most critical if you are on MS-DOS and use the jmemdos.c memory manager back end; it will try to grab extended memory for temp files, and that space will NOT be freed automatically. See cjpeg.c or djpeg.c for an example signal handler.

It may be worth pointing out that the core JPEG library does not actually require the stdio library: only the default source/destination managers and error handler need it. You can use the library in a stdio-less environment if you replace those modules and use jmemnobs.c (or another memory manager of your own devising). More info about the minimum system library requirements may be found in jinclude.h.

ADVANCED FEATURES
=================
Compression parameter selection
---------------------------------

This section describes all the optional parameters you can set for JPEG compression, as well as the "helper" routines provided to assist in this task. Proper setting of some parameters requires detailed understanding of the JPEG standard; if you don't know what a parameter is for, it's best not to mess with it! See REFERENCES in the README file for pointers to more info about JPEG.

It's a good idea to call jpeg_set_defaults() first, even if you plan to set all the parameters; that way your code is more likely to work with future JPEG libraries that have additional parameters. For the same reason, we recommend you use a helper routine where one is provided, in preference to twiddling cinfo fields directly.

The helper routines are:

jpeg_set_defaults (j_compress_ptr cinfo)
This routine sets all JPEG parameters to reasonable defaults, using only the input image’s color space (field in_color_space, which must already be set in cinfo). Many applications will only need to use this routine and perhaps jpeg_set_quality().

```c
jpeg_set_colorspace (j_compress_ptr cinfo, J_COLOR_SPACE colorspace)
```
Sets the JPEG file’s colorspace (field jpeg_color_space) as specified, and sets other color-space-dependent parameters appropriately. See “Special color spaces”, below, before using this. A large number of parameters, including all per-component parameters, are set by this routine; if you want to twiddle individual parameters you should call jpeg_set_colorspace() before rather than after.

```c
jpeg_default_colorspace (j_compress_ptr cinfo)
```
Selects an appropriate JPEG colorspace based on cinfo->in_color_space, and calls jpeg_set_colorspace(). This is actually a subroutine of jpeg_set_defaults(). It’s broken out in case you want to change just the colorspace-dependent JPEG parameters.

```c
jpeg_set_quality (j_compress_ptr cinfo, int quality, boolean force_baseline)
```
Constructs JPEG quantization tables appropriate for the indicated quality setting. The quality value is expressed on the 0..100 scale recommended by IJG (cjpeg’s ”-quality” switch uses this routine). Note that the exact mapping from quality values to tables may change in future IJG releases as more is learned about DCT quantization. If the force_baseline parameter is TRUE, then the quantization table entries are constrained to the range 1..255 for full JPEG baseline compatibility. In the current implementation, this only makes a difference for quality settings below 25, and it effectively prevents very small/low quality files from being generated. The IJG decoder is capable of reading the non-baseline files generated at low quality settings when force_baseline is FALSE, but other decoders may not be.

```c
jpeg_set_linear_quality (j_compress_ptr cinfo, int scale_factor, boolean force_baseline)
```
Same as jpeg_set_quality() except that the generated tables are the sample tables given in the JPEC spec section K.1, multiplied by the specified scale factor (which is expressed as a percentage; thus scale_factor = 100 reproduces the spec’s tables). Note that larger scale factors give lower quality. This entry point is useful for conforming to the Adobe PostScript DCT conventions, but we do not recommend linear scaling as a user-visible quality scale otherwise. force_baseline again constrains the computed table entries to 1..255.

```c
int jpeg_quality_scaling (int quality)
```
Converts a value on the IJG-recommended quality scale to a linear scaling percentage. Note that this routine may change or go away in future releases --- IJG may choose to adopt a scaling method that
can't be expressed as a simple scalar multiplier, in which case the premise of this routine collapses. Caveat user.

jpeg_default_qtables (j_compress_ptr cinfo, boolean force_baseline)
Set default quantization tables with linear q_scale_factor[] values (see below).

jpeg_add_quant_table (j_compress_ptr cinfo, int which_tbl,
       const unsigned int *basic_table,
       int scale_factor, boolean force_baseline)
Allows an arbitrary quantization table to be created. which_tbl indicates which table slot to fill. basic_table points to an array of 64 unsigned ints given in normal array order. These values are multiplied by scale_factor/100 and then clamped to the range 1..65535 (or to 1..255 if force_baseline is TRUE).
CAUTION: prior to library version 6a, jpeg_add_quant_table expected the basic table to be given in JPEG zigzag order. If you need to write code that works with either older or newer versions of this routine, you must check the library version number. Something like "#if JPEG_LIB_VERSION >= 61" is the right test.

jpeg_simple_progression (j_compress_ptr cinfo)
Generates a default scan script for writing a progressive-JPEG file. This is the recommended method of creating a progressive file, unless you want to make a custom scan sequence. You must ensure that the JPEG color space is set correctly before calling this routine.

Compression parameters (cinfo fields) include:

int block_size
Set DCT block size. All N from 1 to 16 are possible. Default is 8 (baseline format).
Larger values produce higher compression,
smaller values produce higher quality.
An exact DCT stage is possible with 1 or 2.
With the default quality of 75 and default Luminance qtable the DCT+Quantization stage is lossless for value 1.
Note that values other than 8 require a SmartScale capable decoder, introduced with IJG JPEG 8. Setting the block_size parameter for compression works with version 8c and later.

J_DCT_METHOD dct_method
Selects the algorithm used for the DCT step. Choices are:
JDCT_ISLOW: slow but accurate integer algorithm
JDCT_IFAST: faster, less accurate integer method
JDCT_FLOAT: floating-point method
JDCT_DEFAULT: default method (normally JDCT_ISLOW)
JDCT_FASTEST: fastest method (normally JDCT_IFAST)
The FLOAT method is very slightly more accurate than the ISLOW method, but may give different results on different machines due to varying roundoff behavior. The integer methods should give the same results on all machines. On machines with sufficiently fast FP hardware, the floating-point method may also be the fastest. The IFAST method is considerably less accurate than the other two; its use is not recommended if high quality is a concern. JDCT_DEFAULT and JDCT_FASTEST are macros configurable by each installation.

unsigned int scale_num, scale_denom
Scale the image by the fraction scale_num/scale_denom. Default is 1/1, or no scaling. Currently, the supported scaling ratios are M/N with all N from 1 to 16, where M is the destination DCT size, which is 8 by default (see block_size parameter above).
(The library design allows for arbitrary scaling ratios but this is not likely to be implemented any time soon.)

J_COLOR_SPACE jpeg_color_space
int num_components
The JPEG color space and corresponding number of components; see "Special color spaces", below, for more info. We recommend using jpeg_set_color_space() if you want to change these.

boolean optimize_coding
TRUE causes the compressor to compute optimal Huffman coding tables for the image. This requires an extra pass over the data and therefore costs a good deal of space and time. The default is FALSE, which tells the compressor to use the supplied or default Huffman tables. In most cases optimal tables save only a few percent of file size compared to the default tables. Note that when this is TRUE, you need not supply Huffman tables at all, and any you do supply will be overwritten.

unsigned int restart_interval
int restart_in_rows
To emit restart markers in the JPEG file, set one of these nonzero. Set restart_interval to specify the exact interval in MCU blocks. Set restart_in_rows to specify the interval in MCU rows. (If restart_in_rows is not 0, then restart_interval is set after the image width in MCUs is computed.) Defaults are zero (no restarts). One restart marker per MCU row is often a good choice.
NOTE: the overhead of restart markers is higher in grayscale JPEG files than in color files, and MUCH higher in progressive JPEGs. If you use restarts, you may want to use larger intervals in those cases.

const jpeg_scan_info * scan_info
int num_scans
By default, scan_info is NULL; this causes the compressor to write a single-scan sequential JPEG file. If not NULL, scan_info points to an array of scan definition records of length num_scans. The compressor will then write a JPEG file having one scan for each scan definition record. This is used to generate noninterleaved or progressive JPEG files. The library checks that the scan array defines a valid JPEG scan sequence. (jpeg_simple_progression creates a suitable scan definition array for progressive JPEG.) This is discussed further under "Progressive JPEG support".

boolean do_fancy_downsampling
If TRUE, use direct DCT scaling with DCT size > 8 for downsampling of chroma components. If FALSE, use only DCT size <= 8 and simple separate downsampling. Default is TRUE. For better image stability in multiple generation compression cycles it is preferable that this value matches the corresponding do_fancy_upsampling value in decompression.

int smoothing_factor
If non-zero, the input image is smoothed; the value should be 1 for minimal smoothing to 100 for maximum smoothing. Consult jcsample.c for details of the smoothing algorithm. The default is zero.

boolean write_JFIF_header
If TRUE, a JFIF APP0 marker is emitted. jpeg_set_defaults() and jpeg_set_colorspace() set this TRUE if a JFIF-legal JPEG color space (ie, YCbCr or grayscale) is selected, otherwise FALSE.

UINT8 JFIF_major_version
UINT8 JFIF_minor_version
The version number to be written into the JFIF marker. jpeg_set_defaults() initializes the version to 1.01 (major=minor=1). You should set it to 1.02 (major=1, minor=2) if you plan to write any JFIF 1.02 extension markers.

UINT8 density_unit
UINT16 X_density
UINT16 Y_density
The resolution information to be written into the JFIF marker; not used otherwise. density_unit may be 0 for unknown, 1 for dots/inch, or 2 for dots/cm. The default values are 0,1,1 indicating square pixels of unknown size.

boolean write_Adobe_marker
If TRUE, an Adobe APP14 marker is emitted. jpeg_set_defaults() and jpeg_set_colorspace() set this TRUE if JPEG color space RGB, CMYK,
or YCCK is selected, otherwise FALSE. It is generally a bad idea to set both write_JFIF_header and write_Adobe_marker. In fact, you probably shouldn't change the default settings at all --- the default behavior ensures that the JPEG file's color space can be recognized by the decoder.

JQUANT_TBL * quant_tbl_ptrs[NUM_QUANT_TBLS]
Pointers to coefficient quantization tables, one per table slot, or NULL if no table is defined for a slot. Usually these should be set via one of the above helper routines; jpeg_add_quant_table() is general enough to define any quantization table. The other routines will set up table slot 0 for luminance quality and table slot 1 for chrominance.

int q_scale_factor[NUM_QUANT_TBLS]
Linear quantization scaling factors (percentage, initialized 100) for use with jpeg_default_qtables(). See rdswitch.c and cjpeg.c for an example of usage. Note that the q_scale_factor[] fields are the "linear" scales, so you have to convert from user-defined ratings via jpeg_quality_scaling(). Here is an example code which corresponds to cjpeg -quality 90,70:

```
jpeg_set_defaults(cinfo);
/* Set luminance quality 90. */
cinfo->q_scale_factor[0] = jpeg_quality_scaling(90);
/* Set chrominance quality 70. */
cinfo->q_scale_factor[1] = jpeg_quality_scaling(70);
jpeg_default_qtables(cinfo, force_baseline);
```

CAUTION: You must also set 1x1 subsampling for efficient separate color quality selection, since the default value used by library is 2x2:

```
cinfo->comp_info[0].v_samp_factor = 1;
cinfo->comp_info[0].h_samp_factor = 1;
```

JHUFF_TBL * dc_huff_tbl_ptrs[NUM_HUFF_TBLS]
JHUFF_TBL * ac_huff_tbl_ptrs[NUM_HUFF_TBLS]
Pointers to Huffman coding tables, one per table slot, or NULL if no table is defined for a slot. Slots 0 and 1 are filled with the JPEG sample tables by jpeg_set_defaults(). If you need to allocate more table structures, jpeg_alloc_huff_table() may be used. Note that optimal Huffman tables can be computed for an image by setting optimize_coding, as discussed above; there's seldom any need to mess with providing your own Huffman tables.
The actual dimensions of the JPEG image that will be written to the file are given by the following fields. These are computed from the input image dimensions and the compression parameters by jpeg_start_compress(). You can also call jpeg_calc_jpeg_dimensions() to obtain the values that will result from the current parameter settings. This can be useful if you are trying to pick a scaling ratio that will get close to a desired target size.

JDIMENSION jpeg_width
Actual dimensions of output image.

JDIMENSION jpeg_height

Per-component parameters are stored in the struct cinfo.comp_info[i] for component number i. Note that components here refer to components of the JPEG color space, *not* the source image color space. A suitably large comp_info[] array is allocated by jpeg_set_defaults(); if you choose not to use that routine, it's up to you to allocate the array.

int component_id
The one-byte identifier code to be recorded in the JPEG file for this component. For the standard color spaces, we recommend you leave the default values alone.

int h_samp_factor
int v_samp_factor
Horizontal and vertical sampling factors for the component; must be 1..4 according to the JPEG standard. Note that larger sampling factors indicate a higher-resolution component; many people find this behavior quite unintuitive. The default values are 2,2 for luminance components and 1,1 for chrominance components, except for grayscale where 1,1 is used.

int quant_tbl_no
Quantization table number for component. The default value is 0 for luminance components and 1 for chrominance components.

int dc_tbl_no
int ac_tbl_no
DC and AC entropy coding table numbers. The default values are 0 for luminance components and 1 for chrominance components.

int component_index
Must equal the component's index in comp_info[]. (Beginning in release v6, the compressor library will fill this in automatically; you don't have to.)

Decompression parameter selection
Decompression parameter selection is somewhat simpler than compression parameter selection, since all of the JPEG internal parameters are recorded in the source file and need not be supplied by the application. (Unless you are working with abbreviated files, in which case see “Abbreviated datastreams”, below.) Decompression parameters control the postprocessing done on the image to deliver it in a format suitable for the application's use. Many of the parameters control speed/quality tradeoffs, in which faster decompression may be obtained at the price of a poorer-quality image. The defaults select the highest quality (slowest) processing.

The following fields in the JPEG object are set by jpeg_read_header() and may be useful to the application in choosing decompression parameters:

- **JDIMENSION image_width**: Width and height of image
- **JDIMENSION image_height**: Integer number of components
- **J_COLOR_SPACE jpeg_color_space**: Colorspace of image
- **boolean saw_JFIF_marker**: TRUE if a JFIF APP0 marker was seen
- **UINT8 JFIF_major_version**: Version information from JFIF marker
- **UINT8 JFIF_minor_version**: Color transform code from Adobe marker
- **UINT8 density_unit**: Resolution data from JFIF marker
- **UINT16 X_density**: X density
- **UINT16 Y_density**: Y density
- **boolean saw_Adobe_marker**: TRUE if an Adobe APP14 marker was seen
- **UINT8 Adobe_transform**: Color transform code from Adobe marker

The JPEG color space, unfortunately, is something of a guess since theJPEG standard proper does not provide a way to record it. In practice most files adhere to the JFIF or Adobe conventions, and the decoder will recognize these correctly. See "Special color spaces", below, for more info.

The decompression parameters that determine the basic properties of the returned image are:

- **J_COLOR_SPACE out_color_space**: Output color space. jpeg_read_header() sets an appropriate default based on jpeg_color_space; typically it will be RGB or grayscale. The application can change this field to request output in a different colorspace. For example, set it to JCSGRAYSCALE to get grayscale output from a color file. (This is useful for previewing: grayscale output is faster than full color since the color components need not be processed.) Note that not all possible color space transforms are currently implemented; you may need to extend jdcolor.c if you want an unusual conversion.
unsigned int scale_num, scale_denom
Scale the image by the fraction scale_num/scale_denom. Currently, the supported scaling ratios are M/N with all M from 1 to 16, where N is the source DCT size, which is 8 for baseline JPEG. (The library design allows for arbitrary scaling ratios but this is not likely to be implemented any time soon.) The values are initialized by jpeg_read_header() with the source DCT size. For baseline JPEG this is 8/8. If you change only the scale_num value while leaving the other unchanged, then this specifies the DCT scaled size to be applied on the given input. For baseline JPEG this is equivalent to M/8 scaling, since the source DCT size for baseline JPEG is 8. Smaller scaling ratios permit significantly faster decoding since fewer pixels need be processed and a simpler IDCT method can be used.

boolean quantize_colors
If set TRUE, colormapped output will be delivered. Default is FALSE, meaning that full-color output will be delivered.

The next three parameters are relevant only if quantize_colors is TRUE.

int desired_number_of_colors
Maximum number of colors to use in generating a library-supplied color map (the actual number of colors is returned in a different field). Default 256. Ignored when the application supplies its own color map.

boolean two_pass_quantize
If TRUE, an extra pass over the image is made to select a custom color map for the image. This usually looks a lot better than the one-size-fits-all colormap that is used otherwise. Default is TRUE. Ignored when the application supplies its own color map.

J_DITHER_MODE dither_mode
Selects color dithering method. Supported values are:
JDITHER_NONE
No dithering: fast, very low quality
JDITHER_ORDERED
Ordered dither: moderate speed and quality
JDITHER_FS
Floyd-Steinberg dither: slow, high quality
Default is JDITHER_FS. (At present, ordered dither is implemented only in the single-pass, standard-colormap case. If you ask for ordered dither when two_pass_quantize is TRUE or when you supply an external color map, you'll get F-S dithering.)

When quantize_colors is TRUE, the target color map is described by the next two fields. colormap is set to NULL by jpeg_read_header(). The application can supply a color map by setting colormap non-NULL and setting actual_number_of_colors to the map size. Otherwise, jpeg_start_decompress() selects a suitable color map and sets these two fields itself.
[Implementation restriction: at present, an externally supplied colormap is
only accepted for 3-component output color spaces.]

JSAMPARRAY colormap
The color map, represented as a 2-D pixel array of out_color_components
rows and actual_number_of_colors columns. Ignored if not quantizing.
CAUTION: if the JPEG library creates its own colormap, the storage
pointed to by this field is released by jpeg_finish_decompress().
Copy the colormap somewhere else first, if you want to save it.

int actual_number_of_colors
The number of colors in the color map.

Additional decompression parameters that the application may set include:

J_DCT_METHOD dct_method
Selects the algorithm used for the DCT step. Choices are the same
as described above for compression.

boolean do_fancy_upsampling
If TRUE, use direct DCT scaling with DCT size > 8 for upsampling
of chroma components.
If FALSE, use only DCT size <= 8 and simple separate upsampling.
Default is TRUE.
For better image stability in multiple generation compression cycles
it is preferable that this value matches the corresponding
do_fancy_downsampling value in compression.

boolean do_block_smoothing
If TRUE, interblock smoothing is applied in early stages of decoding
progressive JPEG files; if FALSE, not. Default is TRUE. Early
progression stages look "fuzzy" with smoothing, "blocky" without.
In any case, block smoothing ceases to be applied after the first few
AC coefficients are known to full accuracy, so it is relevant only
when using buffered-image mode for progressive images.

boolean enable_1pass_quant
boolean enable_external_quant
boolean enable_2pass_quant
These are significant only in buffered-image mode, which is
described in its own section below.

The output image dimensions are given by the following fields. These are
computed from the source image dimensions and the decompression parameters
by jpeg_start_decompress(). You can also call jpeg_calc_output_dimensions()
to obtain the values that will result from the current parameter settings.
This can be useful if you are trying to pick a scaling ratio that will get
close to a desired target size. It's also important if you are using the
JPEG library's memory manager to allocate output buffer space, because you are supposed to request such buffers *before* jpeg_start_decompress().

JDIMENSION output_width
Actual dimensions of output image.

JDIMENSION output_height

int out_color_components
Number of color components in out_color_space.

int output_components
Number of color components returned.

int rec_outbuf_height
Recommended height of scanline buffer.

When quantizing colors, output_components is 1, indicating a single color map index per pixel. Otherwise it equals out_color_components. The output arrays are required to be output_width * output_components JSAMPLEs wide.

rec_outbuf_height is the recommended minimum height (in scanlines) of the buffer passed to jpeg_read_scanlines(). If the buffer is smaller, the library will still work, but time will be wasted due to unnecessary data copying. In high-quality modes, rec_outbuf_height is always 1, but some faster, lower-quality modes set it to larger values (typically 2 to 4).

If you are going to ask for a high-speed processing mode, you may as well go to the trouble of honoring rec_outbuf_height so as to avoid data copying. (An output buffer larger than rec_outbuf_height lines is OK, but won't provide any material speed improvement over that height.)

Special color spaces
---------------------

The JPEG standard itself is "color blind" and doesn't specify any particular color space. It is customary to convert color data to a luminance/chrominance color space before compressing, since this permits greater compression. The existing de-facto JPEG file format standards specify YCbCr or grayscale data (JFIF), or grayscale, RGB, YCbCr, CMYK, or YCCK (Adobe). For special applications such as multispectral images, other color spaces can be used, but it must be understood that such files will be unportable.

The JPEG library can handle the most common colorspace conversions (namely RGB <=> YCbCr and CMYK <=> YCCK). It can also deal with data of an unknown color space, passing it through without conversion. If you deal extensively with an unusual color space, you can easily extend the library to understand additional color spaces and perform appropriate conversions.

For compression, the source data's color space is specified by field in_color_space. This is transformed to the JPEG file's color space given by jpeg_color_space. jpeg_set_defaults() chooses a reasonable JPEG color space depending on in_color_space, but you can override this by calling jpeg_set_colorspace(). Of course you must select a supported transformation. jccolor.c currently supports the following transformations:

RGB => YCbCr
RGB => GRAYSCALE
YCbCr => GRAYSCALE
CMYK => YCCK

plus the null transforms: GRAYSCALE => GRAYSCALE, RGB => RGB,
YCbCr => YCbCr, CMYK => CMYK, YCCK => YCCK, and UNKNOWN => UNKNOWN.

The de-facto file format standards (JFIF and Adobe) specify APPn markers that indicate the color space of the JPEG file. It is important to ensure that these are written correctly, or omitted if the JPEG file's color space is not one of the ones supported by the de-facto standards. jpeg_set_colorspace() will set the compression parameters to include or omit the APPn markers properly, so long as it is told the truth about the JPEG color space.

For example, if you are writing some random 3-component color space without conversion, don't try to fake out the library by setting in_color_space and jpeg_color_space to JCS_YCbCr; use JCS_UNKNOWN. You may want to write an APPn marker of your own devising to identify the colorspace --- see "Special markers", below.

When told that the color space is UNKNOWN, the library will default to using luminance-quality compression parameters for all color components. You may well want to change these parameters. See the source code for jpeg_set_colorspace(), in jcparam.c, for details.

For decompression, the JPEG file's color space is given in jpeg_color_space, and this is transformed to the output color space out_color_space. jpeg_read_header's setting of jpeg_color_space can be relied on if the file conforms to JFIF or Adobe conventions, but otherwise it is no better than a guess. If you know the JPEG file's color space for certain, you can override jpeg_read_header's guess by setting jpeg_color_space. jpeg_read_header also selects a default output color space based on (its guess of) jpeg_color_space; set out_color_space to override this. Again, you must select a supported transformation. jdcolor.c currently supports

YCbCr => GRAYSCALE
YCbCr => RGB
GRAYSCALE => RGB
YCCK => CMYK

as well as the null transforms. (Since GRAYSCALE=>RGB is provided, an application can force grayscale JPEGs to look like color JPEGs if it only wants to handle one case.)

The two-pass color quantizer, jquant2.c, is specialized to handle RGB data (it weights distances appropriately for RGB colors). You'll need to modify the code if you want to use it for non-RGB output color spaces. Note that jquant2.c is used to map to an application-supplied colormap as well as for the normal two-pass colormap selection process.

CAUTION: it appears that Adobe Photoshop writes inverted data in CMYK JPEG files: 0 represents 100% ink coverage, rather than 0% ink as you'd expect.
This is arguably a bug in Photoshop, but if you need to work with Photoshop CMYK files, you will have to deal with it in your application. We cannot "fix" this in the library by inverting the data during the CMYK<=>YCCK transform, because that would break other applications, notably Ghostscript. Photoshop versions prior to 3.0 write EPS files containing JPEG-encoded CMYK data in the same inverted-YCCK representation used in bare JPEG files, but the surrounding PostScript code performs an inversion using the PS image operator. I am told that Photoshop 3.0 will write uninverted YCCK in EPS/JPEG files, and will omit the PS-level inversion. (But the data polarity used in bare JPEG files will not change in 3.0.) In either case, the JPEG library must not invert the data itself, or else Ghostscript would read these EPS files incorrectly.

Error handling
-------------

When the default error handler is used, any error detected inside the JPEG routines will cause a message to be printed on stderr, followed by exit(). You can supply your own error handling routines to override this behavior and to control the treatment of nonfatal warnings and trace/debug messages. The file example.c illustrates the most common case, which is to have the application regain control after an error rather than exiting.

The JPEG library never writes any message directly; it always goes through the error handling routines. Three classes of messages are recognized:

* Fatal errors: the library cannot continue.
* Warnings: the library can continue, but the data is corrupt, and a damaged output image is likely to result.
* Trace/informational messages. These come with a trace level indicating the importance of the message; you can control the verbosity of the program by adjusting the maximum trace level that will be displayed.

You may, if you wish, simply replace the entire JPEG error handling module (jerror.c) with your own code. However, you can avoid code duplication by only replacing some of the routines depending on the behavior you need. This is accomplished by calling jpeg_std_error() as usual, but then overriding some of the method pointers in the jpeg_error_mgr struct, as illustrated by example.c.

All of the error handling routines will receive a pointer to the JPEG object (a j_common_ptr which points to either a jpeg_compress_struct or a jpeg_decompress_struct; if you need to tell which, test the is_decompressor field). This struct includes a pointer to the error manager struct in its "err" field. Frequently, custom error handler routines will need to access additional data which is not known to the JPEG library or the standard error handler. The most convenient way to do this is to embed either the JPEG object or the jpeg_error_mgr struct in a larger structure that contains
additional fields; then casting the passed pointer provides access to the additional fields. Again, see example.c for one way to do it. (Beginning with IJG version 6b, there is also a void pointer "client_data" in each JPEG object, which the application can also use to find related data. The library does not touch client_data at all.)

The individual methods that you might wish to override are:

error_exit (j_common_ptr cinfo)
Receives control for a fatal error. Information sufficient to generate the error message has been stored in cinfo->err; call output_message to display it. Control must NOT return to the caller; generally this routine will exit() or longjmp() somewhere. Typically you would override this routine to get rid of the exit() default behavior. Note that if you continue processing, you should clean up the JPEG object with jpeg_abort() or jpeg_destroy().

output_message (j_common_ptr cinfo)
Actual output of any JPEG message. Override this to send messages somewhere other than stderr. Note that this method does not know how to generate a message, only where to send it.

format_message (j_common_ptr cinfo, char * buffer)
Constructs a readable error message string based on the error info stored in cinfo->err. This method is called by output_message. Few applications should need to override this method. One possible reason for doing so is to implement dynamic switching of error message language.

emit_message (j_common_ptr cinfo, int msg_level)
Decide whether or not to emit a warning or trace message; if so, calls output_message. The main reason for overriding this method would be to abort on warnings. msg_level is -1 for warnings, 0 and up for trace messages.

Only error_exit() and emit_message() are called from the rest of the JPEG library; the other two are internal to the error handler.

The actual message texts are stored in an array of strings which is pointed to by the field err->jpeg_message_table. The messages are numbered from 0 to err->last_jpeg_message, and it is these code numbers that are used in the JPEG library code. You could replace the message texts (for instance, with messages in French or German) by changing the message table pointer. See jerror.h for the default texts. CAUTION: this table will almost certainly change or grow from one library version to the next.

It may be useful for an application to add its own message texts that are handled by the same mechanism. The error handler supports a second "add-on"
message table for this purpose. To define an addon table, set the pointer
err->addon_message_table and the message numbers err->first_addon_message and
err->last_addon_message. If you number the addon messages beginning at 1000
or so, you won't have to worry about conflicts with the library's built-in
messages. See the sample applications cjpeg/djpeg for an example of using
addon messages (the addon messages are defined in cderror.h).

Actual invocation of the error handler is done via macros defined in jerror.h:
ERREXITn(...) for fatal errors
WARNMSn(...) for corrupt-data warnings
TRACEMSn(...) for trace and informational messages.
These macros store the message code and any additional parameters into the
error handler struct, then invoke the error_exit() or emit_message() method.
The variants of each macro are for varying numbers of additional parameters.
The additional parameters are inserted into the generated message using
standard printf() format codes.

See jerror.h and jerror.c for further details.

Compressed data handling (source and destination managers)
-------------------------------------------------------------

The JPEG compression library sends its compressed data to a "destination
manager" module. The default destination manager just writes the data to a
memory buffer or to a stdio stream, but you can provide your own manager to
do something else. Similarly, the decompression library calls a "source
manager" to obtain the compressed data; you can provide your own source
manager if you want the data to come from somewhere other than a memory
buffer or a stdio stream.

In both cases, compressed data is processed a bufferload at a time: the
destination or source manager provides a work buffer, and the library invokes
the manager only when the buffer is filled or emptied. (You could define a
one-character buffer to force the manager to be invoked for each byte, but
that would be rather inefficient.) The buffer's size and location are
controlled by the manager, not by the library. For example, the memory
source manager just makes the buffer pointer and length point to the original
data in memory. In this case the buffer-reload procedure will be invoked
only if the decompressor ran off the end of the datastream, which would
indicate an erroneous datastream.

The work buffer is defined as an array of datatype JOCTET, which is generally
"char" or "unsigned char". On a machine where char is not exactly 8 bits
wide, you must define JOCTET as a wider data type and then modify the data
source and destination modules to transcribe the work arrays into 8-bit units
on external storage.
A data destination manager struct contains a pointer and count defining the
next byte to write in the work buffer and the remaining free space:

JOCTET * next_output_byte; /* => next byte to write in buffer */
size_t free_in_buffer;    /* # of byte spaces remaining in buffer */

The library increments the pointer and decrements the count until the buffer
is filled. The manager's empty_output_buffer method must reset the pointer
and count. The manager is expected to remember the buffer's starting address
and total size in private fields not visible to the library.

A data destination manager provides three methods:

init_destination (j_compress_ptr cinfo)
Initialize destination. This is called by jpeg_start_compress() before any data is actually written. It must initialize
next_output_byte and free_in_buffer. free_in_buffer must be initialized to a positive value.

empty_output_buffer (j_compress_ptr cinfo)
This is called whenever the buffer has filled (free_in_buffer reaches zero). In typical applications, it should write out the
*entire* buffer (use the saved start address and buffer length; ignore the current state of next_output_byte and free_in_buffer).
Then reset the pointer & count to the start of the buffer, and return TRUE indicating that the buffer has been dumped.
free_in_buffer must be set to a positive value when TRUE is returned. A FALSE return should only be used when I/O suspension is
desired (this operating mode is discussed in the next section).

term_destination (j_compress_ptr cinfo)
Terminate destination --- called by jpeg_finish_compress() after all
data has been written. In most applications, this must flush any
data remaining in the buffer. Use either next_output_byte or
free_in_buffer to determine how much data is in the buffer.

term_destination() is NOT called by jpeg_abort() or jpeg_destroy(). If you
want the destination manager to be cleaned up during an abort, you must do it
yourself.

You will also need code to create a jpeg_destination_mgr struct, fill in its
method pointers, and insert a pointer to the struct into the "dest" field of
the JPEG compression object. This can be done in-line in your setup code if
you like, but it's probably cleaner to provide a separate routine similar to
the jpeg_stdio_dest() or jpeg_mem_dest() routines of the supplied destination
managers.

Decompression source managers follow a parallel design, but with some
additional framishes. The source manager struct contains a pointer and count
defining the next byte to read from the work buffer and the number of bytes
remaining:

const JOCTET * next_input_byte; /* => next byte to read from buffer */
size_t bytes_in_buffer;         /* # of bytes remaining in buffer */

The library increments the pointer and decrements the count until the buffer
is emptied. The manager's fill_input_buffer method must reset the pointer and
count. In most applications, the manager must remember the buffer's starting
address and total size in private fields not visible to the library.

A data source manager provides five methods:

init_source (j_decompress_ptr cinfo)
Initialize source. This is called by jpeg_read_header() before any
data is actually read. Unlike init_destination(), it may leave
bytes_in_buffer set to 0 (in which case a fill_input_buffer() call
will occur immediately).

fill_input_buffer (j_decompress_ptr cinfo)
This is called whenever bytes_in_buffer has reached zero and more
data is wanted. In typical applications, it should read fresh data
into the buffer (ignoring the current state of next_input_byte and
bytes_in_buffer), reset the pointer & count to the start of the
buffer, and return TRUE indicating that the buffer has been reloaded.
It is not necessary to fill the buffer entirely, only to obtain at
least one more byte. bytes_in_buffer MUST be set to a positive value
if TRUE is returned. A FALSE return should only be used when I/O
suspension is desired (this mode is discussed in the next section).

skip_input_data (j_decompress_ptr cinfo, long num_bytes)
Skip num_bytes worth of data. The buffer pointer and count should
be advanced over num_bytes input bytes, refilling the buffer as
needed. This is used to skip over a potentially large amount of
uninteresting data (such as an APPn marker). In some applications
it may be possible to optimize away the reading of the skipped data,
but it's not clear that being smart is worth much trouble; large
skips are uncommon. bytes_in_buffer may be zero on return.
A zero or negative skip count should be treated as a no-op.

resync_to_restart (j_decompress_ptr cinfo, int desired)
This routine is called only when the decompressor has failed to find
a restart (RSTn) marker where one is expected. Its mission is to
find a suitable point for resuming decompression. For most
applications, we recommend that you just use the default resync
procedure, jpeg_resync_to_restart(). However, if you are able to back
up in the input data stream, or if you have a-priori knowledge about
the likely location of restart markers, you may be able to do better. Read the read_restart_marker() and jpeg_resync_to_restart() routines in jdmarker.c if you think you'd like to implement your own resync procedure.

term_source (j_decompress_ptr cinfo)
Terminate source --- called by jpeg_finish_decompress() after all data has been read. Often a no-op.

For both fill_input_buffer() and skip_input_data(), there is no such thing as an EOF return. If the end of the file has been reached, the routine has a choice of exiting via ERREXIT() or inserting fake data into the buffer. In most cases, generating a warning message and inserting a fake EOI marker is the best course of action --- this will allow the decompressor to output however much of the image is there. In pathological cases, the decompressor may swallow the EOI and again demand data ... just keep feeding it fake EOIs. jdatasrc.c illustrates the recommended error recovery behavior.

term_source() is NOT called by jpeg_abort() or jpeg_destroy(). If you want the source manager to be cleaned up during an abort, you must do it yourself.

You will also need code to create a jpeg_source_mgr struct, fill in its method pointers, and insert a pointer to the struct into the "src" field of the JPEG decompression object. This can be done in-line in your setup code if you like, but it's probably cleaner to provide a separate routine similar to the jpeg_stdio_src() or jpeg_mem_src() routines of the supplied source managers.

For more information, consult the memory and stdio source and destination managers in jdatasrc.c and jdatadst.c.

I/O suspension
--------------

Some applications need to use the JPEG library as an incremental memory-to-memory filter: when the compressed data buffer is filled or emptied, they want control to return to the outer loop, rather than expecting that the buffer can be emptied or reloaded within the data source/destination manager subroutine. The library supports this need by providing an "I/O suspension" mode, which we describe in this section.

The I/O suspension mode is not a panacea: nothing is guaranteed about the maximum amount of time spent in any one call to the library, so it will not eliminate response-time problems in single-threaded applications. If you need guaranteed response time, we suggest you "bite the bullet" and implement a real multi-tasking capability.

To use I/O suspension, cooperation is needed between the calling application
and the data source or destination manager; you will always need a custom source/destination manager. (Please read the previous section if you haven't already.) The basic idea is that the empty_output_buffer() or fill_input_buffer() routine is a no-op, merely returning FALSE to indicate that it has done nothing. Upon seeing this, the JPEG library suspends operation and returns to its caller. The surrounding application is responsible for emptying or refilling the work buffer before calling the JPEG library again.

Compression suspension:

For compression suspension, use an empty_output_buffer() routine that returns FALSE; typically it will not do anything else. This will cause the compressor to return to the caller of jpeg_write_scanlines(), with the return value indicating that not all the supplied scanlines have been accepted. The application must make more room in the output buffer, adjust the output buffer pointer/count appropriately, and then call jpeg_write_scanlines() again, pointing to the first unconsumed scanline.

When forced to suspend, the compressor will backtrack to a convenient stopping point (usually the start of the current MCU); it will regenerate some output data when restarted. Therefore, although empty_output_buffer() is only called when the buffer is filled, you should NOT write out the entire buffer after a suspension. Write only the data up to the current position of next_output_byte/free_in_buffer. The data beyond that point will be regenerated after resumption.

Because of the backtracking behavior, a good-size output buffer is essential for efficiency; you don't want the compressor to suspend often. (In fact, an overly small buffer could lead to infinite looping, if a single MCU required more data than would fit in the buffer.) We recommend a buffer of at least several Kbytes. You may want to insert explicit code to ensure that you don't call jpeg_write_scanlines() unless there is a reasonable amount of space in the output buffer; in other words, flush the buffer before trying to compress more data.

The compressor does not allow suspension while it is trying to write JPEG markers at the beginning and end of the file. This means that:

* At the beginning of a compression operation, there must be enough free space in the output buffer to hold the header markers (typically 600 or so bytes). The recommended buffer size is bigger than this anyway, so this is not a problem as long as you start with an empty buffer. However, this restriction might catch you if you insert large special markers, such as a JFIF thumbnail image, without flushing the buffer afterwards.
* When you call jpeg_finish_compress(), there must be enough space in the output buffer to emit any buffered data and the final EOI marker. In the current implementation, half a dozen bytes should suffice for this, but for safety's sake we recommend ensuring that at least 100 bytes are free
before calling jpeg_finish_compress().

A more significant restriction is that jpeg_finish_compress() cannot suspend. This means you cannot use suspension with multi-pass operating modes, namely Huffman code optimization and multiple-scan output. Those modes write the whole file during jpeg_finish_compress(), which will certainly result in buffer overrun. (Note that this restriction applies only to compression, not decompression. The decompressor supports input suspension in all of its operating modes.)

Decompression suspension:

For decompression suspension, use a fill_input_buffer() routine that simply returns FALSE (except perhaps during error recovery, as discussed below). This will cause the decompressor to return to its caller with an indication that suspension has occurred. This can happen at four places:

* jpeg_read_header(): will return JPEG_SUSPENDED.
* jpeg_start_decompress(): will return FALSE, rather than its usual TRUE.
* jpeg_read_scanlines(): will return the number of scanlines already completed (possibly 0).
* jpeg_finish_decompress(): will return FALSE, rather than its usual TRUE.

The surrounding application must recognize these cases, load more data into the input buffer, and repeat the call. In the case of jpeg_read_scanlines(), increment the passed pointers past any scanlines successfully read.

Just as with compression, the decompressor will typically backtrack to a convenient restart point before suspending. When fill_input_buffer() is called, next_input_byte/bytes_in_buffer point to the current restart point, which is where the decompressor will backtrack to if FALSE is returned. The data beyond that position must NOT be discarded if you suspend; it needs to be re-read upon resumption. In most implementations, you'll need to shift this data down to the start of your work buffer and then load more data after it. Again, this behavior means that a several-Kbyte work buffer is essential for decent performance; furthermore, you should load a reasonable amount of new data before resuming decompression. (If you loaded, say, only one new byte each time around, you could waste a LOT of cycles.)

The skip_input_data() source manager routine requires special care in a suspension scenario. This routine is NOT granted the ability to suspend the decompressor; it can decrement bytes_in_buffer to zero, but no more. If the requested skip distance exceeds the amount of data currently in the input buffer, then skip_input_data() must set bytes_in_buffer to zero and record the additional skip distance somewhere else. The decompressor will immediately call fill_input_buffer(), which should return FALSE, which will cause a suspension return. The surrounding application must then arrange to discard the recorded number of bytes before it resumes loading the input buffer. (Yes, this design is rather baroque, but it avoids complexity in the far more common case where a non-suspending source manager is used.)
If the input data has been exhausted, we recommend that you emit a warning and insert dummy EOI markers just as a non-suspending data source manager would do. This can be handled either in the surrounding application logic or within fill_input_buffer(); the latter is probably more efficient. If fill_input_buffer() knows that no more data is available, it can set the pointer/count to point to a dummy EOI marker and then return TRUE just as though it had read more data in a non-suspending situation.

The decompressor does not attempt to suspend within standard JPEG markers; instead it will backtrack to the start of the marker and reprocess the whole marker next time. Hence the input buffer must be large enough to hold the longest standard marker in the file. Standard JPEG markers should normally not exceed a few hundred bytes each (DHT tables are typically the longest). We recommend at least a 2K buffer for performance reasons, which is much larger than any correct marker is likely to be. For robustness against damaged marker length counts, you may wish to insert a test in your application for the case that the input buffer is completely full and yet the decoder has suspended without consuming any data --- otherwise, if this situation did occur, it would lead to an endless loop. (The library can't provide this test since it has no idea whether "the buffer is full", or even whether there is a fixed-size input buffer.)

The input buffer would need to be 64K to allow for arbitrary COM or APPn markers, but these are handled specially: they are either saved into allocated memory, or skipped over by calling skip_input_data(). In the former case, suspension is handled correctly, and in the latter case, the problem of buffer overrun is placed on skip_input_data's shoulders, as explained above. Note that if you provide your own marker handling routine for large markers, you should consider how to deal with buffer overflow.

Multiple-buffer management:

In some applications it is desirable to store the compressed data in a linked list of buffer areas, so as to avoid data copying. This can be handled by having empty_output_buffer() or fill_input_buffer() set the pointer and count to reference the next available buffer; FALSE is returned only if no more buffers are available. Although seemingly straightforward, there is a pitfall in this approach: the backtrack that occurs when FALSE is returned could back up into an earlier buffer. For example, when fill_input_buffer() is called, the current pointer & count indicate the backtrack restart point. Since fill_input_buffer() will set the pointer and count to refer to a new buffer, the restart position must be saved somewhere else. Suppose a second call to fill_input_buffer() occurs in the same library call, and no additional input data is available, so fill_input_buffer must return FALSE. If the JPEG library has not moved the pointer/count forward in the current buffer, then *the correct restart point is the saved position in the prior buffer*. Prior buffers may be discarded only after the library establishes
a restart point within a later buffer. Similar remarks apply for output into a chain of buffers.

The library will never attempt to backtrack over a skip_input_data() call, so any skipped data can be permanently discarded. You still have to deal with the case of skipping not-yet-received data, however.

It's much simpler to use only a single buffer; when fill_input_buffer() is called, move any unconsumed data (beyond the current pointer/count) down to the beginning of this buffer and then load new data into the remaining buffer space. This approach requires a little more data copying but is far easier to get right.

Progressive JPEG support
------------------------

Progressive JPEG rearranges the stored data into a series of scans of increasing quality. In situations where a JPEG file is transmitted across a slow communications link, a decoder can generate a low-quality image very quickly from the first scan, then gradually improve the displayed quality as more scans are received. The final image after all scans are complete is identical to that of a regular (sequential) JPEG file of the same quality setting. Progressive JPEG files are often slightly smaller than equivalent sequential JPEG files, but the possibility of incremental display is the main reason for using progressive JPEG.

The IJG encoder library generates progressive JPEG files when given a suitable "scan script" defining how to divide the data into scans. Creation of progressive JPEG files is otherwise transparent to the encoder. Progressive JPEG files can also be read transparently by the decoder library. If the decoding application simply uses the library as defined above, it will receive a final decoded image without any indication that the file was progressive. Of course, this approach does not allow incremental display. To perform incremental display, an application needs to use the decoder library's "buffered-image" mode, in which it receives a decoded image multiple times.

Each displayed scan requires about as much work to decode as a full JPEG image of the same size, so the decoder must be fairly fast in relation to the data transmission rate in order to make incremental display useful. However, it is possible to skip displaying the image and simply add the incoming bits to the decoder's coefficient buffer. This is fast because only Huffman decoding need be done, not IDCT, upsampling, colorspace conversion, etc. The IJG decoder library allows the application to switch dynamically between displaying the image and simply absorbing the incoming bits. A properly coded application can automatically adapt the number of display passes to suit the time available as the image is received. Also, a final
higher-quality display cycle can be performed from the buffered data after the end of the file is reached.

Progressive compression:

To create a progressive JPEG file (or a multiple-scan sequential JPEG file), set the scan_info cinfo field to point to an array of scan descriptors, and perform compression as usual. Instead of constructing your own scan list, you can call the jpeg_simple_progression() helper routine to create a recommended progression sequence; this method should be used by all applications that don't want to get involved in the nitty-gritty of progressive scan sequence design. (If you want to provide user control of scan sequences, you may wish to borrow the scan script reading code found in rdswitch.c, so that you can read scan script files just like cjpeg's.) When scan_info is not NULL, the compression library will store DCT'd data into a buffer array as jpeg_write_scanlines() is called, and will emit all the requested scans during jpeg_finish_compress(). This implies that multiple-scan output cannot be created with a suspending data destination manager, since jpeg_finish_compress() does not support suspension. We should also note that the compressor currently forces Huffman optimization mode when creating a progressive JPEG file, because the default Huffman tables are unsuitable for progressive files.

Progressive decompression:

When buffered-image mode is not used, the decoder library will read all of a multi-scan file during jpeg_start_decompress(), so that it can provide a final decoded image. (Here "multi-scan" means either progressive or multi-scan sequential.) This makes multi-scan files transparent to the decoding application. However, existing applications that used suspending input with version 5 of the IJG library will need to be modified to check for a suspension return from jpeg_start_decompress().

To perform incremental display, an application must use the library's buffered-image mode. This is described in the next section.

Buffered-image mode
---------------------

In buffered-image mode, the library stores the partially decoded image in a coefficient buffer, from which it can be read out as many times as desired. This mode is typically used for incremental display of progressive JPEG files, but it can be used with any JPEG file. Each scan of a progressive JPEG file adds more data (more detail) to the buffered image. The application can display in lockstep with the source file (one display pass per input scan), or it can allow input processing to outrun display processing. By making input and display processing run independently, it is possible for the
application to adapt progressive display to a wide range of data transmission rates.

The basic control flow for buffered-image decoding is

```c
jpeg_create_decompress()
set data source
jpeg_read_header()
set overall decompression parameters
cinfo.buffered_image = TRUE;/* select buffered-image mode */
jpeg_start_decompress()
for (each output pass) {
    adjust output decompression parameters if required
    jpeg_start_output()/* start a new output pass */
    for (all scanlines in image) {
        jpeg_read_scanlines()
        display scanlines
    }
    jpeg_finish_output()/* terminate output pass */
}
jpeg_finish_decompress()
jpeg_destroy_decompress()
```

This differs from ordinary unbuffered decoding in that there is an additional level of looping. The application can choose how many output passes to make and how to display each pass.

The simplest approach to displaying progressive images is to do one display pass for each scan appearing in the input file. In this case the outer loop condition is typically

```c
while (! jpeg_input_complete(&cinfo))
```
and the start-output call should read

```c
jpeg_start_output(&cinfo, cinfo.input_scan_number);
```

The second parameter to jpeg_start_output() indicates which scan of the input file is to be displayed; the scans are numbered starting at 1 for this purpose. (You can use a loop counter starting at 1 if you like, but using the library's input scan counter is easier.) The library automatically reads data as necessary to complete each requested scan, and jpeg_finish_output() advances to the next scan or end-of-image marker (hence input_scan_number will be incremented by the time control arrives back at jpeg_start_output()). With this technique, data is read from the input file only as needed, and input and output processing run in lockstep.

After reading the final scan and reaching the end of the input file, the buffered image remains available; it can be read additional times by repeating the jpeg_start_output()/jpeg_read_scanlines()/jpeg_finish_output() sequence. For example, a useful technique is to use fast one-pass color quantization for display passes made while the image is arriving, followed by
a final display pass using two-pass quantization for highest quality. This
is done by changing the library parameters before the final output pass.
Changing parameters between passes is discussed in detail below.

In general the last scan of a progressive file cannot be recognized as such
until after it is read, so a post-input display pass is the best approach if
you want special processing in the final pass.

When done with the image, be sure to call jpeg_finish_decompress() to release
the buffered image (or just use jpeg_destroy_decompress()).

If input data arrives faster than it can be displayed, the application can
cause the library to decode input data in advance of what's needed to produce
output. This is done by calling the routine jpeg_consume_input().
The return value is one of the following:
JPEG_REACHED_SOS: reached an SOS marker (the start of a new scan)
JPEG_REACHED_EOI: reached the EOI marker (end of image)
JPEG_ROW_COMPLETED: completed reading one MCU row of compressed data
JPEG_SCAN_COMPLETED: completed reading last MCU row of current scan
JPEG_SUSPENDED: suspended before completing any of the above
(JPEG_SUSPENDED can occur only if a suspending data source is used.) This
routine can be called at any time after initializing the JPEG object. It
reads some additional data and returns when one of the indicated significant
events occurs. (If called after the EOI marker is reached, it will
immediately return JPEG_REACHED_EOI without attempting to read more data.)

The library's output processing will automatically call jpeg_consume_input()
whenever the output processing overtakes the input; thus, simple lockstep
display requires no direct calls to jpeg_consume_input(). But by adding
calls to jpeg_consume_input(), you can absorb data in advance of what is
being displayed. This has two benefits:
* You can limit buildup of unprocessed data in your input buffer.
* You can eliminate extra display passes by paying attention to the
  state of the library's input processing.

The first of these benefits only requires interspersing calls to
jpeg_consume_input() with your display operations and any other processing
you may be doing. To avoid wasting cycles due to backtracking, it's best to
call jpeg_consume_input() only after a hundred or so new bytes have arrived.
This is discussed further under "I/O suspension", above. (Note: the JPEG
library currently is not thread-safe. You must not call jpeg_consume_input()
from one thread of control if a different library routine is working on the
same JPEG object in another thread.)

When input arrives fast enough that more than one new scan is available
before you start a new output pass, you may as well skip the output pass
corresponding to the completed scan. This occurs for free if you pass
cinfo.input_scan_number as the target scan number to jpeg_start_output().
The input_scan_number field is simply the index of the scan currently being consumed by the input processor. You can ensure that this is up-to-date by emptying the input buffer just before calling jpeg_start_output(): call jpeg_consume_input() repeatedly until it returns JPEG_SUSPENDED or JPEG_REACHED_EOI.

The target scan number passed to jpeg_start_output() is saved in the cinfo.output_scan_number field. The library's output processing calls jpeg_consume_input() whenever the current input scan number and row within that scan is less than or equal to the current output scan number and row. Thus, input processing can "get ahead" of the output processing but is not allowed to "fall behind". You can achieve several different effects by manipulating this interlock rule. For example, if you pass a target scan number greater than the current input scan number, the output processor will wait until that scan starts to arrive before producing any output. (To avoid an infinite loop, the target scan number is automatically reset to the last scan number when the end of image is reached. Thus, if you specify a large target scan number, the library will just absorb the entire input file and then perform an output pass. This is effectively the same as what jpeg_start_decompress() does when you don't select buffered-image mode.) When you pass a target scan number equal to the current input scan number, the image is displayed no faster than the current input scan arrives. The final possibility is to pass a target scan number less than the current input scan number; this disables the input/output interlock and causes the output processor to simply display whatever it finds in the image buffer, without waiting for input. (However, the library will not accept a target scan number less than one, so you can't avoid waiting for the first scan.)

When data is arriving faster than the output display processing can advance through the image, jpeg_consume_input() will store data into the buffered image beyond the point at which the output processing is reading data out again. If the input arrives fast enough, it may "wrap around" the buffer to the point where the input is more than one whole scan ahead of the output. If the output processing simply proceeds through its display pass without paying attention to the input, the effect seen on-screen is that the lower part of the image is one or more scans better in quality than the upper part. Then, when the next output scan is started, you have a choice of what target scan number to use. The recommended choice is to use the current input scan number at that time, which implies that you've skipped the output scans corresponding to the input scans that were completed while you processed the previous output scan. In this way, the decoder automatically adapts its speed to the arriving data, by skipping output scans as necessary to keep up with the arriving data.

When using this strategy, you'll want to be sure that you perform a final output pass after receiving all the data; otherwise your last display may not be full quality across the whole screen. So the right outer loop logic is something like this:
do {
    absorb any waiting input by calling jpeg_consume_input()
    final_pass = jpeg_input_complete(&cinfo);
    adjust output decompression parameters if required
    jpeg_start_output(&cinfo, cinfo.input_scan_number);
    ...
    jpeg_finish_output()
} while (! final_pass);

rather than quitting as soon as jpeg_input_complete() returns TRUE. This
arrangement makes it simple to use higher-quality decoding parameters
for the final pass. But if you don't want to use special parameters for
the final pass, the right loop logic is like this:
for (;;) {
    absorb any waiting input by calling jpeg_consume_input()
    jpeg_start_output(&cinfo, cinfo.input_scan_number);
    ...
    jpeg_finish_output()
    if (jpeg_input_complete(&cinfo) &
        cinfo.input_scan_number == cinfo.output_scan_number)
        break;
}

In this case you don't need to know in advance whether an output pass is to
be the last one, so it's not necessary to have reached EOF before starting
the final output pass; rather, what you want to test is whether the output
pass was performed in sync with the final input scan. This form of the loop
will avoid an extra output pass whenever the decoder is able (or nearly able)
to keep up with the incoming data.

When the data transmission speed is high, you might begin a display pass,
then find that much or all of the file has arrived before you can complete
the pass. (You can detect this by noting the JPEG_REACHED_EOI return code
from jpeg_consume_input(), or equivalently by testing jpeg_input_complete().)
In this situation you may wish to abort the current display pass and start a
new one using the newly arrived information. To do so, just call
jpeg_finish_output() and then start a new pass with jpeg_start_output().

A variant strategy is to abort and restart display if more than one complete
scan arrives during an output pass; this can be detected by noting
JPEG_REACHED_SOS returns and/or examining cinfo.input_scan_number. This
idea should be employed with caution, however, since the display process
might never get to the bottom of the image before being aborted, resulting
in the lower part of the screen being several passes worse than the upper.
In most cases it's probably best to abort an output pass only if the whole
file has arrived and you want to begin the final output pass immediately.

When receiving data across a communication link, we recommend always using
the current input scan number for the output target scan number; if a
higher-quality final pass is to be done, it should be started (aborting any
incomplete output pass) as soon as the end of file is received. However, many other strategies are possible. For example, the application can examine the parameters of the current input scan and decide whether to display it or not. If the scan contains only chroma data, one might choose not to use it as the target scan, expecting that the scan will be small and will arrive quickly. To skip to the next scan, call jpeg_consume_input() until it returns JPEG_REACHED_SOS or JPEG_REACHED_EOI. Or just use the next higher number as the target scan for jpeg_start_output(); but that method doesn't let you inspect the next scan's parameters before deciding to display it.

In buffered-image mode, jpeg_start_decompress() never performs input and thus never suspends. An application that uses input suspension with buffered-image mode must be prepared for suspension returns from these routines:

* jpeg_start_output() performs input only if you request 2-pass quantization and the target scan isn't fully read yet. (This is discussed below.)
* jpeg_read_scanlines(), as always, returns the number of scanlines that it was able to produce before suspending.
* jpeg_finish_output() will read any markers following the target scan, up to the end of the file or the SOS marker that begins another scan. (But it reads no input if jpeg_consume_input() has already reached the end of the file or a SOS marker beyond the target output scan.)
* jpeg_finish_decompress() will read until the end of file, and thus can suspend if the end hasn't already been reached (as can be tested by calling jpeg_input_complete()).

jpeg_start_output(), jpeg_finish_output(), and jpeg_finish_decompress() all return TRUE if they completed their tasks, FALSE if they had to suspend. In the event of a FALSE return, the application must load more input data and repeat the call. Applications that use non-suspending data sources need not check the return values of these three routines.

It is possible to change decoding parameters between output passes in the buffered-image mode. The decoder library currently supports only very limited changes of parameters. ONLY THE FOLLOWING parameter changes are allowed after jpeg_start_decompress() is called:

* dct_method can be changed before each call to jpeg_start_output().
  For example, one could use a fast DCT method for early scans, changing to a higher quality method for the final scan.
* dither_mode can be changed before each call to jpeg_start_output(); of course this has no impact if not using color quantization. Typically one would use ordered dither for initial passes, then switch to Floyd-Steinberg dither for the final pass. Caution: changing dither mode can cause more memory to be allocated by the library. Although the amount of memory involved is not large (a scanline or so), it may cause the initial max_memory_to_use specification to be exceeded, which in the worst case would result in an out-of-memory failure.
* do_block_smoothing can be changed before each call to jpeg_start_output().
This setting is relevant only when decoding a progressive JPEG image.
During the first DC-only scan, block smoothing provides a very "fuzzy" look
instead of the very "blocky" look seen without it; which is better seems a
matter of personal taste. But block smoothing is nearly always a win
during later stages, especially when decoding a successive-approximation
image: smoothing helps to hide the slight blockiness that otherwise shows
up on smooth gradients until the lowest coefficient bits are sent.
* Color quantization mode can be changed under the rules described below.
You *cannot* change between full-color and quantized output (because that
would alter the required I/O buffer sizes), but you can change which
quantization method is used.

When generating color-quantized output, changing quantization method is a
very useful way of switching between high-speed and high-quality display.
The library allows you to change among its three quantization methods:
1. Single-pass quantization to a fixed color cube.
   Selected by cinfo.two_pass_quantize = FALSE and cinfo.colormap = NULL.
2. Single-pass quantization to an application-supplied colormap.
   Selected by setting cinfo.colormap to point to the colormap (the value of
two_pass_quantize is ignored); also set cinfo.actual_number_of_colors.
3. Two-pass quantization to a colormap chosen specifically for the image.
   Selected by cinfo.two_pass_quantize = TRUE and cinfo.colormap = NULL.
   (This is the default setting selected by jpeg_read_header, but it is
   probably NOT what you want for the first pass of progressive display!)
These methods offer successively better quality and lesser speed. However,
only the first method is available for quantizing in non-RGB color spaces.

IMPORTANT: because the different quantizer methods have very different
working-storage requirements, the library requires you to indicate which
one(s) you intend to use before you call jpeg_start_decompress(). (If we did
not require this, the max_memory_to_use setting would be a complete fiction.)
You do this by setting one or more of these three cinfo fields to TRUE:
enable_1pass_quantFixed color cube colormap
enable_external_quantExterrnally-supplied colormap
enable_2pass_quantTwo-pass custom colormap
All three are initialized FALSE by jpeg_read_header(). But
jpeg_start_decompress() automatically sets TRUE the one selected by the
current two_pass_quantize and colormap settings, so you only need to set the
enable flags for any other quantization methods you plan to change to later.

After setting the enable flags correctly at jpeg_start_decompress() time, you
can change to any enabled quantization method by setting two_pass_quantize
and colormap properly just before calling jpeg_start_output(). The following
special rules apply:
1. You must explicitly set cinfo.colormap to NULL when switching to 1-pass
   or 2-pass mode from a different mode, or when you want the 2-pass
   quantizer to be re-run to generate a new colormap.
2. To switch to an external colormap, or to change to a different external colormap than was used on the prior pass, you must call jpeg_new_colormap() after setting cinfo.colormap.

NOTE: if you want to use the same colormap as was used in the prior pass, you should not do either of these things. This will save some nontrivial switchover costs.

(These requirements exist because cinfo.colormap will always be non-NULL after completing a prior output pass, since both the 1-pass and 2-pass quantizers set it to point to their output colormaps. Thus you have to do one of these two things to notify the library that something has changed. Yup, it's a bit klugy, but it's necessary to do it this way for backwards compatibility.)

Note that in buffered-image mode, the library generates any requested colormap during jpeg_start_output(), not during jpeg_start_decompress().

When using two-pass quantization, jpeg_start_output() makes a pass over the buffered image to determine the optimum color map; it therefore may take a significant amount of time, whereas ordinarily it does little work. The progress monitor hook is called during this pass, if defined. It is also important to realize that if the specified target scan number is greater than or equal to the current input scan number, jpeg_start_output() will attempt to consume input as it makes this pass. If you use a suspending data source, you need to check for a FALSE return from jpeg_start_output() under these conditions. The combination of 2-pass quantization and a not-yet-fully-read target scan is the only case in which jpeg_start_output() will consume input.

Application authors who support buffered-image mode may be tempted to use it for all JPEG images, even single-scan ones. This will work, but it is inefficient: there is no need to create an image-sized coefficient buffer for single-scan images. Requesting buffered-image mode for such an image wastes memory. Worse, it can cost time on large images, since the buffered data has to be swapped out or written to a temporary file. If you are concerned about maximum performance on baseline JPEG files, you should use buffered-image mode only when the incoming file actually has multiple scans. This can be tested by calling jpeg_has_multiple_scans(), which will return a correct result at any time after jpeg_read_header() completes.

It is also worth noting that when you use jpeg_consume_input() to let input processing get ahead of output processing, the resulting pattern of access to the coefficient buffer is quite nonsequential. It's best to use the memory manager jmemnobs.c if you can (ie, if you have enough real or virtual main memory). If not, at least make sure that max_memory_to_use is set as high as possible. If the JPEG memory manager has to use a temporary file, you will probably see a lot of disk traffic and poor performance. (This could be improved with additional work on the memory manager, but we haven't gotten around to it yet.)
In some applications it may be convenient to use jpeg_consume_input() for all input processing, including reading the initial markers; that is, you may wish to call jpeg_consume_input() instead of jpeg_read_header() during startup. This works, but note that you must check for JPEG_REACHED_SOS and JPEG_REACHED_EOI return codes as the equivalent of jpeg_read_header's codes. Once the first SOS marker has been reached, you must call jpeg_start_decompress() before jpeg_consume_input() will consume more input; it'll just keep returning JPEG_REACHED_SOS until you do. If you read a tables-only file this way, jpeg_consume_input() will return JPEG_REACHED_EOI without ever returning JPEG_REACHED_SOS; be sure to check for this case. If this happens, the decompressor will not read any more input until you call jpeg_abort() to reset it. It is OK to call jpeg_consume_input() even when not using buffered-image mode, but in that case it's basically a no-op after the initial markers have been read: it will just return JPEG_SUSPENDED.

Abbreviated datastreams and multiple images
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A JPEG compression or decompression object can be reused to process multiple images. This saves a small amount of time per image by eliminating the "create" and "destroy" operations, but that isn't the real purpose of the feature. Rather, reuse of an object provides support for abbreviated JPEG datastreams. Object reuse can also simplify processing a series of images in a single input or output file. This section explains these features.

A JPEG file normally contains several hundred bytes worth of quantization and Huffman tables. In a situation where many images will be stored or transmitted with identical tables, this may represent an annoying overhead. The JPEG standard therefore permits tables to be omitted. The standard defines three classes of JPEG datastreams:
* "Interchange" datastreams contain an image and all tables needed to decode the image. These are the usual kind of JPEG file.
* "Abbreviated image" datastreams contain an image, but are missing some or all of the tables needed to decode that image.
* "Abbreviated table specification" (henceforth "tables-only") datastreams contain only table specifications.

To decode an abbreviated image, it is necessary to load the missing table(s) into the decoder beforehand. This can be accomplished by reading a separate tables-only file. A variant scheme uses a series of images in which the first image is an interchange (complete) datastream, while subsequent ones are abbreviated and rely on the tables loaded by the first image. It is assumed that once the decoder has read a table, it will remember that table until a new definition for the same table number is encountered.

It is the application designer's responsibility to figure out how to associate the correct tables with an abbreviated image. While abbreviated datastreams
can be useful in a closed environment, their use is strongly discouraged in any situation where data exchange with other applications might be needed. Caveat designer.

The JPEG library provides support for reading and writing any combination of tables-only datastreams and abbreviated images. In both compression and decompression objects, a quantization or Huffman table will be retained for the lifetime of the object, unless it is overwritten by a new table definition.

To create abbreviated image datastreams, it is only necessary to tell the compressor not to emit some or all of the tables it is using. Each quantization and Huffman table struct contains a boolean field "sent_table", which normally is initialized to FALSE. For each table used by the image, the header-writing process emits the table and sets sent_table = TRUE unless it is already TRUE. (In normal usage, this prevents outputting the same table definition multiple times, as would otherwise occur because the chroma components typically share tables.) Thus, setting this field to TRUE before calling jpeg_start_compress() will prevent the table from being written at all.

If you want to create a "pure" abbreviated image file containing no tables, just call "jpeg_suppress_tables(&cinfo, TRUE)" after constructing all the tables. If you want to emit some but not all tables, you'll need to set the individual sent_table fields directly.

To create an abbreviated image, you must also call jpeg_start_compress() with a second parameter of FALSE, not TRUE. Otherwise jpeg_start_compress() will force all the sent_table fields to FALSE. (This is a safety feature to prevent abbreviated images from being created accidentally.)

To create a tables-only file, perform the same parameter setup that you normally would, but instead of calling jpeg_start_compress() and so on, call jpeg_write_tables(&cinfo). This will write an abbreviated datastream containing only SOI, DQT and/or DHT markers, and EOI. All the quantization and Huffman tables that are currently defined in the compression object will be emitted unless their sent_tables flag is already TRUE, and then all the sent_tables flags will be set TRUE.

A sure-fire way to create matching tables-only and abbreviated image files is to proceed as follows:

create JPEG compression object
set JPEG parameters
set destination to tables-only file
jpeg_write_tables(&cinfo);
set destination to image file
jpeg_start_compress(&cinfo, FALSE);
write data...
jpeg_finish_compress(&cinfo);

Since the JPEG parameters are not altered between writing the table file and
the abbreviated image file, the same tables are sure to be used. Of course,
you can repeat the jpeg_start_compress() ... jpeg_finish_compress() sequence
many times to produce many abbreviated image files matching the table file.

You cannot suppress output of the computed Huffman tables when Huffman
optimization is selected. (If you could, there'd be no way to decode the
image...) Generally, you don't want to set optimize_coding = TRUE when
you are trying to produce abbreviated files.

In some cases you might want to compress an image using tables which are
not stored in the application, but are defined in an interchange or
tables-only file readable by the application. This can be done by setting up
a JPEG decompression object to read the specification file, then copying the
tables into your compression object. See jpeg_copy_critical_parameters()
for an example of copying quantization tables.

To read abbreviated image files, you simply need to load the proper tables
into the decompression object before trying to read the abbreviated image.
If the proper tables are stored in the application program, you can just
allocate the table structs and fill in their contents directly. For example,
to load a fixed quantization table into table slot "n":

if (cinfo.quant_tbl_ptrs[n] == NULL)
  cinfo.quant_tbl_ptrs[n] = jpeg_alloc_quant_table((j_common_ptr) &cinfo);
quant_ptr = cinfo.quant_tbl_ptrs[n];/* quant_ptr is JQUANT_TBL* */
for (i = 0; i < 64; i++) {
  /* Qtable[] is desired quantization table, in natural array order */
  quant_ptr->quantval[i] = Qtable[i];
}

Code to load a fixed Huffman table is typically (for AC table "n"):

if (cinfo.ac_huff_tbl_ptrs[n] == NULL)
  cinfo.ac_huff_tbl_ptrs[n] = jpeg_alloc_huff_table((j_common_ptr) &cinfo);
huff_ptr = cinfo.ac_huff_tbl_ptrs[n];/* huff_ptr is JHUFF_TBL* */
for (i = 1; i <= 16; i++) {
  /* counts[i] is number of Huffman codes of length i bits, i=1..16 */
  huff_ptr->bits[i] = counts[i];
}
for (i = 0; i < 256; i++) {
  /* symbols[] is the list of Huffman symbols, in code-length order */
  huff_ptr->huffval[i] = symbols[i];
}
(Note that trying to set cinfo.quant_tbl_ptrs[n] to point directly at a constant JQUANT_TBL object is not safe. If the incoming file happened to contain a quantization table definition, your master table would get overwritten! Instead allocate a working table copy and copy the master table into it, as illustrated above. Ditto for Huffman tables, of course.)

You might want to read the tables from a tables-only file, rather than hard-wiring them into your application. The jpeg_read_header() call is sufficient to read a tables-only file. You must pass a second parameter of FALSE to indicate that you do not require an image to be present. Thus, the typical scenario is

create JPEG decompression object
set source to tables-only file
jpeg_read_header(&cinfo, FALSE);
set source to abbreviated image file
jpeg_read_header(&cinfo, TRUE);
set decompression parameters
jpeg_start_decompress(&cinfo);
read data...
jpeg_finish_decompress(&cinfo);

In some cases, you may want to read a file without knowing whether it contains an image or just tables. In that case, pass FALSE and check the return value from jpeg_read_header(): it will be JPEG_HEADER_OK if an image was found, JPEG_HEADER_TABLES_ONLY if only tables were found. (A third return value, JPEG_SUSPENDED, is possible when using a suspending data source manager.) Note that jpeg_read_header() will not complain if you read an abbreviated image for which you haven't loaded the missing tables; the missing-table check occurs later, in jpeg_start_decompress().

It is possible to read a series of images from a single source file by repeating the jpeg_read_header() ... jpeg_finish_decompress() sequence, without releasing/recreating the JPEG object or the data source module. (If you did reinitialize, any partial bufferload left in the data source buffer at the end of one image would be discarded, causing you to lose the start of the next image.) When you use this method, stored tables are automatically carried forward, so some of the images can be abbreviated images that depend on tables from earlier images.

If you intend to write a series of images into a single destination file, you might want to make a specialized data destination module that doesn’t flush the output buffer at term_destination() time. This would speed things up by some trifling amount. Of course, you’d need to remember to flush the buffer after the last image. You can make the later images be abbreviated ones by passing FALSE to jpeg_start_compress().
Special markers
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Some applications may need to insert or extract special data in the JPEG datastream. The JPEG standard provides marker types "COM" (comment) and "APP0" through "APP15" (application) to hold application-specific data. Unfortunately, the use of these markers is not specified by the standard. COM markers are fairly widely used to hold user-supplied text. The JFIF file format spec uses APP0 markers with specified initial strings to hold certain data. Adobe applications use APP14 markers beginning with the string "Adobe" for miscellaneous data. Other APPn markers are rarely seen, but might contain almost anything.

If you wish to store user-supplied text, we recommend you use COM markers and place readable 7-bit ASCII text in them. Newline conventions are not standardized --- expect to find LF (Unix style), CR/LF (DOS style), or CR (Mac style). A robust COM reader should be able to cope with random binary garbage, including nulls, since some applications generate COM markers containing non-ASCII junk. (But yours should not be one of them.)

For program-supplied data, use an APPn marker, and be sure to begin it with an identifying string so that you can tell whether the marker is actually yours. It's probably best to avoid using APP0 or APP14 for any private markers.

(NOTE: the upcoming SPIFF standard will use APP8 markers; we recommend you not use APP8 markers for any private purposes, either.)

Keep in mind that at most 65533 bytes can be put into one marker, but you can have as many markers as you like.

By default, the IJG compression library will write a JFIF APP0 marker if the selected JPEG colorspace is grayscale or YCbCr, or an Adobe APP14 marker if the selected colorspace is RGB, CMYK, or YCCK. You can disable this, but we don't recommend it. The decompression library will recognize JFIF and Adobe markers and will set the JPEG colorspace properly when one is found.

You can write special markers immediately following the datastream header by calling jpeg_write_marker() after jpeg_start_compress() and before the first call to jpeg_write_scanlines(). When you do this, the markers appear after the SOI and the JFIF APP0 and Adobe APP14 markers (if written), but before all else. Specify the marker type parameter as "JPEG_COM" for COM or "JPEG_APP0 + n" for APPn. (Actually, jpeg_write_marker will let you write any marker type, but we don't recommend writing any other kinds of marker.) For example, to write a user comment string pointed to by comment_text:

jpeg_write_marker(cinfo, JPEG_COM, comment_text, strlen(comment_text));
If it's not convenient to store all the marker data in memory at once, you can instead call jpeg_write_m_header() followed by multiple calls to jpeg_write_m_byte(). If you do it this way, it's your responsibility to call jpeg_write_m_byte() exactly the number of times given in the length parameter to jpeg_write_m_header(). (This method lets you empty the output buffer partway through a marker, which might be important when using a suspending data destination module. In any case, if you are using a suspending destination, you should flush its buffer after inserting any special markers. See "I/O suspension").

Or, if you prefer to synthesize the marker byte sequence yourself, you can just cram it straight into the data destination module.

If you are writing JFIF 1.02 extension markers (thumbnail images), don't forget to set cinfo.JFIF_minor_version = 2 so that the encoder will write the correct JFIF version number in the JFIF header marker. The library's default is to write version 1.01, but that's wrong if you insert any 1.02 extension markers. (We could probably get away with just defaulting to 1.02, but there used to be broken decoders that would complain about unknown minor version numbers. To reduce compatibility risks it's safest not to write 1.02 unless you are actually using 1.02 extensions.)

When reading, two methods of handling special markers are available:
1. You can ask the library to save the contents of COM and/or APPn markers into memory, and then examine them at your leisure afterwards.
2. You can supply your own routine to process COM and/or APPn markers on-the-fly as they are read.

The first method is simpler to use, especially if you are using a suspending data source; writing a marker processor that copes with input suspension is not easy (consider what happens if the marker is longer than your available input buffer). However, the second method conserves memory since the marker data need not be kept around after it's been processed.

For either method, you'd normally set up marker handling after creating a decompression object and before calling jpeg_read_header(), because the markers of interest will typically be near the head of the file and so will be scanned by jpeg_read_header. Once you've established a marker handling method, it will be used for the life of that decompression object (potentially many datastreams), unless you change it. Marker handling is determined separately for COM markers and for each APPn marker code.

To save the contents of special markers in memory, call 
jpeg_save_markers(cinfo, marker_code, length_limit) 
where marker_code is the marker type to save, JPEG_COM or JPEG_APP0+n. 
(To arrange to save all the special marker types, you need to call this routine 17 times, for COM and APP0-APP15.) If the incoming marker is longer
than length_limit data bytes, only length_limit bytes will be saved; this parameter allows you to avoid chewing up memory when you only need to see the first few bytes of a potentially large marker. If you want to save all the data, set length_limit to 0xFFFF; that is enough since marker lengths are only 16 bits. As a special case, setting length_limit to 0 prevents that marker type from being saved at all. (That is the default behavior, in fact.)

After jpeg_read_header() completes, you can examine the special markers by following the cinfo->marker_list pointer chain. All the special markers in the file appear in this list, in order of their occurrence in the file (but omitting any markers of types you didn't ask for). Both the original data length and the saved data length are recorded for each list entry; the latter will not exceed length_limit for the particular marker type. Note that these lengths exclude the marker length word, whereas the stored representation within the JPEG file includes it. (Hence the maximum data length is really only 65533.)

It is possible that additional special markers appear in the file beyond the SOS marker at which jpeg_read_header stops; if so, the marker list will be extended during reading of the rest of the file. This is not expected to be common, however. If you are short on memory you may want to reset the length limit to zero for all marker types after finishing jpeg_read_header, to ensure that the max_memory_to_use setting cannot be exceeded due to addition of later markers.

The marker list remains stored until you call jpeg_finish_decompress or jpeg_abort, at which point the memory is freed and the list is set to empty. (jpeg_destroy also releases the storage, of course.)

Note that the library is internally interested in APP0 and APP14 markers; if you try to set a small nonzero length limit on these types, the library will silently force the length up to the minimum it wants. (But you can set a zero length limit to prevent them from being saved at all.) Also, in a 16-bit environment, the maximum length limit may be constrained to less than 65533 by malloc() limitations. It is therefore best not to assume that the effective length limit is exactly what you set it to be.

If you want to supply your own marker-reading routine, you do it by calling jpeg_set_marker_processor(). A marker processor routine must have the signature:

boolean jpeg_marker_parser_method(j_decompress_ptr cinfo)

Although the marker code is not explicitly passed, the routine can find it in cinfo->unread_marker. At the time of call, the marker proper has been read from the data source module. The processor routine is responsible for reading the marker length word and the remaining parameter bytes, if any. Return TRUE to indicate success. (FALSE should be returned only if you are using a suspending data source and it tells you to suspend. See the standard
marker processors in jdmarker.c for appropriate coding methods if you need to use a suspending data source.)

If you override the default APP0 or APP14 processors, it is up to you to recognize JFIF and Adobe markers if you want colorspace recognition to occur properly. We recommend copying and extending the default processors if you want to do that. (A better idea is to save these marker types for later examination by calling jpeg_save_markers(); that method doesn't interfere with the library's own processing of these markers.)

jpeg_set_marker_processor() and jpeg_save_markers() are mutually exclusive --- if you call one it overrides any previous call to the other, for the particular marker type specified.

A simple example of an external COM processor can be found in djpeg.c. Also, see jpegtran.c for an example of using jpeg_save_markers.

Raw (downsampled) image data
----------------------------

Some applications need to supply already-downsampled image data to the JPEG compressor, or to receive raw downsampled data from the decompressor. The library supports this requirement by allowing the application to write or read raw data, bypassing the normal preprocessing or postprocessing steps. The interface is different from the standard one and is somewhat harder to use. If your interest is merely in bypassing color conversion, we recommend that you use the standard interface and simply set jpeg_color_space = in_color_space (or jpeg_color_space = out_color_space for decompression). The mechanism described in this section is necessary only to supply or receive downsampled image data, in which not all components have the same dimensions.

To compress raw data, you must supply the data in the colorspace to be used in the JPEG file (please read the earlier section on Special color spaces) and downsampled to the sampling factors specified in the JPEG parameters. You must supply the data in the format used internally by the JPEG library, namely a JSAMPIMAGE array. This is an array of pointers to two-dimensional arrays, each of type JSAMPARRAY. Each 2-D array holds the values for one color component. This structure is necessary since the components are of different sizes. If the image dimensions are not a multiple of the MCU size, you must also pad the data correctly (usually, this is done by replicating the last column and/or row). The data must be padded to a multiple of a DCT block in each component: that is, each downsampled row must contain a multiple of 8 valid samples, and there must be a multiple of 8 sample rows for each component. (For applications such as conversion of digital TV images, the standard image size is usually a multiple of the DCT block size,
The procedure for compression of raw data is basically the same as normal 
compression, except that you call jpeg_write_raw_data() in place of 
jpeg_write_scanlines(). Before calling jpeg_start_compress(), you must do 
the following:

* Set cinfo->raw_data_in to TRUE. (It is set FALSE by jpeg_set_defaults().) 
  This notifies the library that you will be supplying raw data. 
  Furthermore, set cinfo->do_fancy_downsampling to FALSE if you want to use 
  real downsampled data. (It is set TRUE by jpeg_set_defaults().) 
* Ensure jpeg_color_space is correct --- an explicit jpeg_set_colorspace() 
  call is a good idea. Note that since color conversion is bypassed, 
  in_color_space is ignored, except that jpeg_set_defaults() uses it to 
  choose the default jpeg_color_space setting. 
* Ensure the sampling factors, cinfo->comp_info[i].h_samp_factor and 
  cinfo->comp_info[i].v_samp_factor, are correct. Since these indicate the 
  dimensions of the data you are supplying, it's wise to set them 
  explicitly, rather than assuming the library's defaults are what you want. 

To pass raw data to the library, call jpeg_write_raw_data() in place of 
jpeg_write_scanlines(). The two routines work similarly except that 
jpeg_write_raw_data takes a JSAMPIMAGE data array rather than JSAMPARRAY. 
The scanlines count passed to and returned from jpeg_write_raw_data is 
measured in terms of the component with the largest v_samp_factor. 

jpeg_write_raw_data() processes one MCU row per call, which is to say 
v_samp_factor*DCTSIZE sample rows of each component. The passed num_lines 
value must be at least max_v_samp_factor*DCTSIZE, and the return value will 
be exactly that amount (or possibly some multiple of that amount, in future 
library versions). This is true even on the last call at the bottom of the 
image; don't forget to pad your data as necessary. 

The required dimensions of the supplied data can be computed for each 
component as 
cinfo->comp_info[i].width_in_blocks*DCTSIZE samples per row 
cinfo->comp_info[i].height_in_blocks*DCTSIZE rows in image 
after jpeg_start_compress() has initialized those fields. If the valid data 
is smaller than this, it must be padded appropriately. For some sampling 
factors and image sizes, additional dummy DCT blocks are inserted to make 
the image a multiple of the MCU dimensions. The library creates such dummy 
blocks itself; it does not read them from your supplied data. Therefore you 
need never pad by more than DCTSIZE samples. An example may help here. 
Assume 2h2v downsampling of YCbCr data, that is 
cinfo->comp_info[0].h_samp_factor = 2 for Y 
cinfo->comp_info[0].v_samp_factor = 2 
cinfo->comp_info[1].h_samp_factor = 1 for Cb 
cinfo->comp_info[1].v_samp_factor = 1 
cinfo->comp_info[2].h_samp_factor = 1 for Cr
and suppose that the nominal image dimensions (cinfo->image_width and
cinfo->image_height) are 101x101 pixels. Then jpeg_start_compress() will
compute downsampld_width = 101 and width_in_blocks = 13 for Y,
downsampld_width = 51 and width_in_blocks = 7 for Cb and Cr (and the same
for the height fields). You must pad the Y data to at least 13*8 = 104
columns and rows, the Cb/Cr data to at least 7*8 = 56 columns and rows. The
MCU height is max_v_samp_factor = 2 DCT rows so you must pass at least 16
scanlines on each call to jpeg_write_raw_data(), which is to say 16 actual
sample rows of Y and 8 each of Cb and Cr. A total of 7 MCU rows are needed,
so you must pass a total of 7*16 = 112 “scanlines”. The last DCT block row
of Y data is dummy, so it doesn’t matter what you pass for it in the data
arrays, but the scanlines count must total up to 112 so that all of the Cb
and Cr data gets passed.

Output suspension is supported with raw-data compression: if the data
destination module suspends, jpeg_write_raw_data() will return 0.
In this case the same data rows must be passed again on the next call.

Decompression with raw data output implies bypassing all postprocessing.
You must deal with the color space and sampling factors present in the
incoming file. If your application only handles, say, 2h1v YCbCr data,
you must check for and fail on other color spaces or other sampling factors.
The library will not convert to a different color space for you.

To obtain raw data output, set cinfo->raw_data_out = TRUE before
jpeg_start_decompress() (it is set FALSE by jpeg_read_header()). Be sure to
verify that the color space and sampling factors are ones you can handle.
Furthermore, set cinfo->do_fancy_upsampling = FALSE if you want to get real
downsampled data (it is set TRUE by jpeg_read_header()).
Then call jpeg_read_raw_data() in place of jpeg_read_scanlines(). The
decompression process is otherwise the same as usual.

jpeg_read_raw_data() returns one MCU row per call, and thus you must pass a
buffer of at least max_v_samp_factor*DCTSIZE scanlines (scanline counting is
the same as for raw-data compression). The buffer you pass must be large
enough to hold the actual data plus padding to DCT-block boundaries. As with
compression, any entirely dummy DCT blocks are not processed so you need not
allocate space for them, but the total scanline count includes them. The
above example of computing buffer dimensions for raw-data compression is
equally valid for decompression.

Input suspension is supported with raw-data decompression: if the data source
module suspends, jpeg_read_raw_data() will return 0. You can also use
buffered-image mode to read raw data in multiple passes.
Really raw data: DCT coefficients
---------------------------------

It is possible to read or write the contents of a JPEG file as raw DCT coefficients. This facility is mainly intended for use in lossless transcoding between different JPEG file formats. Other possible applications include lossless cropping of a JPEG image, lossless reassembly of a multi-strip or multi-tile TIFF/JPEG file into a single JPEG datastream, etc.

To read the contents of a JPEG file as DCT coefficients, open the file and do jpeg_read_header() as usual. But instead of calling jpeg_start_decompress() and jpeg_read_scanlines(), call jpeg_read_coefficients(). This will read the entire image into a set of virtual coefficient-block arrays, one array per component. The return value is a pointer to an array of virtual-array descriptors. Each virtual array can be accessed directly using the JPEG memory manager's access_virt_barray method (see Memory management, below, and also read structure.txt's discussion of virtual array handling). Or, for simple transcoding to a different JPEG file format, the array list can just be handed directly to jpeg_write_coefficients().

Each block in the block arrays contains quantized coefficient values in normal array order (not JPEG zigzag order). The block arrays contain only DCT blocks containing real data; any entirely-dummy blocks added to fill out interleaved MCUs at the right or bottom edges of the image are discarded during reading and are not stored in the block arrays. (The size of each block array can be determined from the width_in_blocks and height_in_blocks fields of the component's comp_info entry.) This is also the data format expected by jpeg_write_coefficients().

When you are done using the virtual arrays, call jpeg_finish_decompress() to release the array storage and return the decompression object to an idle state; or just call jpeg_destroy() if you don't need to reuse the object.

If you use a suspending data source, jpeg_read_coefficients() will return NULL if it is forced to suspend; a non-NULL return value indicates successful completion. You need not test for a NULL return value when using a non-suspending data source.

It is also possible to call jpeg_read_coefficients() to obtain access to the decoder's coefficient arrays during a normal decode cycle in buffered-image mode. This frammish might be useful for progressively displaying an incoming image and then re-encoding it without loss. To do this, decode in buffered-image mode as discussed previously, then call jpeg_read_coefficients() after the last jpeg_finish_output() call. The arrays will be available for your use until you call jpeg_finish_decompress().

To write the contents of a JPEG file as DCT coefficients, you must provide
the DCT coefficients stored in virtual block arrays. You can either pass
block arrays read from an input JPEG file by jpeg_read_coefficients(), or
allocate virtual arrays from the JPEG compression object and fill them
yourself. In either case, jpeg_write_coefficients() is substituted for
jpeg_start_compress() and jpeg_write_scanlines(). Thus the sequence is
* Create compression object
* Set all compression parameters as necessary
* Request virtual arrays if needed
* jpeg_write_coefficients()
* jpeg_finish_compress()
* Destroy or re-use compression object
jpeg_write_coefficients() is passed a pointer to an array of virtual block
array descriptors; the number of arrays is equal to cinfo.num_components.

The virtual arrays need only have been requested, not realized, before
jpeg_write_coefficients() is called. A side-effect of
jpeg_write_coefficients() is to realize any virtual arrays that have been
requested from the compression object's memory manager. Thus, when obtaining
the virtual arrays from the compression object, you should fill the arrays
after calling jpeg_write_coefficients(). The data is actually written out
when you call jpeg_finish_compress(); jpeg_write_coefficients() only writes
the file header.

When writing raw DCT coefficients, it is crucial that the JPEG quantization
tables and sampling factors match the way the data was encoded, or the
resulting file will be invalid. For transcoding from an existing JPEG file,
we recommend using jpeg_copy_critical_parameters(). This routine initializes
all the compression parameters to default values (like jpeg_set_defaults()),
then copies the critical information from a source decompression object.
The decompression object should have just been used to read the entire
JPEG input file --- that is, it should be awaiting jpeg_finish_decompress().

jpeg_write_coefficients() marks all tables stored in the compression object
as needing to be written to the output file (thus, it acts like
jpeg_start_compress(cinfo, TRUE)). This is for safety’s sake, to avoid
emitting abbreviated JPEG files by accident. If you really want to emit an
abbreviated JPEG file, call jpeg_suppress_tables(), or set the tables’
individual sent_table flags, between calling jpeg_write_coefficients() and
jpeg_finish_compress().

Progress monitoring
---------------------

Some applications may need to regain control from the JPEG library every so
often. The typical use of this feature is to produce a percent-done bar or
other progress display. (For a simple example, see cjjpeg.c or djpeg.c.)
Although you do get control back frequently during the data-transferring pass
(the jpeg_read_scanlines or jpeg_write_scanlines loop), any additional passes
will occur inside jpeg_finish_compress or jpeg_start_decompress; those
routines may take a long time to execute, and you don't get control back
until they are done.

You can define a progress-monitor routine which will be called periodically
by the library. No guarantees are made about how often this call will occur,
so we don't recommend you use it for mouse tracking or anything like that.
At present, a call will occur once per MCU row, scanline, or sample row
group, whichever unit is convenient for the current processing mode; so the
wider the image, the longer the time between calls. During the data
transferring pass, only one call occurs per call of jpeg_read_scanlines or
jpeg_write_scanlines, so don't pass a large number of scanlines at once if
you want fine resolution in the progress count. (If you really need to use
the callback mechanism for time-critical tasks like mouse tracking, you could
insert additional calls inside some of the library's inner loops.)

To establish a progress-monitor callback, create a struct jpeg_progress_mgr,
fill in its progress_monitor field with a pointer to your callback routine,
and set cinfo->progress to point to the struct. The callback will be called
whenever cinfo->progress is non-NULL. (This pointer is set to NULL by
jpeg_create_compress or jpeg_create_decompress; the library will not change
it thereafter. So if you allocate dynamic storage for the progress struct,
make sure it will live as long as the JPEG object does. Allocating from the
JPEG memory manager with lifetime JPOOL_PERMANENT will work nicely.) You
can use the same callback routine for both compression and decompression.

The jpeg_progress_mgr struct contains four fields which are set by the library:
long pass_counter;/* work units completed in this pass */
long pass_limit;/* total number of work units in this pass */
int completed_passes;/* passes completed so far */
int total_passes;/* total number of passes expected */

During any one pass, pass_counter increases from 0 up to (not including)
pass_limit; the step size is usually but not necessarily 1. The pass_limit
value may change from one pass to another. The expected total number of
passes is in total_passes, and the number of passes already completed is in
completed_passes. Thus the fraction of work completed may be estimated as
completed_passes + (pass_counter/pass_limit)

--------------------------------------------
total_passes

ignoring the fact that the passes may not be equal amounts of work.

When decompressing, pass_limit can even change within a pass, because it
depends on the number of scans in the JPEG file, which isn't always known in
advance. The computed fraction-of-work-done may jump suddenly (if the library
discovers it has overestimated the number of scans) or even decrease (in the
opposite case). It is not wise to put great faith in the work estimate.
When using the decompressor's buffered-image mode, the progress monitor work estimate is likely to be completely unhelpful, because the library has no way to know how many output passes will be demanded of it. Currently, the library sets total_passes based on the assumption that there will be one more output pass if the input file end hasn't yet been read (jpeg_input_complete() isn't TRUE), but no more output passes if the file end has been reached when the output pass is started. This means that total_passes will rise as additional output passes are requested. If you have a way of determining the input file size, estimating progress based on the fraction of the file that's been read will probably be more useful than using the library's value.

Memory management

------------------

This section covers some key facts about the JPEG library's built-in memory manager. For more info, please read structure.txt's section about the memory manager, and consult the source code if necessary.

All memory and temporary file allocation within the library is done via the memory manager. If necessary, you can replace the "back end" of the memory manager to control allocation yourself (for example, if you don't want the library to use malloc() and free() for some reason).

Some data is allocated "permanently" and will not be freed until the JPEG object is destroyed. Most data is allocated "per image" and is freed by jpeg_finish_compress, jpeg_finish_decompress, or jpeg_abort. You can call the memory manager yourself to allocate structures that will automatically be freed at these times. Typical code for this is

```c
ptr = (*cinfo->mem->alloc_small) ((j_common_ptr) cinfo, JPOOL_IMAGE, size);
```

Use JPOOL_PERMANENT to get storage that lasts as long as the JPEG object. Use alloc_large instead of alloc_small for anything bigger than a few Kbytes. There are also alloc_sarray and alloc_barray routines that automatically build 2-D sample or block arrays.

The library's minimum space requirements to process an image depend on the image's width, but not on its height, because the library ordinarily works with "strip" buffers that are as wide as the image but just a few rows high. Some operating modes (eg, two-pass color quantization) require full-image buffers. Such buffers are treated as "virtual arrays"; only the current strip need be in memory, and the rest can be swapped out to a temporary file.

If you use the simplest memory manager back end (jmemnobs.c), then no temporary files are used; virtual arrays are simply malloc()'d. Images bigger than memory can be processed only if your system supports virtual memory. The other memory manager back ends support temporary files of various flavors and thus work in machines without virtual memory. They may also be useful on Unix machines if you need to process images that exceed available swap space.
When using temporary files, the library will make the in-memory buffers for its virtual arrays just big enough to stay within a "maximum memory" setting. Your application can set this limit by setting cinfo->mem->max_memory_to_use after creating the JPEG object. (Of course, there is still a minimum size for the buffers, so the max-memory setting is effective only if it is bigger than the minimum space needed.) If you allocate any large structures yourself, you must allocate them before jpeg_start_compress() or jpeg_start_decompress() in order to have them counted against the max memory limit. Also keep in mind that space allocated with alloc_small() is ignored, on the assumption that it's too small to be worth worrying about; so a reasonable safety margin should be left when setting max_memory_to_use.

If you use the jmemname.c or jmemdos.c memory manager back end, it is important to clean up the JPEG object properly to ensure that the temporary files get deleted. (This is especially crucial with jmemdos.c, where the "temporary files" may be extended-memory segments; if they are not freed, DOS will require a reboot to recover the memory.) Thus, with these memory managers, it's a good idea to provide a signal handler that will trap any early exit from your program. The handler should call either jpeg_abort() or jpeg_destroy() for any active JPEG objects. A handler is not needed with jmemnobs.c, and shouldn't be necessary with jmemansi.c or jmemmac.c either, since the C library is supposed to take care of deleting files made with tmpfile().

Memory usage
-------------

Working memory requirements while performing compression or decompression depend on image dimensions, image characteristics (such as colorspace and JPEG process), and operating mode (application-selected options).

As of v6b, the decompressor requires:
1. About 24K in more-or-less-fixed-size data. This varies a bit depending on operating mode and image characteristics (particularly color vs. grayscale), but it doesn't depend on image dimensions.
2. Strip buffers (of size proportional to the image width) for IDCT and upsampling results. The worst case for commonly used sampling factors is about 34 bytes * width in pixels for a color image. A grayscale image only needs about 8 bytes per pixel column.
3. A full-image DCT coefficient buffer is needed to decode a multi-scan JPEG file (including progressive JPEGs), or whenever you select buffered-image mode. This takes 2 bytes/coefficient. At typical 2x2 sampling, that's 3 bytes per pixel for a color image. Worst case (1x1 sampling) requires 6 bytes/pixel. For grayscale, figure 2 bytes/pixel.
4. To perform 2-pass color quantization, the decompressor also needs a 128K color lookup table and a full-image pixel buffer (3 bytes/pixel).
This does not count any memory allocated by the application, such as a buffer to hold the final output image.

The above figures are valid for 8-bit JPEG data precision and a machine with 32-bit ints. For 12-bit JPEG data, double the size of the strip buffers and quantization pixel buffer. The "fixed-size" data will be somewhat smaller with 16-bit ints, larger with 64-bit ints. Also, CMYK or other unusual color spaces will require different amounts of space.

The full-image coefficient and pixel buffers, if needed at all, do not have to be fully RAM resident; you can have the library use temporary files instead when the total memory usage would exceed a limit you set. (But if your OS supports virtual memory, it's probably better to just use jmemnobs and let the OS do the swapping.)

The compressor's memory requirements are similar, except that it has no need for color quantization. Also, it needs a full-image DCT coefficient buffer if Huffman-table optimization is asked for, even if progressive mode is not requested.

If you need more detailed information about memory usage in a particular situation, you can enable the MEM_STATS code in jmemmgr.c.

Library compile-time options
---------------------------

A number of compile-time options are available by modifying jmorecfg.h.

The JPEG standard provides for both the baseline 8-bit DCT process and a 12-bit DCT process. The IJG code supports 12-bit lossy JPEG if you define BITS_IN_JSAMPLE as 12 rather than 8. Note that this causes JSAMPLE to be larger than a char, so it affects the surrounding application's image data. The sample applications cjpeg and djpeg can support 12-bit mode only for PPM and GIF file formats; you must disable the other file formats to compile a 12-bit cjpeg or djpeg. (install.txt has more information about that.) At present, a 12-bit library can handle *only* 12-bit images, not both precisions. (If you need to include both 8- and 12-bit libraries in a single application, you could probably do it by defining NEED_SHORT_EXTERNAL_NAMES for just one of the copies. You'd have to access the 8-bit and 12-bit copies from separate application source files. This is untested ... if you try it, we'd like to hear whether it works!)

Note that a 12-bit library always compresses in Huffman optimization mode, in order to generate valid Huffman tables. This is necessary because our default Huffman tables only cover 8-bit data. If you need to output 12-bit files in one pass, you'll have to supply suitable default Huffman tables. You may also want to supply your own DCT quantization tables; the existing
quality-scaling code has been developed for 8-bit use, and probably doesn't generate especially good tables for 12-bit.

The maximum number of components (color channels) in the image is determined by MAX_COMPONENTS. The JPEG standard allows up to 255 components, but we expect that few applications will need more than four or so.

On machines with unusual data type sizes, you may be able to improve performance or reduce memory space by tweaking the various typedefs in jmorecfg.h. In particular, on some RISC CPUs, access to arrays of "short"s is quite slow; consider trading memory for speed by making JCOEF, INT16, and UINT16 be "int" or "unsigned int". UINT8 is also a candidate to become int. You probably don't want to make JSAMPLE be int unless you have lots of memory to burn.

You can reduce the size of the library by compiling out various optional functions. To do this, undefine xxx_SUPPORTED symbols as necessary.

You can also save a few K by not having text error messages in the library; the standard error message table occupies about 5Kb. This is particularly reasonable for embedded applications where there's no good way to display a message anyway. To do this, remove the creation of the message table (jpeg_std_message_table[]) from jerror.c, and alter format_message to do something reasonable without it. You could output the numeric value of the message code number, for example. If you do this, you can also save a couple more K by modifying the TRACEMSn() macros in jerror.h to expand to nothing; you don't need trace capability anyway, right?

Portability considerations
--------------------------

The JPEG library has been written to be extremely portable; the sample applications cjpeg and djpeg are slightly less so. This section summarizes the design goals in this area. (If you encounter any bugs that cause the library to be less portable than is claimed here, we'd appreciate hearing about them.)

The code works fine on ANSI C, C++, and pre-ANSI C compilers, using any of the popular system include file setups, and some not-so-popular ones too. See install.txt for configuration procedures.

The code is not dependent on the exact sizes of the C data types. As distributed, we make the assumptions that
charis at least 8 bits wide
shortis at least 16 bits wide
intis at least 16 bits wide
longis at least 32 bits wide
(These are the minimum requirements of the ANSI C standard.) Wider types will
work fine, although memory may be used inefficiently if char is much larger
than 8 bits or short is much bigger than 16 bits. The code should work
equally well with 16- or 32-bit ints.

In a system where these assumptions are not met, you may be able to make the
code work by modifying the typedefs in jmorecfg.h. However, you will probably
have difficulty if int is less than 16 bits wide, since references to plain
int abound in the code.

char can be either signed or unsigned, although the code runs faster if an
unsigned char type is available. If char is wider than 8 bits, you will need
to redefine JOCTET and/or provide custom data source/destination managers so
that JOCTET represents exactly 8 bits of data on external storage.

The JPEG library proper does not assume ASCII representation of characters.
But some of the image file I/O modules in cjpeg/djpeg do have ASCII
dependencies in file-header manipulation; so does cjpeg's select_file_type()
routine.

The JPEG library does not rely heavily on the C library. In particular, C
stdio is used only by the data source/destination modules and the error
handler, all of which are application-replaceable. (cjpeg/djpeg are more
heavily dependent on stdio.) malloc and free are called only from the memory
manager "back end" module, so you can use a different memory allocator by
replacing that one file.

The code generally assumes that C names must be unique in the first 15
characters. However, global function names can be made unique in the
first 6 characters by defining NEED_SHORT_EXTERNAL_NAMES.

More info about porting the code may be gleaned by reading jconfig.txt,
jmorecfg.h, and jinclude.h.

Notes for MS-DOS implementors
-----------------------------

The IJG code is designed to work efficiently in 80x86 "small" or "medium"
memory models (i.e., data pointers are 16 bits unless explicitly declared
"far"; code pointers can be either size). You may be able to use small
model to compile cjpeg or djpeg by itself, but you will probably have to use
medium model for any larger application. This won't make much difference in
performance. You *will* take a noticeable performance hit if you use a
large-data memory model (perhaps 10%-25%), and you should avoid "huge" model
if at all possible.

The JPEG library typically needs 2Kb-3Kb of stack space. It will also
malloc about 20K-30K of near heap space while executing (and lots of far heap, but that doesn't count in this calculation). This figure will vary depending on selected operating mode, and to a lesser extent on image size. There is also about 5Kb-6Kb of constant data which will be allocated in the near data segment (about 4Kb of this is the error message table). Thus you have perhaps 20K available for other modules' static data and near heap space before you need to go to a larger memory model. The C library's static data will account for several K of this, but that still leaves a good deal for your needs. (If you are tight on space, you could reduce the sizes of the I/O buffers allocated by jdatasc.c and jdatadst.c, say from 4K to 1K. Another possibility is to move the error message table to far memory; this should be doable with only localized hacking on jerror.c.)

About 2K of the near heap space is "permanent" memory that will not be released until you destroy the JPEG object. This is only an issue if you save a JPEG object between compression or decompression operations.

Far data space may also be a tight resource when you are dealing with large images. The most memory-intensive case is decompression with two-pass color quantization, or single-pass quantization to an externally supplied color map. This requires a 128Kb color lookup table plus strip buffers amounting to about 40 bytes per column for typical sampling ratios (eg, about 25600 bytes for a 640-pixel-wide image). You may not be able to process wide images if you have large data structures of your own.

Of course, all of these concerns vanish if you use a 32-bit flat-memory-model compiler, such as DJGPP or Watcom C. We highly recommend flat model if you can use it; the JPEG library is significantly faster in flat model.

*/
* ckconfig.c
*
* Copyright (C) 1991-1994, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*/

/*

*/
* jccoefct.c
*
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* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains the coefficient buffer controller for compression.
* This controller is the top level of the JPEG compressor proper.
* The coefficient buffer lies between forward-DCT and entropy encoding steps.
*/

Found in path(s):
* /opt/cola/permits/161014486_1646171445.16/0/jpeg-8c-zip/jpeg-8c/jccoefct.c
No license file was found, but licenses were detected in source scan.

/ *
* jcarith.c
*
* Developed 1997-2009 by Guido Vollbeding.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains portable arithmetic entropy encoding routines for JPEG
*
* Both sequential and progressive modes are supported in this single module.
*
* Suspension is not currently supported in this module.
*/

Found in path(s):
* /opt/cola/permits/161014486_1646171445.16/0/jpeg-8c-zip/jpeg-8c/jcarith.c
No license file was found, but licenses were detected in source scan.

/ *
* jcomapi.c
*
* Copyright (C) 1994-1997, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains application interface routines that are used for both
* compression and decompression.
*/

Found in path(s):
* /opt/cola/permits/161014486_1646171445.16/0/jpeg-8c-zip/jpeg-8c/jcomapi.c
No license file was found, but licenses were detected in source scan.

/*
* jfdctint.c
* Copyright (C) 1991-1996, Thomas G. Lane.
* Modification developed 2003-2009 by Guido Vollbeding.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
* This file contains a slow-but-accurate integer implementation of the
* forward DCT (Discrete Cosine Transform).
* A 2-D DCT can be done by 1-D DCT on each row followed by 1-D DCT
* on each column. Direct algorithms are also available, but they are
* much more complex and seem not to be any faster when reduced to code.
* This implementation is based on an algorithm described in
* C. Loeffler, A. Ligtenberg and G. Moschytz, "Practical Fast 1-D DCT
* Algorithms with 11 Multiplications", Proc. Int'l. Conf. on Acoustics,
* The primary algorithm described there uses 11 multiplies and 29 adds.
* We use their alternate method with 12 multiplies and 32 adds.
* The advantage of this method is that no data path contains more than one
* multiplication; this allows a very simple and accurate implementation in
* scaled fixed-point arithmetic, with a minimal number of shifts.
* We also provide FDCT routines with various input sample block sizes for
* direct resolution reduction or enlargement and for direct resolving the
* common 2x1 and 1x2 subsampling cases without additional resampling: NxN
* (N=1...16), 2NxN, and Nx2N (N=1...8) pixels for one 8x8 output DCT block.
* For N<8 we fill the remaining block coefficients with zero.
* For N>8 we apply a partial N-point FDCT on the input samples, computing
* just the lower 8 frequency coefficients and discarding the rest.
* We must scale the output coefficients of the N-point FDCT appropriately
* to the standard 8-point FDCT level by 8/N per 1-D pass. This scaling
* is folded into the constant multipliers (pass 2) and/or final/initial
* shifting.
* CAUTION: We rely on the FIX() macro except for the N=1,2,4,8 cases
* since there would be too many additional constants to pre-calculate.
*/

Found in path(s):
* /opt/cola/permits/161014486_1646171445.16/0/jpeg-8c-zip/jpeg-8c/jfdctint.c
No license file was found, but licenses were detected in source scan.

/*
* jdmainct.c
Copyright (C) 1994-1996, Thomas G. Lane.
This file is part of the Independent JPEG Group's software.
For conditions of distribution and use, see the accompanying README file.

This file contains the main buffer controller for decompression.
The main buffer lies between the JPEG decompressor proper and the
post-processor; it holds downscaled data in the JPEG colorspace.

Note that this code is bypassed in raw-data mode, since the application
supplies the equivalent of the main buffer in that case.

No license file was found, but licenses were detected in source scan.

/*
 * jdapistd.c
 *
 * Copyright (C) 1994-1996, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 * This file contains application interface code for the decompression half
 * of the JPEG library. These are the "standard" API routines that are
 * used in the normal full-decompression case. They are not used by a
 * transcoding-only application. Note that if an application links in
 * jpeg_start_decompress, it will end up linking in the entire decompressor.
 * We thus must separate this file from jdapimin.c to avoid linking the
 * whole decompression library into a transcoder.
 */

No license file was found, but licenses were detected in source scan.

/*
 * jquant1.c
 *
 * Copyright (C) 1991-1996, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 * This file contains 1-pass color quantization (color mapping) routines.
 * These routines provide mapping to a fixed color map using equally spaced
 * color values. Optional Floyd-Steinberg or ordered dithering is available.
 */
*/
* wrgif.c
*
* Copyright (C) 1991-1997, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains routines to write output images in GIF format.
*
**************************************************************************
* NOTE: to avoid entanglements with Unisys' patent on LZW compression, *
* this code has been modified to output "uncompressed GIF" files.       *
* There is no trace of the LZW algorithm in this file.                  *
**************************************************************************
*
* These routines may need modification for non-Unix environments or
* specialized applications. As they stand, they assume output to
* an ordinary stdio stream.
*/
/
*
* This code is loosely based on ppmtogif from the PBMPLUS distribution
* of Feb. 1991. That file contains the following copyright notice:
* Based on GIFENCODE by David Rowley <mgardi@watdscu.waterloo.edu>.
* Lempel-Ziv compression based on "compress" by Spencer W. Thomas et al.
* Copyright (C) 1989 by Jef Poskanzer.
* Permission to use, copy, modify, and distribute this software and its
* documentation for any purpose and without fee is hereby granted, provided
* that the above copyright notice appear in all copies and that both that
* copyright notice and this permission notice appear in supporting
* documentation. This software is provided "as is" without express or
* implied warranty.
*
* We are also required to state that
* "The Graphics Interchange Format(c) is the Copyright property of
* CompuServe Incorporated. GIF(sm) is a Service Mark property of
* CompuServe Incorporated."
*/

Found in path(s):
* /opt/cola/permits/161014486_1646171445.16/0/jpeg-8c-zip/jpeg-8c/wrgif.c
No license file was found, but licenses were detected in source scan.

IJG JPEG LIBRARY: CODING RULES
Copyright (C) 1991-1996, Thomas G. Lane.
This file is part of the Independent JPEG Group's software.
For conditions of distribution and use, see the accompanying README file.

Since numerous people will be contributing code and bug fixes, it's important
to establish a common coding style. The goal of using similar coding styles
is much more important than the details of just what that style is.

In general we follow the recommendations of "Recommended C Style and Coding
Standards" revision 6.1 (Cannon et al. as modified by Spencer, Keppel and
Brader). This document is available in the IJG FTP archive (see

Block comments should be laid out thusly:

    /**************************************************************************
    *    Block comments in this style.
    /**************************************************************************

We indent statements in K&R style, e.g.,
if (test) {
    then-part;
} else {
    else-part;
}
with two spaces per indentation level. (This indentation convention is
handled automatically by GNU Emacs and many other text editors.)

Multi-word names should be written in lower case with underscores, e.g.,
multi_word_name (not multiWordName). Preprocessor symbols and enum constants
are similar but upper case (MULTI_WORD_NAME). Names should be unique within
the first fifteen characters. (On some older systems, global names must be
unique within six characters. We accommodate this without cluttering the
source code by using macros to substitute shorter names.)

We use function prototypes everywhere; we rely on automatic source code
transformation to feed prototype-less C compilers. Transformation is done
by the simple and portable tool 'ansi2knr.c' (courtesy of Ghostscript).
ansi2knr is not very bright, so it imposes a format requirement on function
declarations: the function name MUST BEGIN IN COLUMN 1. Thus all functions
should be written in the following style:

    LOCAL(int *)
    function_name (int a, char *b)
    {
        code...
Note that each function definition must begin with GLOBAL(type), LOCAL(type), or METHODDEF(type). These macros expand to "static type" or just "type" as appropriate. They provide a readable indication of the routine's usage and can readily be changed for special needs. (For instance, special linkage keywords can be inserted for use in Windows DLLs.)

ansi2knr does not transform method declarations (function pointers in structs). We handle these with a macro JMETHOD, defined as

```
#ifdef HAVE_PROTOTYPES
#define JMETHOD(type,methodname,arglist)  type (*methodname) arglist
#else
#define JMETHOD(type,methodname,arglist)  type (*methodname) ()
#endif
```

which is used like this:

```c
struct function_pointers {
   JMETHOD(void, init_entropy_encoder, (int somearg, jparms *jp));
   JMETHOD(void, term_entropy_encoder, (void));
};
```

Note the set of parentheses surrounding the parameter list.

A similar solution is used for forward and external function declarations (see the EXTERN and JPP macros).

If the code is to work on non-ANSI compilers, we cannot rely on a prototype declaration to coerce actual parameters into the right types. Therefore, use explicit casts on actual parameters whenever the actual parameter type is not identical to the formal parameter. Beware of implicit conversions to "int".

It seems there are some non-ANSI compilers in which the sizeof() operator is defined to return int, yet size_t is defined as long. Needless to say, this is brain-damaged. Always use the SIZEOF() macro in place of sizeof(), so that the result is guaranteed to be of type size_t.

The JPEG library is intended to be used within larger programs. Furthermore, we want it to be reentrant so that it can be used by applications that process multiple images concurrently. The following rules support these requirements:

1. Avoid direct use of file I/O, "malloc", error report printouts, etc; pass these through the common routines provided.

2. Minimize global namespace pollution. Functions should be declared static wherever possible. (Note that our method-based calling conventions help this a lot; in many modules only the initialization function will ever need to be called directly, so only that function need be externally visible.) All global function names should begin with "jpeg_", and should have an
abbreviated name (unique in the first six characters) substituted by macro when NEED_SHORT_EXTERNAL_NAMES is set.

3. Don't use global variables; anything that must be used in another module should be in the common data structures.

4. Don't use static variables except for read-only constant tables. Variables that should be private to a module can be placed into private structures (see the system architecture document, structure.txt).

5. Source file names should begin with "j" for files that are part of the library proper; source files that are not part of the library, such as cjpeg.c and djpeg.c, do not begin with "j". Keep source file names to eight characters (plus ".c" or ".h", etc) to make life easy for MS-DOSers. Keep compression and decompression code in separate source files --- some applications may want only one half of the library.

Note: these rules (particularly #4) are not followed religiously in the modules that are used in cjpeg/djpeg but are not part of the JPEG library proper. Those modules are not really intended to be used in other applications.

Found in path(s):
*/opt/cola/permits/161014486_1646171445.16/0/jpeg-8c-zip/jpeg-8c/coderules.txt
No license file was found, but licenses were detected in source scan.

*/
* jmainct.c
*
* Copyright (C) 1994-1996, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains the main buffer controller for compression.
* The main buffer lies between the pre-processor and the JPEG
* compressor proper; it holds downsampled data in the JPEG colorspace.
*/

Found in path(s):
*/opt/cola/permits/161014486_1646171445.16/0/jpeg-8c-zip/jpeg-8c/jmainct.c
No license file was found, but licenses were detected in source scan.

*/
* jdhuff.c
*
* Copyright (C) 1991-1997, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
* This file contains Huffman entropy decoding routines.
* Both sequential and progressive modes are supported in this single module.
* Much of the complexity here has to do with supporting input suspension.
* If the data source module demands suspension, we want to be able to back
  up to the start of the current MCU. To do this, we copy state variables
  into local working storage, and update them back to the permanent
  storage only upon successful completion of an MCU.
*/

Found in path(s):
* /opt/cola/permits/161014486_1646171445.160/jpeg-8c-zip/jpeg-8c/jdhuff.c

No license file was found, but licenses were detected in source scan.

/*
 * jfdctflt.c
 *
 * Copyright (C) 1994-1996, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains a floating-point implementation of the
 * forward DCT (Discrete Cosine Transform).
 *
 * This implementation should be more accurate than either of the integer
 * DCT implementations. However, it may not give the same results on all
 * machines because of differences in roundoff behavior. Speed will depend
 * on the hardware's floating point capacity.
 *
 * A 2-D DCT can be done by 1-D DCT on each row followed by 1-D DCT
 * on each column. Direct algorithms are also available, but they are
 * much more complex and seem not to be any faster when reduced to code.
 *
 * This implementation is based on Arai, Agui, and Nakajima's algorithm for
 * scaled DCT. Their original paper (Trans. IEICE E-71(11):1095) is in
 * Japanese, but the algorithm is described in the Pennebaker & Mitchell
 * JPEG textbook (see REFERENCES section in file README). The following code
 * is based directly on figure 4-8 in P&M.
 * While an 8-point DCT cannot be done in less than 11 multiplies, it is
 * possible to arrange the computation so that many of the multiplies are
 * simple scalings of the final outputs. These multiplies can then be
 * folded into the multiplications or divisions by the JPEG quantization
 * table entries. The AA&N method leaves only 5 multiplies and 29 adds
 * to be done in the DCT itself.
 * The primary disadvantage of this method is that with a fixed-point
* implementation, accuracy is lost due to imprecise representation of the
* scaled quantization values. However, that problem does not arise if
* we use floating point arithmetic.
*/

Found in path(s):
* /opt/cola/permits/161014486_1646171445.16/0/jpeg-8c-zip/jpeg-8c/jfdctflt.c
No license file was found, but licenses were detected in source scan.

/*
* jdet.h
*
* Copyright (C) 1994-1996, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This include file contains common declarations for the forward and
* inverse DCT modules. These declarations are private to the DCT managers
* (jcdctmgr.c, jddctmgr.c) and the individual DCT algorithms.
* The individual DCT algorithms are kept in separate files to ease
* machine-dependent tuning (e.g., assembly coding).
*/

Found in path(s):
* /opt/cola/permits/161014486_1646171445.16/0/jpeg-8c-zip/jpeg-8c/jdct.h
No license file was found, but licenses were detected in source scan.

/ *
* jdmarker.c
*
* Copyright (C) 1991-1998, Thomas G. Lane.
* Modified 2009 by Guido Vollbeding.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains routines to decode JPEG datastream markers.
* Most of the complexity arises from our desire to support input
* suspension: if not all of the data for a marker is available,
* we must exit back to the application. On resumption, we reprocess
* the marker.
*/

Found in path(s):
* /opt/cola/permits/161014486_1646171445.16/0/jpeg-8c-zip/jpeg-8c/jdmarker.c
No license file was found, but licenses were detected in source scan.

/ *
* jquant2.c
* Copyright (C) 1991-1996, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains 2-pass color quantization (color mapping) routines.
* These routines provide selection of a custom color map for an image,
* followed by mapping of the image to that color map, with optional
* Floyd-Steinberg dithering.
* It is also possible to use just the second pass to map to an arbitrary
* externally-given color map.
* 
* Note: ordered dithering is not supported, since there isn't any fast
* way to compute intercolor distances; it's unclear that ordered dither's
* fundamental assumptions even hold with an irregularly spaced color map.
*/

Found in path(s):
* /opt/cola/permits/161014486_1646171445.16/0/jpeg-8c-zip/jpeg-8c/jquant2.c
No license file was found, but licenses were detected in source scan.

/*
* jcinit.c
*
* Copyright (C) 1991-1997, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
* 
* This file contains initialization logic for the JPEG compressor.
* This routine is in charge of selecting the modules to be executed and
* making an initialization call to each one.
* 
* Logically, this code belongs in jcmaster.c. It's split out because
* linking this routine implies linking the entire compression library.
* For a transcoding-only application, we want to be able to use jcmaster.c
* without linking in the whole library.
*/

Found in path(s):
* /opt/cola/permits/161014486_1646171445.16/0/jpeg-8c-zip/jpeg-8c/jcinit.c
No license file was found, but licenses were detected in source scan.

/*
* jinclude.h
*
* Copyright (C) 1991-1994, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
This file exists to provide a single place to fix any problems with
including the wrong system include files. (Common problems are taken
care of by the standard jconfig symbols, but on really weird systems
you may have to edit this file.)

NOTE: this file is NOT intended to be included by applications using the
JPEG library. Most applications need only include jpeglib.h.

Found in path(s):
/opt/cola/permits/161014486_1646171445.16/0/jpeg-8c-zip/jpeg-8c/jinclude.h

No license file was found, but licenses were detected in source scan.

/*
* jcsample.c
*
* Copyright (C) 1991-1996, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains downsampling routines.
*
* Downsampling input data is counted in "row groups". A row group
* is defined to be max_v_samp_factor pixel rows of each component,
* from which the downsampler produces v_samp_factor sample rows.
* A single row group is processed in each call to the downsampler module.
*
* The downsampler is responsible for edge-expansion of its output data
* to fill an integral number of DCT blocks horizontally. The source buffer
* may be modified if it is helpful for this purpose (the source buffer is
* allocated wide enough to correspond to the desired output width).
* The caller (the prep controller) is responsible for vertical padding.
*
* The downsampler may request "context rows" by setting need_context_rows
* during startup. In this case, the input arrays will contain at least
* one row group's worth of pixels above and below the passed-in data;
* the caller will create dummy rows at image top and bottom by replicating
* the first or last real pixel row.
*
* An excellent reference for image resampling is
*
* The downsampling algorithm used here is a simple average of the source
* pixels covered by the output pixel. The hi-falutin sampling literature
* refers to this as a "box filter". In general the characteristics of a box
* filter are not very good, but for the specific cases we normally use (1:1
* and 2:1 ratios) the box is equivalent to a "triangle filter" which is not
* nearly so bad. If you intend to use other sampling ratios, you'd be well
* advised to improve this code.

* A simple input-smoothing capability is provided. This is mainly intended
* for cleaning up color-dithered GIF input files (if you find it inadequate,
* we suggest using an external filtering program such as pnmconvol). When
* enabled, each input pixel P is replaced by a weighted sum of itself and its
* eight neighbors. P's weight is 1-8*SF and each neighbor's weight is SF,
* where SF = (smoothing_factor / 1024).
* Currently, smoothing is only supported for 2h2v sampling factors.
*

Found in path(s):
* /opt/cola/permits/161014486_1646171445.16/0/jpeg-8c-zip/jpeg-8c/jcsample.c

No license file was found, but licenses were detected in source scan.

/ *
* rdcolmap.c
* *
* Copyright (C) 1994-1996, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
* *
* This file implements djpeg's "-map file" switch. It reads a source image
* and constructs a colormap to be supplied to the JPEG decompressor.
* *
* Currently, these file formats are supported for the map file:
* GIF: the contents of the GIF's global colormap are used.
* PPM (either text or raw flavor): the entire file is read and
* each unique pixel value is entered in the map.
* Note that reading a large PPM file will be horrendously slow.
* Typically, a PPM-format map file should contain just one pixel
* of each desired color. Such a file can be extracted from an
* ordinary image PPM file with ppmtomap(1).
* *
* Rescaling a PPM that has a maxval unequal to MAXJSAMPLE is not
* currently implemented.
*/
/* Portions of this code are based on the PBMPLUS library, which is:
**
** Copyright (C) 1988 by Jef Poskanzer.
**
** Permission to use, copy, modify, and distribute this software and its
** documentation for any purpose and without fee is hereby granted, provided
** that the above copyright notice appear in all copies and that both that
** copyright notice and this permission notice appear in supporting
** documentation. This software is provided "as is" without express or
*/

Found in path(s):
* /opt/cola/permits/161014486_1646171445.16/0/jpeg-8c-zip/jpeg-8c/rdcolmap.c
No license file was found, but licenses were detected in source scan.

/*
 * jmennobs.c
 *
 * Copyright (C) 1992-1996, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file provides a really simple implementation of the system-dependent portion of the JPEG memory manager. This implementation assumes that no backing-store files are needed: all required space can be obtained from malloc().
 * This is very portable in the sense that it'll compile on almost anything,
 * but you'd better have lots of main memory (or virtual memory) if you want to process big images.
 * Note that the max_memory_to_use option is ignored by this implementation.
 */

Found in path(s):
* /opt/cola/permits/161014486_1646171445.16/0/jpeg-8c-zip/jpeg-8c/jmennobs.c
No license file was found, but licenses were detected in source scan.

/*
 * jdinput.c
 *
 * Copyright (C) 1991-1997, Thomas G. Lane.
 * Modified 2002-2009 by Guido Vollbeding.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains input control logic for the JPEG decompressor.
 * These routines are concerned with controlling the decompressor's input processing (marker reading and coefficient decoding). The actual input reading is done in jdmarker.c, jdhuff.c, and jdarith.c.
 */

Found in path(s):
* /opt/cola/permits/161014486_1646171445.16/0/jpeg-8c-zip/jpeg-8c/jdinput.c
No license file was found, but licenses were detected in source scan.

/*
 * jcmaster.c
* Copyright (C) 1991-1997, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains master control logic for the JPEG compressor.
* These routines are concerned with parameter validation, initial setup,
* and inter-pass control (determining the number of passes and the work
* to be done in each pass).
*/

Found in path(s):
* /opt/cola/permits/161014486_1646171445.16/0/jpeg-8c-zip/jpeg-8c/jcmaster.c
No license file was found, but licenses were detected in source scan.

/ *
* rdjpgcom.c
 *
* Copyright (C) 1994-1997, Thomas G. Lane.
* Modified 2009 by Bill Allombert, Guido Vollbeding.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
 *
* This file contains a very simple stand-alone application that displays
* the text in COM (comment) markers in a JFIF file.
* This may be useful as an example of the minimum logic needed to parse
* JPEG markers.
*/

Found in path(s):
* /opt/cola/permits/161014486_1646171445.16/0/jpeg-8c-zip/jpeg-8c/rdjpgcom.c
No license file was found, but licenses were detected in source scan.

/ *
* jdatadst.c
 *
* Copyright (C) 1994-1996, Thomas G. Lane.
* Modified 2009 by Guido Vollbeding.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
 *
* This file contains compression data destination routines for the case of
* emitting JPEG data to memory or to a file (or any stdio stream).
* While these routines are sufficient for most applications,
* some will want to use a different destination manager.
* IMPORTANT: we assume that fwrite() will correctly transcribe an array of
* JOCTETs into 8-bit-wide elements on external storage. If char is wider
than 8 bits on your machine, you may need to do some tweaking.
*/

Found in path(s):
*/opt/cola/permits/161014486_1646171445.16/0/jpeg-8c-zip/jpeg-8c/jdatadst.c

1.1631 icu 60.2 3ubuntu3.1
1.1631.1 Available under license:

## -*-makefile-*-
## Copyright (C) 2016 and later: Unicode, Inc. and others.
## License & terms of use: http://www.unicode.org/copyright.html
## BSD-specific setup (FreeBSD, OpenBSD, NetBSD, *BSD)
## Copyright (c) 1999-2013, International Business Machines Corporation and
## others. All Rights Reserved.

## Commands to generate dependency files
GEN_DEPS.c=$(CC) -E -MM $(DEFS) $(CPPFLAGS)
GEN_DEPS.cc=$(CXX) -E -MM $(DEFS) $(CPPFLAGS)

## Flags for position independent code
SHAREDLIBCFLAGS = -fPIC
SHAREDLIBCXXFLAGS = -fPIC
SHAREDLIBCPPFLAGS = -DPIC

## Additional flags when building libraries and with threads
THREADSCPPFLAGS = -D_REENTRANT
LIBCPPFLAGS =

## Compiler switch to embed a runtime search path
LD_RPATH=
LD_RPATH_PRE=-Wl,-rpath,

## Compiler switch to embed a library name
LD_SONAME = -Wl,-soname -Wl,$(notdir $(MIDDLE_SO_TARGET))

## Shared library options
LD_SOOPTIONS= -Wl,-Bs symbolic

## Shared object suffix
SO = so

## Non-shared intermediate object suffix
STATIC_O = ao

## Compilation rules
%.$(STATIC_O): $(sdir)/%.c
$(COMPILE.c) $(STATICCPPFLAGS) $(STATICCPPFLAGS) -o $@ $<
## Dependency rules

%.d: $(srcdir)/%.c
@echo "generating dependency information for $<"
@$(SHELL) -ec '$(GEN_DEPS.c) $< \
| sed 's\(^.*\).o\[ :\]*/\1.o $@ : /g\' > $@; \n[ -s $@ ] || rm -f $@'

%.d: $(srcdir)/%.cpp
@echo "generating dependency information for $<"
@$(SHELL) -ec '$(GEN_DEPS.cc) $< \
| sed 's\(^.*\).o\[ :\]*/\1.o $@ : /g\' > $@; \n[ -s $@ ] || rm -f $@'

## Versioned libraries rules

%.$(SO).$(SO_TARGET_VERSION_MAJOR): %.$(SO).$(SO_TARGET_VERSION)
$(RM) $@ && ln -s ${<F} $@
%.$(SO): %.$(SO).$(SO_TARGET_VERSION_MAJOR)
$(RM) $@ && ln -s ${(F).*}.$(SO).$(SO_TARGET_VERSION) $@

## Bind internal references

# LDflags that pkgdata will use
BIR_LDFLAGS= -Wl,-Bsymbolic

# Dependencies [i.e. map files] for the final library
BIR_DEPS=

## Remove shared library 's'
STATIC_PREFIX_WHEN_USED =
STATIC_PREFIX =

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1.1641 go-sql-driver-mysql 1.5.0

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This package was put together by Klee Dienes <klee@debian.org> from
sources from ftp.python.org:/pub/python, based on the Debianization by
the previous maintainers Bernd S. Brentrup <bsb@uni-muenster.de> and
Bruce Perens.

Current maintainer is Matthias Klose <doko@debian.org> until the final
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A. HISTORY OF THE SOFTWARE

Python was created in the early 1990s by Guido van Rossum at Stichting
Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands
as a successor of a language called ABC. Guido remains Python's
principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for
National Research Initiatives (CNRI, see http://www.cnri.reston.va.us)
in Reston, Virginia where he released several versions of the
software.

In May 2000, Guido and the Python core development team moved to
BeOpen.com to form the BeOpen PythonLabs team. In October of the same
year, the PythonLabs team moved to Digital Creations (now Zope
Corporation, see http://www.zope.com). In 2001, the Python Software
Foundation (PSF, see http://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of the PSF.

All Python releases are Open Source (see http://www.opensource.org for the Open Source Definition). Historically, most, but not all, Python releases have also been GPL-compatible; the table below summarizes the various releases.

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py3compile, py3clean and debpython module:
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Protocol Buffers for Go with Gadgets

Go support for Protocol Buffers - Google's data interchange format

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https://github.com/golang/protobuf

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#
0 0 0 Index 3
65 38 30 Index 4
103 62 49 Index 6
79 73 72 Index 7
114 101 97 Index 8
208 127 100 Index 9
151 144 142 Index 10
221 207 199 Index 11

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Name: badpalettefile
Columns: 4
#
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34567890123456789
103 62 49  Index 6
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208 127 100  Index 9
151 144 142  Index 10
221 207 199  Index 11

NotoNastaliqUrdu-Regular.ttf and NotoSansSymbols-Regular.ttf, from https://github.com/googlei18n/noto-fonts
NotoSans-Regular.ttf, from https://www.google.com/get/noto/
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AdobeVFPrototype.ttf, from https://github.com/adobe-fonts/adobe-variable-font-prototype
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Name: badpaletteentry
Columns: 4
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  208 127 100 Index 9
  151 144 142 Index 10
  221 207 199 Index 11

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 */
/**
 * A subcontext which carries information about whether the message channel in use is considered
 * to have the active properties of confidentiality and integrity.
 *
 * This data is typically used to determine whether additional application- or protocol-specific signing
 * and/or encryption operations are necessary.
 */
/**
 * Message channel confidentiality flag. */
/**
 * Get whether message channel confidentiality is active.
 *
 * @return Returns the confidentialityActive.
 */
/**
 * Set whether message channel confidentiality is active.
 *
 * @param flag The confidentialityActive to set.
 */

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* /opt/cola/permits/1000740286_1646171488.95/0/opensaml-messaging-api-3-3-0-sources.jar/org/opensaml/messaging/context/MessageChannelSecurityContext.java
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1.1675 python-enum 1.0.4-1.amzn2

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1.1676 python-pyasn1 0.1.9-7.amzn2.0.1

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We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

Although the Lesser General Public License is Less protective of the users' freedom, it does ensure that the user of a program that is
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A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

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   (For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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Finally, software patents pose a constant threat to the existence of any free program. We wish to make sure that a company cannot effectively restrict the users of a free program by obtaining a restrictive license from a patent holder. Therefore, we insist that any patent license obtained for a version of the library must be consistent with the full freedom of use specified in this license.

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When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.
6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

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b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the
Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

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If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

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b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

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Source Files
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. The file `src/libs/snprintf/snprintf.c', written by Mark Martinec <mark.martinec@ijs.si>.

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src/preproc/grn/gprint.h
. The `gxditview' output device. It is based on X11's `xditview' program and thus has the X license.

Macro Packages
--------------
. The -mdoc macro set, using the BSD license.
tmac/doc.tmac
tmac/doc-old.tmac
tmac/doc-common
tmac/doc-ditroff
tmac/doc-nroff
tmac/doc-syms
tmac/groff_mdoc.man

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tmac/groff_me.man
doc/meintro.me
doc/meintro_fr.me
doc/meref.me

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---------------------

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http://dante.ctan.org/CTAN/language/hyphenation/dehyphn.tex
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==============
Test 1.1:101
==============
Testing argument parsing
First type
e1_l1_1
e1_l1_1
e1_l1_2
e1_l1_2
Test 1.2:102

Test 1.3:103
Test 1.4:104

Second type

Test 1.4.1:105
Test 1.6:107

Test 1.7:108
Test 1:8:109
Test 1.9:110

---

t1_1_1
t1_1_2
t1_1_3
t1_1_4

t1_1_5
t1_1_6
t1_1_7

t1_1_8
t1_1_9

t1_1_10
t1_1_11

t1_1_12

t1_1_13

t1_1_14

---

Test 1.10:111

---

st_1_1_1
st_1_1_2
st_1_1_3
st_1_1_4
st_1_1_5
st_1_1_6
st_1_1_7
st_1_1_8
st_1_1_9
st_1_1_10
st_1_1_11
st_1_1_12
st_1_1_13
st_1_1_14

---

Test 1.11:112

---

et_1_1_1
et_1_1_2
et_1_1_3
et_1_1_4
et_1_1_5
et_1_1_6
et_1_1_7
et_1_1_8
et_1_1_9
test 1.14:115

------------------
s1_11_1
s2_s1_11_1
s2_s1_11_1
s1_11_2
s2_s1_11_2
s2_s1_11_2
s1_11_3
s2_s1_11_3
s2_s1_11_3
s1_11_4
s2_s1_11_4
s2_s1_11_4
s1_11_5
s2_s1_11_5
s2_s1_11_5
s1_11_6
s2_s1_11_6
s2_s1_11_6
s1_11_7
s2_s1_11_7
s2_s1_11_7
s1_11_8
s2_s1_11_8

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Test 1.15:116

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s2_s1_l1_8
s1_l1_9
s2_s1_l1_9
s2_s1_l1_9
s1_l1_10
s2_s1_l1_10
s2_s1_l1_10
s1_l1_11
s2_s1_l1_11
s2_s1_l1_11
s1_l1_12
s2_s1_l1_12
s2_s1_l1_12
s1_l1_13
s2_s1_l1_13
s2_s1_l1_13
s1_l1_14
s2_s1_l1_14
s2_s1_l1_14

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e1_l1_1
s1_e1_l1_1
s1_e1_l1_1
e1_l1_2
s1_e1_l1_2
s1_e1_l1_2
e1_l1_3
s1_e1_l1_3
s1_e1_l1_3
e1_l1_4
s1_e1_l1_4
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s1_e1_l1_5
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s1_e1_l1_6
s1_e1_l1_6
e1_l1_7
s1_e1_l1_7
s1_e1_l1_7
e1_l1_8
s1_e1_l1_8
s1_e1_l1_8
e1_l1_9
Testing address ranges

Test 1.18:119

Test 2.1:120

Test 2.2:121

Test 2.3:122
Test 2.4:123
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l2_9

Test 2.5:124
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l2_9

Test 2.6:125
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l2_9

Test 2.7:126
------------

Test 2.9:127
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Test 2.10:128
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Test 2.11:129
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Test 2.12:130
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Test 2.13:131
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Test 2.14:132

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Test 2.14:132

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12_9

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Test 2.18:136
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12_3
12_4
12_5
12_6
12_7
12_8
12_9

============
Test 2.19:137
============
11_12

============
Test 2.20:138
============
11_7
Brace and other grouping

============
Test 3.1:139
============
11_1
11_2
11_3
^1IT4$
^1IT5$
^1IT6$
Testing a c d and i commands

============= Test 4.1:143 =============
before_i1_1
after_i before_i1_1
before_i1_2
after_i before_i1_2
before_i1_3
after_i before_i1_3
before_i1_4
after_i before_i1_4
before_i1_5
after_i before_i1_5
before_i1_6
after_i before_i1_6
before_i1_7
after_i before_i1_7
before_i1_8
after_i before_i1_8
before_i1_9
after_i before_i1_9
before_i1_10
after_i before_i1_10
before_i1_11
after_i before_i1_11
before_i1_12
after_i before_i1_12
before_i1_13
after_i before_i1_13
before_i1_14
after_i before_i1_14
before_i2_1
Test 4.2:144

before_al1_1
after_abefore_al1_1
before_al1_2
after_abefore_al1_2
before_al1_3
after_abefore_al1_3
before_al1_4
after_abefore_al1_4
before_a5-1211_5
after_abefore_a5-1211_5 appended
before_a5-1211_6
after_abefore_a5-1211_6 appended
before_a5-1211_7
after_abefore_a5-1211_7 appended
before_a5-1211_8
after_abefore_a5-1211_8 appended
before_a5-1211_9
after_abefore_a5-1211_9 appended
before_a5-1211_10
after_abefore_a5-1211_10 appended
before_a5-1211_11
after_abefore_a5-1211_11
appended
before_a5-1211_12
after_abefore_a5-1211_12
appended
before_al1_13
after_abefore_al1_13
before_al1_14
after_abefore_al1_14
before_al2_1
after_abefore_al2_1
before_al2_2
after_abefore_al2_2
before_al2_3
after_abefore_al2_3
before_al2_4
after_abefore_al2_4
before_al2_5
after_abefore_al2_5
before_al2_6
after_abefore_al2_6
before_al2_7
after_abefore_al2_7
before_al2_8
after_abefore_al2_8
before_al2_9
after_abefore_al2_9

=============
Test 4.3:145
=============
^l1_1
^l1_1$
appended
^l1_2
^l1_2$
appended
^l1_3
^l1_3$
appended
^l1_4
^l1_4$
appended
^l1_5
^l1_5$
appended
^l1_6
Test 4.4:146

hello
hello
hello
hello
hello
hello
hello
hello
hello
hello
hello

============
Test 4.5:147
============
hello

============
Test 4.6:148
============
hello

============
Test 4.7:149
============
hello

============
Test 4.8:150
============
Testing labels and branching

============
Test 5.1:151
============
label2_11_1
label3_label2_11_1
label1_11_2
label1_11_3
label1_11_4
label1_11_5
label1_11_6
label1_11_7
label1_11_8
label1_11_9
label1_11_10
label1_11_11
label1_11_12
label2_11_13
Test 5.2:152

Tested: l2_1
Tested: l2_2
Tested: l2_3
Tested: l2_4
Tested: l2_5
Tested: l2_6
Tested: l2_7
Tested: l2_8
Tested: l2_9
Tested: l2_10
Tested: l2_11
Tested: l2_12
Tested: l2_13
Tested: l2_14

Test 5.3:153

^l1_1$
^l1_1$
^l1_2$
^l1_2$
^l1_3$
^l1_3$
^l1_4$
^l1_4$
l1_5$
l1_5$
l1_6$
l1_6$
l1_7$
l1_7$
l1_8$
l1_8$

Test 5.4:154

^l1_1$
^l1_1$
^l1_2$
^l1_2$
^l1_3$
^l1_3$
^l1_4$
^l1_4$
l1_5$
l1_5$
l1_6$
l1_6$
l1_7$
l1_7$

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Test 5.5:155

Test 5.6:156

Test 5.7:157

Test 5.8:158
Pattern space commands

============= Test 6.1:159 =============
changed
changed
changed
changed
changed
changed
changed
changed
changed
changed
changed
changed
changed
changed
changed
changed
changed
changed
changed
changed
changed
changed
changed

============= Test 6.2:160 =============
11_1
11_2
11_3
11_5
11_6
11_7
11_8
11_9
11_10
11_11
11_12
11_13
11_14

============== Test 6.3:161 ===============
11_5
11_6
11_7
Test 6.6:164

Testing print and file routines

Test 7.1:165

Test 7.2:166

11_1
11_2
11_3
11_4
11_5
11_6
11_7
11_8
11_9
11_10
11_11
11_12
11_13
11_14
15
12_1
16
12_2
17
12_3
18
Test 7.3:167

Test 7.4:168

w results
Test 7.5:169

Test 7.6:170
Testing substitution commands

Test 8.1:172

Test 8.2:173
Test 8.3:174

Test 8.4:175

Test 8.5:176
Test 8.6:177

Test 8.7:178

Test 8.8:179
u1
u211
11u0
u1
u212
11u0
u1
u213
11u0
u1
u214

=============
Test 8.10:181
===============
11_X
11_X
11_X
11_X
11_X
11_X
11_X
11_X
11_X
11_X0
11_X1
11_X2
11_X3
11_X4

==============
Test 8.11:182
==============
1X_1
1X_2
1X_3
1X_4
1X_5
1X_6
1X_7
1X_8
1X_9
1X_10
1X_11
1X_12
1X_13
1X_14
s wfile results
IX_1
IX_2
IX_3
IX_4
IX_5
IX_6
IX_7
IX_8
IX_9
IX_10
IX_11
IX_12
IX_13
IX_14

==============
Test 8.12:183
==============
IX_X
IX_X
IX_X
IX_X
IX_4
IX_5
IX_6
IX_7
IX_8
IX_9
IX_X0
IX_XX
IX_XX
IX_XX
IX_X4

==============
Test 8.13:184
==============
18_8
18_7
18_6
18_5
18_4
18_3
18_2
18_1
18_0
18_89
18_88
18_87
<table>
<thead>
<tr>
<th>18.86</th>
</tr>
</thead>
</table>

| 18.85 |

---------
**Test 8.14:**185
---------
| 18.8 |
| 18.7 |
| 18.6 |
| 18.5 |
| 18.4 |
| 18.3 |
| 18.2 |
| 18.1 |
| 18.0 |
| 18.89 |
| 18.88 |
| 18.87 |
| 18.86 |
| 18.85 |

---------
**Test 8.15:**186
---------
| 11.1 |
| 11.2 |
| 11.3 |
| 11.4 |
| 11.5 |
| 11.6 |
| 11.7 |
| 11.8 |
| 11.9 |
| 11.10 |
| 11.11 |
| 11.12 |
| 11.13 |
| 11.14 |

---------
**Test 8.16:**187
---------
| eef |
| ffe |
| eff |
| eff |
| eff |
| eff |
| eff |
| eff |
| eff |

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The "source code" for a work means the preferred form of the work for making modifications to it. "Object code" means any non-source form of a work.

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=back

Test::Simple will start by printing number of tests run in the form
"1..M" (so "1..5" means you're going to run 5 tests). This strange
format lets Test::Harness know how many tests you plan on running in
case something goes horribly wrong.

If all your tests passed, Test::Simple will exit with zero (which is
normal). If anything failed it will exit with how many failed. If
you run less (or more) tests than you planned, the missing (or extras)
will be considered failures. If no tests were ever run Test::Simple
will throw a warning and exit with 255. If the test died, even after
having successfully completed all its tests, it will still be
considered a failure and will exit with 255.

So the exit codes are...

<table>
<thead>
<tr>
<th>Exit Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>all tests successful</td>
</tr>
<tr>
<td>255</td>
<td>test died</td>
</tr>
<tr>
<td>any other</td>
<td>how many failed (including</td>
</tr>
<tr>
<td></td>
<td>missing or extras)</td>
</tr>
</tbody>
</table>

If you fail more than 254 tests, it will be reported as 254.

This module is by no means trying to be a complete testing system.
It's just to get you started. Once you're off the ground it's
recommended you look at L<Test::More>.

=head1 EXAMPLE

Here's an example of a simple .t file for the fictional Film module.

use Test::Simple tests => 5;

use Film;  # What you're testing.

my $btaste = Film->new({ Title => 'Bad Taste',
                        Director => 'Peter Jackson',
                        ... other settings ... });

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Rating => 'R',
NumExplodingSheep => 1
});
ok( defined($btaste) and ref $btaste eq 'Film', 'new() works');

ok( $btaste->Title eq 'Bad Taste', 'Title() get' );
ok( $btaste->Director eq 'Peter Jackson', 'Director() get' );
ok( $btaste->Rating eq 'R', 'Rating() get' );
ok( $btaste->NumExplodingSheep == 1, 'NumExplodingSheep() get' );

It will produce output like this:

1..5
 ok 1 - new() works
 ok 2 - Title() get
 ok 3 - Director() get
not ok 4 - Rating() get
 # Failed test (t/film.t at line 14)
 ok 5 - NumExplodingSheep() get
 # Looks like you failed 1 tests of 5

Indicating the Film::Rating() method is broken.

=head1 CAVEATS

Test::Simple will only report a maximum of 254 failures in its exit code. If this is a problem, you probably have a huge test script. Split it into multiple files. (Otherwise blame the Unix folks for using an unsigned short integer as the exit status).

Because VMS's exit codes are much, much different than the rest of the universe, and perl does horrible mangling to them that gets in my way, it works like this on VMS.

0  SS$_NORMAL        all tests successful
4  SS$_ABORT         something went wrong

Unfortunately, I can't differentiate any further.

=head1 NOTES

Test::Simple is B<explicitly> tested all the way back to perl 5.004. Test::Simple is thread-safe in perl 5.8.0 and up.
This module was conceived while talking with Tony Bowden in his kitchen one night about the problems I was having writing some really complicated feature into the new Testing module. He observed that the main problem is not dealing with these edge cases but that people hate to write tests at all. What was needed was a dead simple module that took all the hard work out of testing and was really, really easy to learn. Paul Johnson simultaneously had this idea (unfortunately, he wasn't in Tony's kitchen). This is it.

=head1 SEE ALSO

=over 4

=item L<Test::More>

More testing functions! Once you outgrow Test::Simple, look at Test::More. Test::Simple is 100% forward compatible with Test::More (i.e. you can just use Test::More instead of Test::Simple in your programs and things will still work).

=item L<Test>

The original Perl testing module.

=item L<Test::Unit>

Elaborate unit testing.

=item L<Test::Inline>, L<SelfTest>

Embed tests in your code!

=item L<Test::Harness>

Interprets the output of your test program.

=back

=head1 AUTHORS

Idea by Tony Bowden and Paul Johnson, code by Michael G Schwern
E<lt>schwern@pobox.comE<gt>, wardrobe by Calvin Klein.

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/*
******************************************************************************
ppport.h -- Perl/Pollution/Portability Version 3.19

Automatically created by Devel::PPPort running under perl 5.012003.

Do NOT edit this file directly! -- Edit PPPort_pm.PL and the includes in parts/inc/ instead.

Use 'perldoc ppport.h' to view the documentation below.

******************************************************************************

SKIP

=pod

=head1 NAME

ppport.h - Perl/Pollution/Portability version 3.19

=head1 SYNOPSIS

perl ppport.h [options] [source files]
Searches current directory for files if no [source files] are given

--help                show short help
--version             show version
--patch=file          write one patch file with changes
--copy=suffix         write changed copies with suffix
--diff=program        use diff program and options
--compat-version=version  provide compatibility with Perl version
--cplusplus           accept C++ comments
--quiet               don't output anything except fatal errors
--nodiag              don't show diagnostics
--nohints             don't show hints
--nochanges           don't suggest changes
--nofilter            don't filter input files
--strip               strip all script and doc functionality from ppport.h
--list-provided       list provided API
--list-unsupported    list unsupported API
--api-info=name       show Perl API portability information

=head1 COMPATIBILITY

This version of F<ppport.h> is designed to support operation with Perl installations back to 5.003, and has been tested up to 5.10.0.

=head1 OPTIONS

=head2 --help

Display a brief usage summary.

=head2 --version

Display the version of F<ppport.h>.

=head2 --patch=I<file>

If this option is given, a single patch file will be created if any changes are suggested. This requires a working diff program to be installed on your system.

=head2 --copy=I<suffix>
If this option is given, a copy of each file will be saved with the given suffix that contains the suggested changes. This does not require any external programs. Note that this does not automagically add a dot between the original filename and the suffix. If you want the dot, you have to include it in the option argument.

If neither C<--patch> or C<--copy> are given, the default is to simply print the diffs for each file. This requires either C<Text::Diff> or a C<diff> program to be installed.

=head2 --diff=I<program>

Manually set the diff program and options to use. The default is to use C<Text::Diff>, when installed, and output unified context diffs.

=head2 --compat-version=I<version>

Tell F<ppport.h> to check for compatibility with the given Perl version. The default is to check for compatibility with Perl version 5.003. You can use this option to reduce the output of F<ppport.h> if you intend to be backward compatible only down to a certain Perl version.

=head2 --cplusplus

Usually, F<ppport.h> will detect C++ style comments and replace them with C style comments for portability reasons. Using this option instructs F<ppport.h> to leave C++ comments untouched.

=head2 --quiet

Be quiet. Don't print anything except fatal errors.

=head2 --nodiag

Don't output any diagnostic messages. Only portability alerts will be printed.

=head2 --nohints

Don't output any hints. Hints often contain useful portability notes. Warnings will still be displayed.

=head2 --nochanges
Don't suggest any changes. Only give diagnostic output and hints unless these are also deactivated.

=head2 --nofilter

Don't filter the list of input files. By default, files not looking like source code (i.e. not *.xs, *.c, *.cc, *.cpp or *.h) are skipped.

=head2 --strip

Strip all script and documentation functionality from F<ppport.h>. This reduces the size of F<ppport.h> dramatically and may be useful if you want to include F<ppport.h> in smaller modules without increasing their distribution size too much.

The stripped F<ppport.h> will have a C<--unstrip> option that allows you to undo the stripping, but only if an appropriate C<Devel::PPPort> module is installed.

=head2 --list-provided

Lists the API elements for which compatibility is provided by F<ppport.h>. Also lists if it must be explicitly requested, if it has dependencies, and if there are hints or warnings for it.

=head2 --list-unsupported

Lists the API elements that are known not to be supported by F<ppport.h> and below which version of Perl they probably won't be available or work.

=head2 --api-info=I<name>

Show portability information for API elements matching I<name>. If I<name> is surrounded by slashes, it is interpreted as a regular expression.

=head1 DESCRIPTION

In order for a Perl extension (XS) module to be as portable as possible across differing versions of Perl itself, certain steps need to be taken.

=over 4

=item *

Including this header is the first major one. This alone will give you
access to a large part of the Perl API that hasn't been available in earlier Perl releases. Use

```
perl ppport.h --list-provided
```

to see which API elements are provided by ppport.h.

=item *

You should avoid using deprecated parts of the API. For example, using global Perl variables without the C<PL_> prefix is deprecated. Also, some API functions used to have a C<perl_> prefix. Using this form is also deprecated. You can safely use the supported API, as F<ppport.h> will provide wrappers for older Perl versions.

=item *

If you use one of a few functions or variables that were not present in earlier versions of Perl, and that can't be provided using a macro, you have to explicitly request support for these functions by adding one or more C<#define>s in your source code before the inclusion of F<ppport.h>.

These functions or variables will be marked C<explicit> in the list shown by C<--list-provided>.

Depending on whether you module has a single or multiple files that use such functions or variables, you want either C<static> or global variants.

For a C<static> function or variable (used only in a single source file), use:

```
#define NEED_function
#define NEED_variable
```

For a global function or variable (used in multiple source files), use:

```
#define NEED_functionGLOBAL
#define NEED_variableGLOBAL
```

Note that you mustn't have more than one global request for the same function or variable in your project.

<table>
<thead>
<tr>
<th>Function / Variable</th>
<th>Static Request</th>
<th>Global Request</th>
</tr>
</thead>
<tbody>
<tr>
<td>PL_parser</td>
<td>NEED_PL_parser</td>
<td>NEED_PLParserGLOBAL</td>
</tr>
<tr>
<td>PL_signals</td>
<td>NEED_PL_signals</td>
<td>NEED_PLL signalsGLOBAL</td>
</tr>
</tbody>
</table>
To avoid namespace conflicts, you can change the namespace of the explicitly exported functions / variables using the C<\#define> the macro before including C<ppport.h>:

```
#define DPPP_NAMESPACE MyOwnNamespace_
#include "ppport.h"
```

The default namespace is C<DPPP_>.

=back

The good thing is that most of the above can be checked by running F<ppport.h> on your source code. See the next section for details.

=head1 EXAMPLES

To verify whether F<ppport.h> is needed for your module, whether you
should make any changes to your code, and whether any special defines should be used, `F<ppport.h>` can be run as a Perl script to check your source code. Simply say:

    perl ppport.h

The result will usually be a list of patches suggesting changes that should at least be acceptable, if not necessarily the most efficient solution, or a fix for all possible problems.

If you know that your XS module uses features only available in newer Perl releases, if you're aware that it uses C++ comments, and if you want all suggestions as a single patch file, you could use something like this:

    perl ppport.h --compat-version=5.6.0 --cplusplus --patch=test.diff

If you only want your code to be scanned without any suggestions for changes, use:

    perl ppport.h --nochanges

You can specify a different C<diff> program or options, using the C<--diff> option:

    perl ppport.h --diff='diff -C 10'

This would output context diffs with 10 lines of context.

If you want to create patched copies of your files instead, use:

    perl ppport.h --copy=.new

To display portability information for the C<newSVpvn> function, use:

    perl ppport.h --api-info=newSVpvn

Since the argument to C<--api-info> can be a regular expression, you can use

    perl ppport.h --api-info=/_nomg$/

to display portability information for all C<_nomg> functions or

    perl ppport.h --api-info=/

to display information for all known API elements.
=head1 BUGS

If this version of F<ppport.h> is causing failure during
the compilation of this module, please check if newer versions
of either this module or C<Devel::PPPort> are available on CPAN
before sending a bug report.

If F<ppport.h> was generated using the latest version of
C<Devel::PPPort> and is causing failure of this module, please
file a bug report using the CPAN Request Tracker at L<http://rt.cpan.org/>.

Please include the following information:

=over 4

=item 1.

The complete output from running "perl -V"

=item 2.

This file.

=item 3.

The name and version of the module you were trying to build.

=item 4.

A full log of the build that failed.

=item 5.

Any other information that you think could be relevant.

=back

For the latest version of this code, please get the C<Devel::PPPort>
module from CPAN.

=head1 COPYRIGHT

Version 3.x, Copyright (c) 2004-2009, Marcus Holland-Moritz.

Version 2.x, Copyright (C) 2001, Paul Marquess.

Version 1.x, Copyright (C) 1999, Kenneth Albanowski.
This program is free software; you can redistribute it and/or
modify it under the same terms as Perl itself.
=head1 SEE ALSO
See L<Devel::PPPort>.
=cut
use strict;
# Disable broken TRIE-optimization
BEGIN { eval '${^RE_TRIE_MAXBUF} = -1' if $] >= 5.009004 && $] <= 5.009005 }
my $VERSION = 3.19;
my %opt = (
quiet => 0,
diag
=> 1,
hints => 1,
changes => 1,
cplusplus => 0,
filter => 1,
strip => 0,
version => 0,
);
my($ppport) = $0 =~ /([\w.]+)$/;
my $LF = '(?:\r\n|[\r\n])'; # line feed
my $HS = "[ \t]";
# horizontal whitespace
# Never use C comments in this file!
my $ccs = '/'.'*';
my $cce = '*'.'/';
my $rccs = quotemeta $ccs;
my $rcce = quotemeta $cce;
eval {
require Getopt::Long;
Getopt::Long::GetOptions(\%opt, qw(
help quiet diag! filter! hints! changes! cplusplus strip version
patch=s copy=s diff=s compat-version=s
list-provided list-unsupported api-info=s
)) or usage();
};
if ($@ and grep /^-/, @ARGV) {

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usage() if "@ARGV" =~ /h|--?h(?:elp)?$/;
die "Getopt::Long not found. Please don't use any options.";

if ($opt{version}) {
    print "This is $0 $VERSION.
    exit 0;
}

usage() if $opt{help};
strip() if $opt{strip};

if (exists $opt{'compat-version'}) {
    my($r,$v,$s) = eval { parse_version($opt{'compat-version'}) };
    if ($@) {
        die "Invalid version number format: '$opt{'compat-version'}'
        }
    die "Only Perl 5 is supported" if $r != 5;
    die "Invalid version number: $opt{'compat-version'}" if $v >= 1000 || $s >= 1000;
    $opt{'compat-version'} = sprintf "%.03d%.03d", $r, $v, $s;
} else {
    $opt{'compat-version'} = 5;
}

my %API = map { /\[(\w+).*\]|(\w+).*\]|(\w+).*\]|(\w+)$/?
    ? ( $1 => {
        ($2 ? ( base => $2 ) : ()),
        ($3 ? ( todo => $3 ) : ()),
        (index($4, 'v') >= 0 ? ( varargs => 1 ) : ()),
        (index($4, 'p') >= 0 ? ( provided => 1 ) : ()),
        (index($4, 'n') >= 0 ? ( nothxarg => 1 ) : ()),
    } )
    : die "invalid spec: $_" } qw(AvFILLp|5.004050||p AvFILL|| CLASS|| CPERScope|5.005000||p CX_CURPAD_SAVE|| CX_CURPAD_SV|| CopFILEAV|5.006000||p CopFILEGv_set|5.006000||p CopFILEGV|5.006000||p CopFILE_set|5.006000||p CopFILE|5.006000||p CopSTASHPV_set|5.006000||p CopSTASHPV|5.006000||p
IN_PERL_COMPILETIME\$5.008001\p
IS_NUMBER_GREATER_THAN_UV_MAX\$5.007002\p
IS_NUMBER_INFINITY\$5.007002\p
IS_NUMBER_IN_UV\$5.007002\p
IS_NUMBER_NAN\$5.007003\p
IS_NUMBER_NEG\$5.007002\p
IS_NUMBER_NOT_INT\$5.007002\p
IVSIZE\$5.006000\p
IVTYPE\$5.006000\p
IVdf\$5.006000\p
LEAVE\p
LVRET\p
MARK\p
MULTICALL\$5.011000\p
MY_CXT_CLONE\$5.009002\p
MY_CXT_INIT\$5.007003\p
MY_CXT\$5.007003\p
MoveD\$5.009002\p
Move\p
NOOP\$5.005000\p
NUM2PTR\$5.006000\p
NVTYPE\$5.006000\p
NVef\$5.006000\p
NVrf\$5.006000\p
NVgf\$5.006000\p
Newxc\$5.009003\p
Newxz\$5.009003\p
Newx\$5.009003\p
Nullav\p
Nullch\p
Nullcv\p
Nullhv\p
Nullsv\p
ORIGMARK\p
PAD_BASE_SV\p
PAD_CLONE_VARS\p
PAD_COMPNAME_FLAGS\p
PAD_COMPNAME Gen_set\p
PAD_COMPNAME Gen\p
PAD_COMPNAME_OURSTASH\p
PAD_COMPNAME_PV\p
PAD_COMPNAME_TYPE\p
PAD_DUP\p
PAD_RESTORE_LOCAL\p
PAD_SAVE_LOCAL\p
PAD_SAVE_SETNULLPAD\p
PAD_SETSV\p
PAD_SET_CUR_NOSAVE\p
SvCUR
SvEND
SvGAMAGIC|5.006001
SvGETMAGIC|5.004050
SvGROW
SvIOK_UV|5.006000
SvIOK_notUV|5.006000
SvIOK_off
SvIOK_only_UV|5.006000
SvIOK_only
SvIOK_on
SvIOKp
SvIOK
SvIVX
SvIV_nomg|5.009001
SvIV_set
SvIVx
SvIV
SvIsCOW_shared_hash|5.008003
SvIsCOW|5.008003
SvLEN_set
SvLEN
SvLOCK|5.007003
SvMAGIC_set|5.009003
SvNIOK_off
SvNIOKp
SvNIOK
SvNOK_off
SvNOK_only
SvNOK_on
SvNOKp
SvNOK
SvNVX
SvNV_set
SvNVx
SvNV
SvOK
SvOOK_offset|5.011000
SvOOK
SvPOK_off
SvPOK_only_UTF8|5.006000
SvPOK_only
SvPOK_on
SvPOKp
SvPOK
SvPVX_const|5.009003
SvPVX_mutable|5.009003
SvPVX
SvPV\_const[5.009003]\|p
SvPV\_flags\_const\_nolen[5.009003]\|p
SvPV\_flags\_const[5.009003]\|p
SvPV\_flags\_mutable[5.009003]\|p
SvPV\_flags[5.007002]\|p
SvPV\_force\_flags\_mutable[5.009003]\|p
SvPV\_force\_flags\_nolen[5.009003]\|p
SvPV\_force\_flags[5.007002]\|p
SvPV\_force\_mutable[5.009003]\|p
SvPV\_force\_nolen[5.009003]\|p
SvPV\_force\_nomg\_nolen[5.009003]\|p
SvPV\_force\_nomg[5.007002]\|p
SvPV\_force[3]|p
SvPV\_mutable[5.009003]\|p
SvPV\_nolen\_const[5.009003]\|p
SvPV\_nolen[5.006000]\|p
SvPV\_nomg\_const\_nolen[5.009003]\|p
SvPV\_nomg\_const[5.009003]\|p
SvPV\_nomg[5.007002]\|p
SvPV\_renew[5.009003]\|p
SvPV\_set[3]|p
SvP\_byte\_force[5.009002]|p
SvP\_byte\_nolen[5.006000]|p
SvP\_byte\_x\_force[5.006000]|p
SvP\_byte[5.006000]|p
SvP\_utf8\_force[5.006000]|p
SvP\_utf8\_nolen[5.006000]|p
SvP\_utf8\_x\_force[5.006000]|p
SvP\_utf8[5.006000]|p
SvP\_utf8[5]|p
SvP\_x[3]|p
SvP[3]|p
SvREFCNT\_dec[3]|p
SvREFCNT\_inc\_NN[5.009004]|p
SvREFCNT\_inc\_simple\_NN[5.009004]|p
SvREFCNT\_inc\_simple\_void\_NN[5.009004]|p
SvREFCNT\_inc\_simple\_void[5.009004]|p
SvREFCNT\_inc\_simple[5.009004]|p
SvREFCNT\_inc\_void\_NN[5.009004]|p
SvREFCNT\_inc\_void[5.009004]|p
SvREFCNT\_inc[5.009004]|p
SvREFCNT[3]|p
SvROK\_off[3]|p
SvROK\_on[3]|p
SvROK[3]|p
SvRV\_set[5.009003]|p
SvRV[3]|p
apply
atfork_lock
atfork_unlock
av_arylen_p
av_clear
av_create_and_push
av_create_and_unshift_one
av_delete
av_exists
av_extend
av_fetch
av_fill
av_iter_p
av_len
av_make
av_pop
av_push
av_reify
av_shift
av_store
av_undef
av_unshift
ax
bad_type
bind_match
bind_match
block_end
block_gimme
boolSV
boot_core_PerlIO
boot_core_UNIVERSAL
boot_core_mro
bytes_from_utf8
bytes_to_uni
bytes_to_utf8
call_argv
call_atexit
call_list
call_method
call_pv
call_sv
calloc
cando
cast_i32
cast_iv
cast_ulong
cast_uv
cast_type_and_open
check_uni||
checkcomma||
checkposixcc||
ckWARN|5.006000||p
ck_anoncode||
ck_bitop||
ck_concat||
ck_defined||
ck_delete||
ck_die||
ck_each||
ck_eof||
ck_eval||
ck_exec||
ck_exists||
ck_exit||
ck_ftst||
ck_fun||
ck_glob||
ck_grep||
ck_index||
ck_join||
ck_frun||
ck_listiof||
ck_match||
ck_method||
ck_null||
ck_open||
ck_readline||
ck_repeat||
ck_require||
ck_return||
ck_rfun||
ck_rvconst||
ck_sassign||
ck_select||
ck_shift||
ck_sort||
ck_spair||
ck_split||
ck_subr||
ck_substr||
ck_svconst||
ck_trunc||
ck_unpack||
ckwarn_d|5.009003|
ckwarn|5.009003|
cl_and|n
deb_nocontext||vn
deb_stack_all||
deb_stack_0||
debop||[5.005000]
debprofdump||[5.005000]
debprof|||
debstackptrs||[5.007003]
debstack||[5.007003]
debug_start_match|||
deb||[5.007003]
del_sv|||
delete_eval_scope||
delimcpy||[5.004000]
deprecate_old|||
deprecate|||
despatch_signals||[5.007001]
destroy_matcher|||
die_nocontext||vn
die_where|||
diel||v
dirp_dup|||
div128|||
djSP|||
do_aexec5|||
do_aexec|||
do_aspawn|||
do_binmode||[5.004050]
do_chomp|||
do_chop|||
do_close|||
do_dump_pad|||
do_eof|||
do_exec3|||
do_execfree|||
do_exec|||
do_gv_dump||[5.006000]
do_gvvgv_dump||[5.006000]
do_hv_dump||[5.006000]
do_ipcctl|||
do_ipcget|||
do_join|||
do_kv|||
do_magic_dump||[5.006000]
do_msgrecv|||
do_msgsnd|||
do_oddball|||
do_op_dump||[5.006000]
do_op_xmldump|||
hv_fetchs|5.009003||p
hv_fetch||
hv_free_ent|5.004000|
hv_iterinit||
hv_iterkeysv|5.004000|
hv_iterkey||
hv_iternext_flags|5.008000|
hv_iternextsv||
hv_iternext||
hv_iterval||
hv_kill_backrefs||
hv_ksplit|5.004000|
hv_magic_check||n
hv_magic||
hv_name_set|5.009003|
hv_notallowed||
hv_placeholders_get|5.009003|
hv_placeholders_p|5.009003|
hv_placeholders_set|5.009003|
hv_riter_p|5.009003|
hv_riter_set|5.009003|
hv_scalar|5.009001|
hv_store_ent|5.004000|
hv_store_flags|5.008000|
hv_stores|5.009004||p
hv_store||
hv_undef||
ibcmp_locale|5.004000|
ibcmp_utf8|5.007003|
ibcmp||
incline||
incpush_if_exists||
incpush_use_sep||
incpush||
ingroup||
init_argv_symbols||
init_debugger||
init_global_struct||
init_i18n10h|5.006000|
init_i18n14n|5.006000|
init_ids||
init_interp||
init_main_stash||
init_perllib||
init_postdump_symbols||
init_predump_symbols||
init_stacks|5.005000|
init_tm|5.007002|
mode_from_discipline
modkids
mod
more_bodies
more_sv
moreswitches
mro_get_from_name
mro_get_linear_isa_dfs
mro_get_linear_isa
mro_get_private_data
mro_isa_changed_in
mro_meta_dup
mro_meta_init
mro_method_changed_in
mro_register
mro_set_mro
mro_set_private_data
mul128
mulexp10
my_atof2
my_atof
my_atrs
my_bcopy
my_betoh16
my_betoh32
my_betoh64
my_betohi
my_betohl
my_betols
my_bzero
my_chsize
my_clearenv
my_ctxt_index
my_ctxt_init
my_dirfd
my_exit_jump
my_exit
my_failure_exit
my_fflush_all
my_fork
my_htobe16
my_htobe32
my_htobe64
my_htobei
my_htobel
my_htobes
my_htole16
my_htole32
my_htole64\nmy_htolei\nmy_htolel\nmy_htoles\nmy_htonl\nmy_kid\nmy_letoh16\nmy_letoh32\nmy_letoh64\nmy_letohi\nmy_letohl\nmy_letohs\nmy_lstat\nmy_memcmp[5.004000]\nmy_memset[5.004000]\nmy_ntohl\nmy_pclose[5.004000]\nmy_popen_list[5.007001]\nmy_popen[5.004000]\nmy_setenv\nmy_snprintf[5.009004]\nmy_socketpair[5.007003]\nmy_sprintf[5.009003]\nmy_stat\nmy_strftime[5.007002]\nmy_strlcat[5.009004]\nmy_strlcpy[5.009004]\nmy_swapn\nmy_swap\nmy_unexec\nmy_vsnprintf[5.009004]\nneed_utf8[5.004000]\nnewANONATTRSUB[5.006000]\nnewANONHASH\nnewANONLIST\nnewANONSUB\nnewASSIGNOP\nnewATTRSUB[5.006000]\nnewAVREF\nnewAV\nnewBINOP\nnewCONDOP\nnewCONSTSUB[5.004050]\nnewCVREF\nnewDEFSVOP\nnewFORM\nnewFOROP\nnewGIVENOP[5.009003]
packWARN
pack_cat
pack_rec
package
packlist
pad_add_anon
pad_add_name
pad_alloc
pad_block_start
pad_check_dup
pad_comppname_type
pad_findlex
pad_findmy
pad_fixup_inner_anons
pad_free
pad_leavemy
pad_new
pad_peg
pad_push
pad_reset
pad_setsv
pad_sv
pad_swipe
pad_tidy
pad_UNDEF
parse_body
parse_unicode_opts
parser_dup
parser_free
path_is_absolute
peep
pending_Slabs_to_ro
perl_alloc_using
perl_alloc
perl_clone_using
perl_clone
perl_construct
perl_destruct
perl_free
perl_parse
perl_run
pidgone
pm_description
pmflag
pmop_dump
pmop_xmlldump
pmruntime
pmtrans
pop_scope
pregcomp
pregexec
pregfree2
pregfree
prepend_elem
prepend_madprops
printf_nocontext
process_special_blocks
ptr_table_clear
ptr_table_fetch
ptr_table_find
ptr_table_free
ptr_table_new
ptr_table_split
ptr_table_store
push_scope
put_byte
pv_display
pv_escape
pv_pretty
pv_uni_display
qerror
qsortsvu
re_compile
re_croak2
re_dup_guts
re_intuit_start
re_intuit_string
readpipe_override
realloc
reentrant_free
reentrant_init
reentrant_retry
reentrant_size
ref_array_or_hash
refcounted_he_chain_2hv
refcounted_he_fetch
refcounted_he_free
refcounted_he_new_common
refcounted_he_new
refcounted_he_value
refkids
refto
ref[5.011000]
reg_check_named_buff_matched
reg_named_buff_all[5.009005]
taint_env

taint_proper

tmps_grow[5.006000]
toLOWER

toUPPER

to_byte_substr

to_uni_fold[5.007003]
to_uni_lower_le[5.006000]
to_uni_lower[5.007003]
to_uni_title_le[5.006000]
to_uni_title[5.007003]
to_uni_upper_le[5.006000]
to_uni_upper[5.007003]
to_utf8_case[5.007003]
to_utf8_fold[5.007003]
to_utf8_lower[5.007003]
to_utf8_substr

to_utf8_title[5.007003]
to_utf8_upper[5.007003]
token_free

tokenize_use

tokeq

tokereport

too_few_arguments

too_many_arguments

tuv_2buf

unlnk

unpack_rec

unpack_str[5.007003]
unpackstring[5.008001]
unshare_hek_or_pvn

unshare_hek

unsharepvn[5.004000]
unwind_handler_stack

update_debugger_info

upg_version[5.009005]
usage

utf16_to_utf8_reversed[5.006001]
utf16_to_utf8[5.006001]
utf8_distance[5.006000]
utf8_hop[5.006000]
utf8_length[5.007001]
utf8_mg_pos_cache_update

utf8_to_bytes[5.006001]
utf8_to_unicode[5.007001]
utf8_to_utf8[5.007001]
);
if (exists $opt{'list-unsupported'}) {
my $f;
for $f (sort { lc $a cmp lc $b } keys %API) {
next unless $API{$f}{todo};
print "$f ", '.'x(40-length($f)), " ", format_version($API{$f}{todo}), "\n";
}
exit 0;
}
# Scan for possible replacement candidates
my(%replace, %need, %hints, %warnings, %depends);
my $replace = 0;
my($hint, $define, $function);
sub find_api
{
my $code = shift;
$code =~ s{
/ (?: \*[^*]*\*+(?:[^$ccs][^*]*\*+)* / | /[^\r\n]*)
| "[^"\\]*(?:\\.[^"\\]*)*"
| '[^'\\]*(?:\\.[^'\\]*)*' }{}egsx;
grep { exists $API{$_} } $code =~ /(\w+)/mg;
}
while (<DATA>) {
if ($hint) {
my $h = $hint->[0] eq 'Hint' ? \%hints : \%warnings;
if (m{^\s*\*\s(.*?)\s*$}) {
for (@{$hint->[1]}) {
$h->{$_} ||= ''; # suppress warning with older perls
$h->{$_} .= "$1\n";
}
}
else { undef $hint }
}
$hint = [$1, [split /,?\s+/, $2]]
if m{^\s*$rccs\s+(Hint|Warning):\s+(\w+(?:,?\s+\w+)*)\s*$};
if ($define) {
if ($define->[1] =~ /\\$/) {
$define->[1] .= $_;
}
else {
if (exists $API{$define->[0]} && $define->[1] !~ /^DPPP_\(/) {

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my @n = find_api($define->[1]);
push @{$depends{$define->[0]}}, @n if @n
} undef $define;
}

$define = [$1, $2] if m{^\s*\$define\s+\(\w+\)?\(\[^\)]*\)\?\s+\(\.*\)?\s+.*};

if ($function) {
  if (/^\$/) {
    if (exists $API{$function->[0]}) {
      my @n = find_api($function->[1]);
push @{$depends{$function->[0]}}, @n if @n
    } undef $function;
  } else {
    $function->[1] .= $_;
  }
}

$function = [$1, ""] if m{^DPPP_\(my_\(\w+\)\);};

$replace     = $1 if m{^\s*$rccs\s+Replace:\s+\(\*d+\)\s+\$rcce\s+\$};
$replace{2} = $1 if $replace and m{^\s*\$define\s+\(\w+\)?\(\[^\)]*\)\?\s+(\w+)\s+.*\$rcce\s+\$rcce\s+\$};
$replace{1} = $2 if m{^\s*$rccs\s+Replace \s+\(\w+\) with \(\w+\)\s+\$rcce\s+\$};

if (m{^\s*$rccs\s+\(\w+\)?\(\w+\)\s+\s+\s+\$rcce\s+\$}) {
  my @dps = map { s/\s+//g; $_ } split /,; $3;
  my $d;
  for $d (map { s/\s+//g; $_ } split /,; $1) {
push @{$depends{$d}}, @dps;
  }
}

$need{1} = 1 if m{^\s*$defined\(\NEED_\(\w+\)?\:GLOBAL\)?\s+\$};
}

for (values %depends) {
  my %s;
  $_ = [sort grep !$s{$_}++, @$$_];
}

if (exists $opt{'api-info'}) {
  my $f;
  my $count = 0;

my $match = $opt{'api-info'} =~ m!^/(.*)/$! ? $1 : "$opt{'api-info'}";
for $f (sort { lc $a cmp lc $b } keys %API) {
    next unless $f =~ /$match/;
    my $info = 0;
    if ($API{$f}{base} || $API{$f}{todo}) {
        my $base = format_version($API{$f}{base} || $API{$f}{todo});
        print "Supported at least starting from perl-$base\n";
        $info++;
    }
    if ($API{$f}{provided}) {
        my $todo = $API{$f}{todo} ? format_version($API{$f}{todo}) : "5.003";
        print "Support by $ppport provided back to perl-$todo\n";
        print "Support needs to be explicitly requested by NEED_$f\n" if exists $need{$f};
        print "Depends on: \n", join(\n", \n", $depends{$f}) if exists $depends{$f};
        print "\nWARNING:\n\nwarnings[$f]" if exists $warnings{$f};
        $info++;
    }
    print "No portability information available.\n" unless $info;
    $count++;
}
$count or print "Found no API matching '$opt{'api-info'}'.";
exit 0;
}

if (exists $opt{'list-provided'}) {
    my $f;
    for $f (sort { lc $a cmp lc $b } keys %API) {
        next unless $API{$f}{provided};
        my @flags;
        push @flags, 'explicit' if exists $need{$f};
        push @flags, 'depend'   if exists $depends{$f};
        push @flags, 'hint'     if exists $hints{$f};
        push @flags, 'warning'  if exists $warnings{$f};
        my $flags = @flags ? '\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\nThe use of Open Source Software (OSS) for network and internet technology, cloud computing, and software-defined networking is widespread. OSS offers benefits such as cost savings, community support, and flexibility, but it also introduces risks such as security vulnerabilities and legal issues.

The Cisco Cloud Mailbox Defense (CMD) Project Raptor, released in April 2021, is an open-source solution designed to enhance email security. The project focuses on several key areas:

- **Security**: Enhances email security by detecting and blocking malicious content.
- **Scalability**: Designed to handle large volumes of email traffic efficiently.
- **Integration**: Integrates seamlessly with Cisco's cloud-based email services.
- **Cost-Effective**: Reduces costs associated with traditional email security solutions.

The CMD project makes use of various open-source components to achieve these goals. Here are some of the key components used:

- **Apache** - A web server software used for delivering web content.
- **MySQL** - A popular open-source relational database management system.
- **NGINX** - A powerful web server and reverse proxy server.
- **GeoIP** - A tool for GeoIP lookup, used for location-based services.

By leveraging these open-source technologies, CMD provides a robust and flexible email security solution that can be customized to meet specific organizational needs.

In conclusion, the use of open-source software in the CMD project demonstrates the importance of collaborative efforts in advancing technology, particularly in the realm of email security. It highlights how open-source solutions can be leveraged to create secure, scalable, and cost-effective email security solutions, enhancing the overall security posture of organizations.
for (@ARGV) {
if (-e) {
if (-f) {
push @files, $_ unless $seen{$_}++;
}
else { warn "'$_' is not a file.\n" }
}
else {
my @new = grep { -f } glob $_
or warn "'$_' does not exist.\n";
push @files, grep { !$seen{$_}++ } @new;
}
}
}
else {
eval {
require File::Find;
File::Find::find(sub {
$File::Find::name =~ /($srcext)$/i
and push @files, $File::Find::name;
}, '.');
};
if ($@) {
@files = map { glob "*$_" } @srcext;
}
}
if (!@ARGV || $opt{filter}) {
my(@in, @out);
my %xsc = map { /(.*)\.xs$/ ? ("$1.c" => 1, "$1.cc" => 1) : () } @files;
for (@files) {
my $out = exists $xsc{$_} || /\b\Q$ppport\E$/i || !/($srcext)$/i;
push @{ $out ? \@out : \@in }, $_;
}
if (@ARGV && @out) {
warning("Skipping the following files (use --nofilter to avoid this):\n| ", join "\n| ", @out);
}
@files = @in;
}
die "No input files given!\n" unless @files;
my(%files, %global, %revreplace);
%revreplace = reverse %replace;
my $filename;
my $patch_opened = 0;
for $filename (@files) {

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unless (open IN, "<$filename") {
warn "Unable to read from $filename: $!\n";
next;
}
info("Scanning $filename ...");
my $c = do { local $/; <IN> };
close IN;
my %file = (orig => $c, changes => 0);
# Temporarily remove C/XS comments and strings from the code
my @ccom;
$c =~ s{
( ^$HS*\#$HS*include\b[^\r\n]+\b(?:\Q$ppport\E|XSUB\.h)\b[^\r\n]*
| ^$HS*\#$HS*(?:define|elif|if(?:def)?)\b[^\r\n]* )
| ( ^$HS*\#[^\r\n]*
| "[^"\\]*(?:\\.[^"\\]*)*"
| '[^'\\]*(?:\\.[^'\\]*)*'
| / (?: \*[^*]*\*+(?:[^$ccs][^*]*\*+)* / | /[^\r\n]* ) )
}{ defined $2 and push @ccom, $2;
defined $1 ? $1 : "$ccs$#ccom$cce" }mgsex;
$file{ccom} = \@ccom;
$file{code} = $c;
$file{has_inc_ppport} = $c =~ /^$HS*#$HS*include[^\r\n]+\b\Q$ppport\E\b/m;
my $func;
for $func (keys %API) {
my $match = $func;
$match .= "|$revreplace{$func}" if exists $revreplace{$func};
if ($c =~ /\b(?:Perl_)?($match)\b/) {
$file{uses_replace}{$1}++ if exists $revreplace{$func} && $1 eq $revreplace{$func};
$file{uses_Perl}{$func}++ if $c =~ /\bPerl_$func\b/;
if (exists $API{$func}{provided}) {
$file{uses_provided}{$func}++;
if (!exists $API{$func}{base} || $API{$func}{base} > $opt{'compat-version'}) {
$file{uses}{$func}++;
my @deps = rec_depend($func);
if (@deps) {
$file{uses_deps}{$func} = \@deps;
for (@deps) {
$file{uses}{$_} = 0 unless exists $file{uses}{$_};
}
}

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for ($func, @deps) {
$file{needs}{$_} = 'static' if exists $need{$_};
}
}
}
if (exists $API{$func}{todo} && $API{$func}{todo} > $opt{'compat-version'}) {
if ($c =~ /\b$func\b/) {
$file{uses_todo}{$func}++;
}
}
}
}
while ($c =~ /^$HS*#$HS*define$HS+(NEED_(\w+?)(_GLOBAL)?)\b/mg) {
if (exists $need{$2}) {
$file{defined $3 ? 'needed_global' : 'needed_static'}{$2}++;
}
else { warning("Possibly wrong #define $1 in $filename") }
}
for (qw(uses needs uses_todo needed_global needed_static)) {
for $func (keys %{$file{$_}}) {
push @{$global{$_}{$func}}, $filename;
}
}
$files{$filename} = \%file;
}
# Globally resolve NEED_'s
my $need;
for $need (keys %{$global{needs}}) {
if (@{$global{needs}{$need}} > 1) {
my @targets = @{$global{needs}{$need}};
my @t = grep $files{$_}{needed_global}{$need}, @targets;
@targets = @t if @t;
@t = grep /\.xs$/i, @targets;
@targets = @t if @t;
my $target = shift @targets;
$files{$target}{needs}{$need} = 'global';
for (@{$global{needs}{$need}}) {
$files{$_}{needs}{$need} = 'extern' if $_ ne $target;
}
}
}
for $filename (@files) {
exists $files{$filename} or next;

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info("=== Analyzing $filename ===");

my %file = %{$files{$filename}};
my $func;
my $c = $file{code};
my $warnings = 0;

for $func (sort keys %{$file{uses_Perl}}) {
    if ($API[$func]{varargs}) {
        unless ($API[$func]{nothxarg}) {
            my $changes = ($c =~ s{(Perl_$func\(\s*([!aTHX_]*\)?\(?!aTHX_)?\$\)[!aTHX_]*\)}{$1 . ($2 eq ')' ? 'aTHX' : 'aTHX_') . $2 }ge);
            if ($changes) {
                warning(" Doesn't pass interpreter argument aTHX to Perl_$func");
                $file{changes} += $changes;
            }
        }
    } else {
        warning(" Uses Perl_$func instead of $func");
        $file{changes} += ($c =~ s{Perl_$func\(\s*(?!aTHX_)?\$\)}{$func$1(}g);
    }
}

for $func (sort keys %{$file{uses_replace}}) {
    warning(" Uses $func instead of $replace{$func}");
    $file{changes} += ($c =~ s/$func/$replace{$func}/g);
}

for $func (sort keys %{$file{uses_provided}}) {
    if ($file{uses}{$func}) {
        if (exists $file{uses_deps}{$func}) {
            diag("Uses $func, which depends on ", join(' ', @{$file{uses_deps}{$func}}));
        } else {
            diag("Uses $func");
        }
    }
    $warnings += hint($func);
}

unless ($opt{quiet}) {
    for $func (sort keys %{$file{uses_todo}}) {
        print "*** WARNING: Uses $func, which may not be portable below perl ",
            format_version($API[$func]{todo}), ", even with "ppport\n";
        $warnings++;
    }
}
for $func (sort keys %{$file{needed_static}}) {
    my $message = ""
    if (not exists $file{uses}[$func]) {
        $message = "No need to define NEED_$func if $func is never used";
    } elsif (exists $file{needs}[$func] && $file{needs}[$func] ne 'static') {
        $message = "No need to define NEED_$func when already needed globally";
    } if ($message) {
        diag($message);
        $file{changes} += ($c =~ s/^$HS*#$HS*define$HS+NEED_$func\b.*$LF//mg);
    }
}

for $func (sort keys %{$file{needed_global}}) {
    my $message = ""
    if (not exists $global{uses}[$func]) {
        $message = "No need to define NEED_${func}_GLOBAL if $func is never used";
    } elsif (exists $file{needs}[$func]) {
        if ($file{needs}[$func] eq 'extern') {
            $message = "No need to define NEED_${func}_GLOBAL when already needed globally";
        } elsif ($file{needs}[$func] eq 'static') {
            $message = "No need to define NEED_${func}_GLOBAL when only used in this file";
        } if ($message) {
            diag($message);
            $file{changes} += ($c =~ s/^$HS*#$HS*define$HS+NEED_${func}_GLOBAL\b.*$LF//mg);
        }
    }
    $file{needs_inc_ppport} = keys %{$file{uses}};
    if ($file{needs_inc_ppport}) {
        my $pp = ":
        for $func (sort keys %{$file{needs}}) {
            my $type = $file{needs}[$func];
            next if $type eq 'extern';
            my $suffix = $type eq 'global' ? '_GLOBAL' : "";
            unless (exists $file{"needed_$type"}[$func]) {
                if ($type eq 'global') {
                    diag("Files @ @{$global{needs}[$func]} need $func, adding global request");
                }
            }
        }
    }
}
else {
    diag("File needs $func, adding static request");
}
$pp .= 
#define NEED_$func$suffix
;
}
}

if ($pp && ($c =~ s/^(?=$HS*#$HS*define$HS+NEED_\w+)/(Spp/m)) {
    $pp = ";
    $file{changes}++;
}

unless ($file{has_inc_ppport}) {
    diag("Needs to include '$ppport'");
    $pp := qq(#include "$ppport"
)
}

if ($pp) {
    $file{changes} += ($c =~ s/^($HS*#$HS*define$HS+NEED_\w+.*?)/$1$pp/ms)
        || ($c =~ s/^($HS*#$HS*include.*$ppport\E)/$pp/m)
        || ($c =~ s/^($HS*#$HS*include.*XSUB.*$s*/$1$pp/m)
        || ($c =~ s/^/$pp/);
}
else {
    if ($file{has_inc_ppport}) {
        diag("No need to include '$ppport'");
        $file{changes} += ($c =~ s/^$HS*?#$HS*include.*$ppport\E.*?$LF//m);
    }
}

# put back in our C comments
my $ix;
my $cppc = 0;
my @ccom = @{$file{ccom}};
for $ix (0 .. $#ccom) {
    if (!$opt{cplusplus} && $ccom[$ix] =~ s!^//!!) {
        $cppc++;
        $file{changes} += $c =~ s/$rccs$ix$rcce/$ccs$ccom[$ix] $cce/;
    }
    else {
        $c =~ s/$rccs$ix$rcce/$ccom[$ix]/;
    }
}

if ($cppc) {
    my $s = $cppc != 1 ? 's' : ";

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warning("Uses $cppc C++ style comment$s, which is not portable");
}

my $s = $warnings != 1 ? 's' : '';
my $warn = $warnings ? " ($warnings warning$s)" : '';
info("Analysis completed$warn");

if ($file{changes}) {
  if (exists $opt{copy}) {
    my $newfile = "$filename$opt{copy}";
    if (-e $newfile) {
      error("$newfile' already exists, refusing to write copy of 'filename'");
    }
    else {
      local *F;
      if (open F, "$newfile") {
        info("Writing copy of 'filename' with changes to '$newfile';
        print F $c;
        close F;
      }
      else {
        error("Cannot open '$newfile' for writing: $!");
      }
    }
  }
  elsif (exists $opt{patch} || $opt{changes}) {
    if (exists $opt{patch}) {
      unless ($patch_opened) {
        if (open PATCH, "$opt{patch}")) {
          $patch_opened = 1;
        }
        else {
          error("Cannot open '$opt{patch}' for writing: $!");
          delete $opt{patch};
          $opt{changes} = 1;
          goto fallback;
        }
      }
      mydiff(*PATCH, $filename, $c);
    }
    else {
      fallback:
      info("Suggested changes; ");
      mydiff(*STDOUT, $filename, $c);
    }
  }
  else {
    my $s = $file{changes} == 1 ? '' : 's';
info("$file{changes} potentially required change$s detected");

} else {
    info("Looks good");
}
}

close PATCH if $patch_opened;

exit 0;

sub try_use { eval "use @_; return $@ eq " }

sub mydiff
{
    local *F = shift;
    my($file, $str) = @_;
    my $diff;

    if (exists $opt{diff}) {
        $diff = run_diff($opt{diff}, $file, $str);
    }

    if (!defined $diff and try_use('Text::Diff')) {
        $diff = Text::Diff::diff($file, $str, { STYLE => 'Unified' });
        $diff = <<HEADER . $diff;
        --- $file
        +++ $file.patched
        HEADER
    }

    if (!defined $diff) {
        $diff = run_diff('diff -u', $file, $str);
    }

    if (!defined $diff) {
        $diff = run_diff('diff', $file, $str);
    }

    if (!defined $diff) {
        error("Cannot generate a diff. Please install Text::Diff or use --copy.");
        return;
    }

    print F $diff;
}
sub run_diff
{
    my($prog, $file, $str) = @_;  
    my $tmp = 'dpptemp';
    my $suf = 'aaa';
    my $diff = ";
    local *F;

    while (-e "$tmp.$suf") { $suf++ }
    $tmp = "$tmp.$suf";

    if (open F, ">$tmp") {
        print F $str;
        close F;

        if (open F, "$prog $file $tmp |") {
            while (<F>) {
                s/\Q$tmp\E/$file.patched/;
                $diff .= $_;
            }
            close F;
            unlink $tmp;
            return $diff;
        }
        unlink $tmp;
    }
    else {
        error("Cannot open '$tmp' for writing: $!");
    }
    return undef;
}

sub rec_depend
{
    my($func, $seen) = @_;  
    return () unless exists $depends{$func};
    $seen = ( %{$seen||{}} );
    return () if $seen->{$func}++;
    my %s;
    grep !s($._++)++, map { ($_. rec_depend($_. $seen)) } @{$depends{$func}};
}

sub parse_version
{
    my $ver = shift;

if ($ver =~ /^\d+\.\d+\.\d+$/) {
    return ($1, $2, $3);
}
elsif ($ver !~ /^\d+\[\d_]+$/) {
    die "cannot parse version '$ver'\n";
}

$ver =~ s/_//g;
$ver =~ s/$/000000/;

my($r,$v,$s) = $ver =~ /\d+\d{3}\d{3}/;

$v = int $v;
$s = int $s;

if ($r < 5 || ($r == 5 && $v < 6)) {
    if ($s % 10) {
        die "cannot parse version '$ver'\n";
    }
}

return ($r, $v, $s);

sub format_version {
    my $ver = shift;

    $ver =~ s/$/000000/;
    my($r,$v,$s) = $ver =~ /\d+\d{3}\d{3}/;

    $v = int $v;
    $s = int $s;

    if ($r < 5 || ($r == 5 && $v < 6)) {
        if ($s % 10) {
            die "invalid version '$ver'\n";
        }
        $s /= 10;

        $ver = sprintf "%.3d", $r, $v;
        $s > 0 and $ver .= sprintf "_%02d", $s;

        return $ver;
    }

    return sprintf "%.d%.d%.d", $r, $v, $s;
}
open OUT, ">$0" or die "cannot strip $0: $!
";
print OUT "$pl$c
"
exit 0;
}

__DATA__
*/

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---
abstract: unknown
author:
- unknown
build_requires:
  ExtUtils::MakeMaker: 0
configure_requires:
  ExtUtils::MakeMaker: 0
dynamic_config: 1
generated_by: 'ExtUtils::MakeMaker version 6.68, CPAN::Meta::Converter version 2.112621'
license: unknown
meta-spec:
  url: http://module-build.sourceforge.net/META-spec-v1.4.html
  version: 1.4
name: Storable
no_index:
directory:
  - t
  - inc
requires:
  XSLoader: 0
resources:
  bugtracker: http://rt.perl.org/perlbug/
  version: 2.45

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Test::More is B<explicitly> tested all the way back to perl 5.004.

Test::More is thread-safe for perl 5.8.0 and up.

=head1 BUGS and CAVEATS

=over 4

=item Making your own ok()

If you are trying to extend Test::More, don't. Use Test::Builder instead.

=item The eq_* family has some caveats.

=item Test::Harness upgrades

no_plan and todo depend on new Test::Harness features and fixes. If you're going to distribute tests that use no_plan or todo your end-users will have to upgrade Test::Harness to the latest one on CPAN. If you avoid no_plan and TODO tests, the stock Test::Harness will work fine.

If you simply depend on Test::More, it's own dependencies will cause a Test::Harness upgrade.

=back

=head1 HISTORY

This is a case of convergent evolution with Joshua Pritikin's Test
module. I was largely unaware of its existence when I'd first written my own ok() routines. This module exists because I can't figure out how to easily wedge test names into Test's interface (along with a few other problems).

The goal here is to have a testing utility that's simple to learn, quick to use and difficult to trip yourself up with while still providing more flexibility than the existing Test.pm. As such, the names of the most common routines are kept tiny, special cases and magic side-effects are kept to a minimum. WYSIWYG.

=head1 SEE ALSO

L<Test::Simple> if all this confuses you and you just want to write some tests. You can upgrade to Test::More later (it's forward compatible).

L<Test::Differences> for more ways to test complex data structures. And it plays well with Test::More.

L<Test> is the old testing module. Its main benefit is that it has been distributed with Perl since 5.004_05.

L<Test::Harness> for details on how your test results are interpreted by Perl.

L<Test::Unit> describes a very featureful unit testing interface.

L<Test::Inline> shows the idea of embedded testing.

L<SelfTest> is another approach to embedded testing.

=head1 AUTHORS

Michael G Schwern E<lt>schwern@pobox.comE<gt> with much inspiration from Joshua Pritikin's Test module and lots of help from Barrie Slaymaker, Tony Bowden, chromatic and the perl-qa gang.

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Storable 2.14
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The Storable extension brings persistence to your data.

You may recursively store to disk any data structure, no matter how complex and circular it is, provided it contains only SCALAR, ARRAY, HASH (possibly tied) and references (possibly blessed) to those items.

At a later stage, or in another program, you may retrieve data from the stored file and recreate the same hierarchy in memory. If you had blessed references, the retrieved references are blessed into the same package, so you must make sure you have access to the same perl class than the one used to create the relevant objects.

There is also a dclone() routine which performs an optimized mirroring of any data structure, preserving its topology.

Objects (blessed references) may also redefine the way storage and retrieval is performed, and/or what deep cloning should do on those objects.
To compile this extension, run:

    perl Makefile.PL [PERL_SRC=...where you put perl sources...]
    make
    make install

There is an embedded POD manual page in Storable.pm.

Storable was written by Raphael Manfredi <Raphael_Manfredi@pobox.com>
Maintenance is now done by the perl5-porters <perl5-porters@perl.org>

Please e-mail us with problems, bug fixes, comments and complaints,
although if you have complements you should send them to Raphael.
Please don't e-mail Raphael with problems, as he no longer works on
Storable, and your message will be delayed while he forwards it to us.

------------------------------------------------------------------------

Thanks to (in chronological order):

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  Justin Banks <justinb@wamnet.com>
  Jarkko Hietaniemi <jhi@iki.fi> (AGAIN, as perl 5.7.0 Pumpkin!)

for their contributions.

A Japanese translation of this man page is available at the Japanized

------------------------------------------------------------------------

The perl5-porters would like to thank

  Raphael Manfredi <Raphael_Manfredi@pobox.com>

According to the perl5.8 Changes file, the following people have helped
bring you this Storable release:

  Abhijit Menon-Sen <ams@wiw.org>
  Andreas J. Koenig <andreas.koenig@anima.de>
  Archer Sully <archer@meer.net>
If I've missed you out, please accept my apologies, and e-mail your
patch to perl5-porters@perl.org.

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=head1 THREADS

In perl 5.8.0 and later, Test::Builder is thread-safe. The test
number is shared amongst all threads. This means if one thread sets
the test number using current_test() they will all be effected.

=head1 EXAMPLES

CPAN can provide the best examples. Test::Simple, Test::More,
Test::Exception and Test::Differences all use Test::Builder.

=head1 SEE ALSO

Test::Simple, Test::More, Test::Harness

=head1 AUTHORS

Original code by chromatic, maintained by Michael G Schwern
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```
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1.1717 libnetfilter-conntrack 1.0.6-1.amzn2.0.2

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The of the start-stop-daemon

* A rewrite of the original Debian's start-stop-daemon Perl script
* in C (faster - it is executed many times during system startup).
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1.1722 mime-types 2.1.27

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c) Convey individual copies of the object code with a copy of the written offer to provide the Corresponding Source. This alternative is allowed only occasionally and noncommercially, and only if you received the object code with such an offer, in accord with subsection 6b.

d) Convey the object code by offering access from a designated place (gratis or for a charge), and offer equivalent access to the Corresponding Source in the same way through the same place at no further charge. You need not require recipients to copy the Corresponding Source along with the object code. If the place to copy the object code is a network server, the Corresponding Source may be on a different server (operated by you or a third party) that supports equivalent copying facilities, provided you maintain clear directions next to the object code saying where to find the Corresponding Source. Regardless of what server hosts the Corresponding Source, you remain obligated to ensure that it is available for as long as needed to satisfy these requirements.

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A separable portion of the object code, whose source code is excluded from the Corresponding Source as a System Library, need not be included in conveying the object code work.

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==================

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``` sh
find_textfiles -nosvn -novc -noeclipse | xargs grep -i -L Copyright (See the find_textfiles Perl script attached to this page.) There are files without word "Copyright" in ICU source repository including some test data files (no comment syntax defined for these test data files), Unicode data files, tzcode source files and others. Review the output file list and determine if each of them should have ICU copyright statement or not.~
```

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See [svn changeset r39632](https://github.com/unicode-
org/icu/commit/0001f6c5e92f6f3a8d66c7dbc47cc24df7633a71)
for an example: there should be only two files to update.

```makefile
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## Flags for position independent code
SHAREDLIBCFLAGS = -fPIC
SHAREDLIBCXXFLAGS = -fPIC
SHAREDLIBCPPFLAGS = -DPIC

## Additional flags when building libraries and with threads
THREADSCPPFLAGS = -D_REENTRANT
LIBCPPFLAGS =

## Compiler switch to embed a runtime search path
LD_RPATH=
LD_RPATH_PRE=-Wl,-rpath,

## Compiler switch to embed a library name
LD_SONAME = -Wl,-soname -Wl,$(notdir $(MIDDLE_SO_TARGET))

## Shared library options
LD_SOOPTIONS= -Wl,-Bsymbolic

## Shared object suffix
SO = so
## Non-shared intermediate object suffix
STATIC_O = ao

## Compilation rules
%.$(STATIC_O): $(srcdir)/%.c
```
$(COMPILE.c) $(STATICCPPFLAGS) $(STATICCFLAGS) -o $@ $<
%: $(srcdir)/%.c
$(COMPILE.c) $(DYNAMICCPPFLAGS) $(DYNAMICCFLAGS) -o $@ $<
%: $(srcdir)/%.cpp
$(COMPILE.cc) $(STATICCPPFLAGS) $(STATICCXXFLAGS) -o $@ $<
%: $(srcdir)/%.cpp
$(COMPILE.cc) $(DYNAMICCPPFLAGS) $(DYNAMICCXXFLAGS) -o $@ $<

## Dependency rules
%: $(srcdir)/%.c
@echo "generating dependency information for $<"
@$(SHELL) -ec "$(GEN_DEPS.c) $< \n | sed 's/(.*)\.o[ :]*/\1.o $@ : /g' > $@; \n [ -s $@ ] || rm -f $@' 
%: $(srcdir)/%.cpp
@echo "generating dependency information for $<"
@$(SHELL) -ec "$(GEN_DEPS.cc) $< \n | sed 's/(.*)\.o[ :]*/\1.o $@ : /g' > $@; \n [ -s $@ ] || rm -f $@' 

## Versioned libraries rules
%.SO.$(SO_TARGET_VERSION_MAJOR): %.SO.$(SO_TARGET_VERSION)
$(RM) $@ && ln -s ${<F} $@
%.SO: %.SO.$(SO_TARGET_VERSION_MAJOR)
$(RM) $@ && ln -s ${*F}.$(SO).$(SO_TARGET_VERSION) $@

## Bind internal references

# LDflags that pkgdata will use
BIR_LDFLAGS= -Wl,-Bsymbolic

# Dependencies [i.e. map files] for the final library
BIR_DEPS=

## Remove shared library 's'
STATIC_PREFIX_WHEN_USED =
STATIC_PREFIX =

## End BSD-specific setup
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== MariaDB ==

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The MariaDB packages were initially made by http://ourdelta.org/, and are now managed by the MariaDB development team, maria-developers@lists.launchpad.net

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### 1.1751 cookie-signature 1.0.6  

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```sh
# cookie-signature

Sign and unsign cookies.

## Example

```js
```js
var cookie = require('cookie-signature');

var val = cookie.sign('hello', 'tobiiscool');
val.should.equal('hello.DGDUkGlIkCzPz+C0B064FNgHdEjox7ch8tOBGsIZ5QI');

var val = cookie.sign('hello', 'tobiiscool');
cookie.unsign(val, 'tobiiscool').should.equal('hello');
cookie.unsign(val, 'luna').should.be.false;
```js
```

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```
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package github

import (    "context"    "fmt"
)

// LicensesService handles communication with the license related // methods of the GitHub API. // GitHub API docs: https://developer.github.com/v3/licenses/ type LicensesService service

// RepositoryLicense represents the license for a repository. type RepositoryLicense struct {    Name *string `json:"name,omitempty"`    Path *string `json:"path,omitempty"`
    SHA  *string `json:"sha,omitempty"`    Size  *int `json:"size,omitempty"`    URL  *string `json:"url,omitempty"`    HTMLURL  *string `json:"html_url,omitempty"`    GitURL  *string `json:"git_url,omitempty"`    DownloadURL *string `json:"download_url,omitempty"`    Type  *string `json:"type,omitempty"`    Content  *string `json:"content,omitempty"`    Encoding  *string `json:"encoding,omitempty"`    License  *License `json:"license,omitempty"`
}

func (l RepositoryLicense) String() string {    return Stringify(l)
}
// License represents an open source license.
type License struct {
    Key  *string `json:"key,omitempty"`
    Name *string `json:"name,omitempty"`
    URL  *string `json:"url,omitempty"`
    SPDXID         *string   `json:"spdx_id,omitempty"`
    HTMLURL        *string   `json:"html_url,omitempty"`
    Featured       *bool     `json:"featured,omitempty"`
    Description    *string   `json:"description,omitempty"`
    Implementation *string   `json:"implementation,omitempty"`
    Permissions    *[]string `json:"permissions,omitempty"`
    Conditions     *[]string `json:"conditions,omitempty"`
    Limitations    *[]string `json:"limitations,omitempty"`
    Body           *string   `json:"body,omitempty"`
}

func (l License) String() string {
    return Stringify(l)
}

// List popular open source licenses.
// GitHub API docs: https://developer.github.com/v3/licenses/#list-all-licenses
func (s *LicensesService) List(ctx context.Context) (*[]License, *Response, error) {
    req, err := s.client.NewRequest("GET", "licenses", nil)
    if err != nil {
        return nil, nil, err
    }

    // TODO: remove custom Accept header when this API fully launches
    req.Header.Set("Accept", mediaTypeLicensesPreview)

    var licenses *[]License
    resp, err := s.client.Do(ctx, req, &licenses)
    if err != nil {
        return nil, resp, err
    }

    return licenses, resp, nil
}

// Get extended metadata for one license.
// GitHub API docs: https://developer.github.com/v3/licenses/#get-an-individual-license
func (s *LicensesService) Get(ctx context.Context, licenseName string) (*License, *Response, error) {
    u := fmt.Sprintf("licenses/%s", licenseName)
```go
req, err := s.client.NewRequest("GET", u, nil)
if err != nil {
    return nil, nil, err
}

// TODO: remove custom Accept header when this API fully launches
req.Header.Set("Accept", mediaTypeLicensesPreview)

license := new(License)
resp, err := s.client.Do(ctx, req, license)
if err != nil {
    return nil, resp, err
}

return license, resp, nil
```

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1.1760 openssl 1.1.1i

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src/arc4random_unix.h
src/closefrom.c
src/getentropy_aix.c
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mpi/hppa1.1/udiv-qrnd.S, mpi/hppa1.1/mpih-mul2.S,
mpi/hppa1.1/mpih-mul1.S, mpi/Makefile.am, tests/prime.c,
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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the
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If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

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If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

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1.1773 free-type 2.8-14.amzn2.1

1.1773.1 Available under license:

```plaintext
# Files that don't get a copyright, or which are taken from elsewhere.
#
# All lines in this file are patterns, including the comment lines; this
# means that e.g. `FTL.TXT' matches all files that have this string in
# the file name (including the path relative to the current directory,
# always starting with `./').
#
# Don't put empty lines into this file!
#
.gitignore
#
builds/unix/pkg.m4
#
docs/FTL.TXT
docs/GPLv2.TXT
#
include/freetype/internal/fhash.h
#
src/base/fhash.c
src/base/md5.c
src/base/md5.h
#
src/bdf/bdf.c
src/bdf/bdf.h
src/bdf/bdfdrivr.c
src/bdf/bdfdrivr.h
src/bdf/bdferror.h
src/bdf/bdflib.c
src/bdf/module.mk
src/bdf/README
src/bdf/rules.mk
#
src/pcf/module.mk
src/pcf/pcf.c
src/pcf/pcf.h
src/pcf/pcfdrivr.c
src/pcf/pcfdrivr.h
src/pcf/pcferror.h
src/pcf/pcfread.c
src/pcf/pcfread.h
src/pcf/pcfuel.c
src/pcf/pcfuel.h
```
src/pcf/README
src/pcf/rules.mk
#
src/gzip/adler32.c
src/gzip/infblock.c
src/gzip/infblock.h
src/gzip/infcodes.c
src/gzip/infcodes.h
src/gzip/inffixed.h
src/gzip/inflate.c
src/gzip/inftrees.c
src/gzip/inftrees.h
src/gzip/infutil.c
src/gzip/infutil.h
src/gzip/zconf.h
src/gzip/zlib.h
src/gzip/zutil.c
src/gzip/zutil.h
#
src/tools/apinames.c
src/tools/ftrandom/ftrandom.c
#
# EOF

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1.1779 findutils 4.6.0+git+20161106-2

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1.1783 screen 4.1.0-
0.27.20120314git3c2946.amzn2

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* DNS resolver (dirmngr/dns.c)

dns.c - Recursive, Reentrant DNS Resolver.

------------------------------------------------------------------------------------------------

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1.1811 rc 1.2.8
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1.1812 ini 1.55.0

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1.1816 shadow 4.4 4.1

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1.1838 decompress-response 4.2.1

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1.1840 to-fast-properties 2.0.0

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"Proprietary",
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var licenseExceptions = []string{
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Gocheck - A rich testing framework for Go

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mgo - MongoDB driver for Go

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2006-2008, Cyril Brulebois <cyril.brulebois@enst-bretagne.fr>

1.1850 grep 3.3 1
1.1850.1 Available under license:

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Eclipse

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* org.eclipse.jetty.orbit:org.eclipse.jdt.core

The following artifacts are EPL and ASL2.
* org.eclipse.jetty.orbit:javax.security.auth.message
The following artifacts are EPL and CDDL 1.0.
* org.eclipse.jetty.orbit:javax.mail.glassfish

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Oracle

The following artifacts are CDDL + GPLv2 with classpath exception.
https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

* javax.servlet:javax.servlet-api
* javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api

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Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following artifacts may be included in the distribution or downloaded when ALPN module is selected.

* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions.
http://openjdk.java.net/legal/gplv2+ce.html

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OW2

The following artifacts are licensed by the OW2 Foundation according to the terms of http://asm.ow2.org/license.html

org.ow2.asm:asm-commons
org.ow2.asm:asm

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Apache

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org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl
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org.mortbay.jasper:apache-jsp
org.apache.tomcat:tomcat-jasper
org.apache.tomcat:tomcat-juli
org.apache.tomcat:tomcat-jsp-api
org.apache.tomcat:tomcat-el-api
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-el-api

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The following artifacts are CDDL + GPLv2 with classpath exception.

https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

org.eclipse.jetty.toolchain:jetty-schemas

Assorted

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<tr>
<th class="pane-header">${%Name}</th>
<th class="pane-header">${%Maven ID}</th>
<th class="pane-header">${%License}</th>
</tr>
<d:invokeBody/>
</table>
</d:tag>
</d:tag name="dependency">
<tr>
<td>
<a href="${attrs.url}">${attrs.name}</a>
</td>
<td>${attrs.groupId}:${attrs.artifactId}:${attrs.version}
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<j:when test="${it.hasLicensesXml()}">
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</j:when>
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<p>${%No information recorded}</p>
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1.1865 sysv-init 2.88dsf-59.9

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The of the start-stop-daemon

* A rewrite of the original Debian's start-stop-daemon Perl script
* in C (faster - it is executed many times during system startup).
* Written by Marek Michalkiewicz <marekm@i17linuxb.ists.pwr.wroc.pl>, public domain.

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There are currently two explicit copyrights on portions of UnZip code (at least, of which Info-ZIP is aware):
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All remaining code is now (starting with UnZip version 5.41) covered by the new Info-ZIP license. For details, please read the accompanying file LICENSE. The terms and conditions in this license supersede the copyright conditions of the contributions by Igor Mandrichenko (vms/vms.c), Greg Roelofs (zipinfo.c, new version of unshrink.c), Mike White (Windows DLL code in "windll/*"), Steve P. Miller (Pocket UnZip GUI "wince/*"), and Mark Adler (inflate/explode decompression core routines, previously put into the public domain). All these Info-ZIP contributors (or "primary" authors) have permitted us to replace their copyright notes by the Info-ZIP License.
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The original unzip source code has been extensively modified and almost entirely rewritten (changes include random zipfile access rather than sequential; replacement of unimplode() with explode(); replacement of old unshrink() with new (unrelated) unshrink(); replacement of output routines; addition of inflate(), wildcards, filename-mapping, text translation, ...; etc.). As far as we can tell, only the core code of the unreduce method remained substantially similar to Mr. Smith's original source. As of UnZip 5.42, the complete core code is now covered by the Info-ZIP Licence. Therefore, support for the reduce method has been removed.

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"He says that he thought that whoever contacted him understood that he has no objection to the Info-ZIP group's inclusion of his code. His primary concern is that it remain freely distributable, he said."

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The remaining code was written by many people associated with the
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Greg Roelofs (overall program logic, ZipInfo, unshrink, filename
mapping/portability, etc.), Mark Adler (inflate, explode, funzip),
Kai Uwe Rommel (OS/2), John Bush and Paul Kienitz (Amiga), Antoine
Verheijen (Macintosh), Hunter Goatley (more VMS), Mike White (Windows
DLLs), Christian Spieler (overall logic, optimization, VMS, etc.) and
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The decompression core code for the deflate method (inflate.[ch],
explode.c) was originally written by Mark Adler who submitted it
as public domain code.

--------------------------------------------------------------------------

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      (For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.
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Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the
library”. The executable is therefore covered by this License. 
Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)
b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

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      (For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

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4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

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When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not.
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If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

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b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if
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HISTORY -

Early versions of this collector were developed as a part of research projects supported in part by the National Science Foundation and the Defense Advance Research Projects Agency.
The garbage collector originated as part of the run-time system for the Russell programming language implementation. The first version of the garbage collector was written primarily by Al Demers. It was then refined and mostly rewritten, primarily by Hans-J. Boehm, at Cornell U., the University of Washington, Rice University (where it was first used for C and assembly code), Xerox PARC, SGI, and HP Labs. However, significant contributions have also been made by many others.

Some other contributors:

More recent contributors are mentioned in the modification history in README.changes. My apologies for any omissions.

The SPARC specific code was originally contributed by Mark Weiser. The Encore Multimax modifications were supplied by Kevin Kenny (kenny@m.cs.uiuc.edu). The adaptation to the IBM PC/RT is largely due to Vernon Lee, on machines made available to Rice by IBM. Much of the HP specific code and a number of good suggestions for improving the generic code are due to Walter Underwood.

Robert Brazile (brazile@diamond.bbn.com) originally supplied the ULTRIX code. Al Dosser (dosser@src.dec.com) and Regis Cridlig (Regis.Cridlig@cl.cam.ac.uk) subsequently provided updates and information on variation between ULTRIX systems. Parag Patel (parag@netcom.com) supplied the A/UX code. Jesper Peterson(jep@mtiame.mitia.oz.au), Michel Schinz, and Martin Tauchmann (martintauchmann@bigfoot.com) supplied the Amiga port. Thomas Funke (thf@zelator.in-berlin.de(?)) and Brian D.Carlstrom (bdc@clark.lcs.mit.edu) supplied the NeXT ports. Douglas Steel (doug@wg.icl.co.uk) provided ICL DRS6000 code.

Bill Janssen (janssen@parc.xerox.com) supplied the SunOS dynamic loader specific code. Manuel Serrano (serrano@cornas.inria.fr) supplied linux and Sony News specific code. Al Dosser provided Alpha/OSF/1 code. He and Dave Detlefs(detlefs@src.dec.com) also provided several generic bug fixes. Alistair G. Crooks(agg@uts.amdahl.com) supplied the NetBSD and 386BSD ports. Jeffrey Hsu (hsu@soda.berkeley.edu) provided the FreeBSD port.

Brent Benson (brent@jade.ssd.csd.harris.com) ported the collector to a Motorola 88K processor running CX/UX (Harris NightHawk). Ari Huttunen (Ari.Huttunen@net.fi) generalized the OS/2 port to nonIBM development environments (a nontrivial task).

Patrick Beard (beard@cs.ucdavis.edu) provided the initial MacOS port. David Chase, then at Olivetti Research, suggested several improvements. Scott Schwartz (schwartz@grouch.esc.psu.edu) supplied some of the code to save and print call stacks for leak detection on a SPARC. Jesse Hull and John Ellis supplied the C++ interface code.

Zhong Shao performed much of the experimentation that led to the current typed allocation facility. (His dynamic type inference code hasn’t made it into the released version of the collector, yet.)

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b) Use a suitable shared library mechanism for linking with the
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copy of the library already present on the user's computer system,
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its purpose remains meaningful.

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Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, while the latter only works together with the library.

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"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

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4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

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If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.
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1.1908 chokidar 3.5.1
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1.1909 d3-collection 1.0.7

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Finally, every program is threatened constantly by software patents. States should not allow patents to restrict development and use of software on general-purpose computers, but in those that do, we wish to avoid the special danger that patents applied to a free program could make it effectively proprietary. To prevent this, the GPL assures that patents cannot be used to render the program non-free.

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The "source code" for a work means the preferred form of the work for making modifications to it. "Object code" means any non-source form of a work.

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1.1912 xz 5.2.4

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man/errc.3bsd
man/explicit_bzero.3bsd
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man/strtonum.3bsd
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src/arc4random_openbsd.h
src/arc4random_uniform.c
src/arc4random_unix.h
src/closefrom.c
src/getentropy_aix.c
src/getentropy BSD.c
src/getentropy_hpux.c
src/getentropy_hurd.c
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Name: custompalette
Columns: 4
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GIMP Palette
Name: badpalettefile
Columns: 4
#
  0  0  0  Index 3
 0123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789
  79  73  72  Index 7
NotoNastaliqUrdu-Regular.ttf and NotoSansSymbols-Regular.ttf, from https://github.com/googlei18n/noto-fonts
NotoSans-Regular.ttf, from https://www.google.com/get/noto/
NotoColorEmoji.ttf, from https://github.com/googlefonts/noto-emoji
AdobeVFPrototype.ttf, from https://github.com/adobe-fonts/adobe-variable-font-prototype
TINY5x3GX.ttf, from http://velvetyne.fr/fonts/tiny
ArefRuqaa-Regular.ttf, from https://github.com/googlefonts/tree/master/ofl/arefruqaa
ter-x20b.pcf, from http://terminus-font.sourceforge.net/
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Name: badpaletteentry
Columns: 4

#
0 0 0  Index 3
65 38
103 62 49  Index 6
79 73 72  Index 7
114 101 97  Index 8
208 127 100  Index 9
151 144 142  Index 10
221 207 199  Index 11

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1.1920 lua 5.2.4
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1.1923 shim-signed

1.37~18.04.8+15+1552672080.a4a1fbe

0ubuntu2

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1.1926 deepmerge 2.2.1
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1.1927 dmraid 1.0.0.rc16-28.amzn2.0.2
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1.1950 xorg-randr 2.2.0

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1.1951 openssl 1.1.1i
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Ubuntu Font Family Licensing FAQ

Stylistic Foundations

The Ubuntu Font Family is the first time that a libre typeface has been designed professionally and explicitly with the intent of developing a public and long-term community-based development process.

When developing an open project, it is generally necessary to have firm foundations: a font needs to maintain harmony within itself even across many type designers and writing systems. For the [1]Ubuntu Font Family, the process has been guided with the type foundry Dalton Maag setting the project up with firm stylistic foundation covering several left-to-right scripts: Latin, Greek and Cyrillic; and right-to-left scripts: Arabic and Hebrew (due in 2011).

With this starting point the community will, under the supervision of [2] Canonical and [3] Dalton Maag, be able to build on the existing font sources to expand their character coverage. Ultimately everybody will be able to use the Ubuntu Font Family in their own written languages across the whole of Unicode (and this will take some time!).

Licensing

The licence chosen by any free software project is one of the foundational decisions that sets out how derivatives and contributions can occur, and in turn what kind of community will form around the
Using a licence that is compatible with other popular licences is a powerful constraint because of the network effects: the freedom to share improvements between projects allows free software to reach high-quality over time. Licence-proliferation leads to many incompatible licences, undermining the network effect, the freedom to share and ultimately making the libre movement that Ubuntu is a part of less effective. For all kinds of software, writing a new licence is not to be taken lightly and is a choice that needs to be thoroughly justified if this path is taken.

Today it is not clear to Canonical what the best licence for a font project like the Ubuntu Font Family is: one that starts life designed by professionals and continues with the full range of community development, from highly commercial work in new directions to curious beginners’ experimental contributions. The fast and steady pace of the Ubuntu release cycle means that an interim libre licence has been necessary to enable the consideration of the font family as part of Ubuntu 10.10 operating system release.

Before taking any decision on licensing, Canonical as sponsor and backer of the project has reviewed the many existing licenses used for libre/open fonts and engaged the stewards of the most popular licenses in detailed discussions. The current interim licence is the first step in progressing the state-of-the-art in licensing for libre/open font development.

The public discussion must now involve everyone in the (comparatively new) area of the libre/open font community; including font users, software freedom advocates, open source supporters and existing libre font developers. Most importantly, the minds and wishes of professional type designers considering entering the free software business community must be taken on board.

Conversations and discussion has taken place, privately, with individuals from the following groups (generally speaking personally on behalf of themselves, rather than their affiliations):

* [5]SIL International
* [6]Open Font Library
* [7]Software Freedom Law Center
* [8]Google Font API

Document embedding

One issue highlighted early on in the survey of existing font licences is that of document embedding. Almost all font licences, both free and unfree, permit embedding a font into a document to a certain degree.
Embedding a font with other works that make up a document creates a "combined work" and copyleft would normally require the whole document to be distributed under the terms of the font licence. As beautiful as the font might be, such a licence makes a font too restrictive for useful general purpose digital publishing.

The situation is not entirely unique to fonts and is encountered also with tools such as GNU Bison: a vanilla GNU GPL licence would require anything generated with Bison to be made available under the terms of the GPL as well. To avoid this, Bison is published with an additional permission to the GPL which allows the output of Bison to be made available under any licence.

The conflict between licensing of fonts and licensing of documents, is addressed in two popular libre font licences, the SIL OFL and GNU GPL:

* [10]SIL Open Font Licence: When OFL fonts are embedded in a document, the OFL’s terms do not apply to that document. (See [11]OFL-FAQ for details.
* [12]GPL Font Exception: The situation is resolved by granting an additional permission to allow documents to not be covered by the GPL. (The exception is being reviewed).

The Ubuntu Font Family must also resolve this conflict, ensuring that if the font is embedded and then extracted it is once again clearly under the terms of its libre licence.

Long-term licensing

Those individuals involved, especially from Ubuntu and Canonical, are interested in finding a long-term libre licence that finds broad favour across the whole libre/open font community. The deliberation during the past months has been on how to licence the Ubuntu Font Family in the short-term, while knowingly encouraging everyone to pursue a long-term goal.

* [13]Copyright assignment will be required so that the Ubuntu Font Family’s licensing can be progressively expanded to one (or more) licences, as best practice continues to evolve within the libre/open font community.
* Canonical will support and fund legal work on libre font licensing. It is recognised that the cost and time commitments required are likely to be significant. We invite other capable parties to join in supporting this activity.

The GPL version 3 (GPLv3) will be used for Ubuntu Font Family build scripts and the CC-BY-SA for associated documentation and non-font content: all items which do not end up embedded in general works and documents.
Ubuntu Font Licence

For the short-term only, the initial licence is the [14]Ubuntu Font License (UFL). This is loosely inspired from the work on the SIL OFL 1.1, and seeks to clarify the issues that arose during discussions and legal review, from the perspective of the backers, Canonical Ltd. Those already using established licensing models such as the GPL, OFL or Creative Commons licensing should have no worries about continuing to use them. The Ubuntu Font Licence (UFL) and the SIL Open Font Licence (SIL OFL) are not identical and should not be confused with each other. Please read the terms precisely. The UFL is only intended as an interim license, and the overriding aim is to support the creation of a more suitable and generic libre font licence. As soon as such a licence is developed, the Ubuntu Font Family will migrate to it made possible by copyright assignment in the interim. Between the OFL 1.1, and the UFL 1.0, the following changes are made to produce the Ubuntu Font Licence:

* Clarification:

2. Apply at point of distribution, instead of receipt
3. Author vs. copyright holder disambiguation (type designers are authors, with the copyright holder normally being the funder)
4. Define "Propagate" (for internationalisation, similar to the GPLv3)
5. Define "Substantially Changed"
6. Trademarks are explicitly not transferred
7. Refine renaming requirement

Streamlining:
8. Remove "not to be sold separately" clause
9. Remove "Reserved Font Name(s)" declaration

A visual demonstration of how these points were implemented can be found in the accompanying coloured diff between SIL OFL 1.1 and the Ubuntu Font Licence 1.0: [16]ofl-1.1-ufl-1.0.diff.html

References

13. https://launchpad.net/~uff-contributors
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1.1960 color 1.9.0

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1.1961 ts-pnp 1.2.0

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```html
# <img src="http://www.typescriptlang.org/assets/images/icons/apple-touch-icon-180x180.png" height="40" align="right" /> [Plug'n'Play](https://github.com/yarnpkg/rfcs/pull/101) resolver for TypeScript


*This plugin is also available for Webpack ([pnp-webpack-plugin](https://github.com/arcanis/pnp-webpack-plugin)), Jest ([jest-pnp-resolver](https://github.com/arcanis/jest-pnp-resolver)), and Rollup ([rollup-plugin-pnp-resolve](https://github.com/arcanis/rollup-plugin-pnp-resolve))*

## Installation

```bash
yarn add -D ts-pnp
```

## Usage

*Note that `ts-pnp` is a low-level package - you shouldn't have to use it unless you're writing a TS compiler host. If you just want to write TypeScript and have it Just Work, take a look at [*pnp-webpack-plugin*](https://github.com/arcanis/pnp-webpack-plugin#ts-loader-integration) instead.*

This package exports a function that can be used to implement the `resolveModuleName` hook from `CompilerHost` [Using-the-Compiler-API#customizing-module-resolution](https://github.com/Microsoft/TypeScript/wiki/Using-the-Compiler-API#customizing-module-resolution). It mimics the interface from the one you'd typically use and, as all other PnP plugins, works just fine whether your application is actually running under PnP or not.

```js
import {resolveModuleName} from 'ts-pnp';
import * as ts from 'typescript';

function createCompilerHost(
    compilerOptions: ts.CompilerOptions,
```
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Found in path(s):
* /opt/cola/permits/1160853603_1620409397.31/0/arcanis-ts-pnp-v1-2-0-0-ge6ac68b-1-tar-gz/arcanis-ts-pnp-c356e17/README.md
1.1962 noop-logger 0.1.1

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1.1963 protobuf 18.0.0

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1.1964 data-json 0.2.6

1.1965 isl 0.19-1
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1.1969 are-we-there-yet 1.1.5
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1.1972 path-exists 4.0.0

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1.1973 grep 3.1 2build1

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1.1977 nookies 2.5.2

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#!/usr/bin/env node
module.exports = () => {
  var e = {
    25545: (e) => {
      function t(e) {
        var t = new Error("Cannot find module '" + e + '"")
      throw ((t.code = 'MODULE_NOT_FOUND'), t)
    }
  };(t.keys = () => []), (t.resolve = t), (t.id = 25545), (e.exports = t)
},
44692: (e, t, r) => {
  'use strict'
r.r(t), r.d(t, { default: () => g })
  var A = r(54143)
  const n = { optional: !0 },
  o = [
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],

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],
['react-instantsearch-core@<=6.7.0',
  { peerDependencies: { algoliasearch: '>= 3.1 < 5' } },
],
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const c = new Map({
  A.makeIdent(null, 'fsevents').identHash,
  function () {
    return (i = r(78761)
      .brotliDecompressSync(Buffer.from('G7weABYFTVkJ3Sv7UfHhq4yykgEM7pbW7TI43SG25tvGrwHBAdzh+z/npQ6tgEobvxirsPladkXeUAJotBn5bDZ5kAcRq6He3F75Wal5thNa1wglFTDxb0BiDUIjUqKjG0yW2hto9HPQiCkm316d6bC0kST7YQN7DrkCE9x4JX0xWB0yavaIxpUu2t9xzHrmtwalOx7TvslsxWc1qppZwERUra4psWhTRV8BwWeizurec82CafIABL11YMbbf8F9J9Bb04Z0kqmvqQPbC9DUldX/yMbmtX06UQuCejSwU0yO+EZPljofr+o/AZUc2enraRD+oWLLnYnjx8B+gWS
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'base64',
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).
)

.toString(),
i
)
],
]

A.makeIdent(null, 'resolve').identHash,
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return (
void 0 === s &&
(s = r(78761)
.brotliDecompressSync,
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Uv0u0paCkiRJdD8P73sgWzqrf4ZXZoaBZMrwvCUCo7iTGdGXDdbGi8HXkQ5XKDFGUXueWue5wkaS6mg
MY159992p41QwBKIA4tPnOcZFbdz21GwEAyl1jiUydGxDSCUsh314eUIIRvdWChceubLz2U8CBewmP
7UXmN5N47fzQhpxPKBONCe8iGZXqv4c3frkEZ7P232g/jqurqK5UZIjVXCfHz5KMO4itkMKFCGzxxzJR
P20lK/gz28Y03sY233KvSVWUKL9cbX6MhJipUG8MvNlw72p6Fwtev92zgpgnCvxJnIHIHzCBxNcHF5RTvRe
P513hUThQh4BIdylz7TSYHkqKnr4+9kCkG16zSZKDrbo3N3y9gqXHieisMlN6sVpf/IFMzAbBcQd
LeS05d1ac1kr76FtHC7cs0500q3GsmF1qA4YABAMCGdPawztK3b7ChcKv9120bV/GYvnsEIQ1Ygmt5i5E
QqTlqZszbV/32GuZTu4F9JA/4rJAdwUS08oPo6m0oNBuPJy1m5axZaWQF33BfSfLWiyyvVOM4oxnG80272cuP2
a3q98GWq6yiq6q3M77hCuZOlunmyrCTYml4Hb25F5ixFohkBmySbCJuU+M77WQVE5YAtnixUJDhFN0y1tNeMW
Y9E0MfdZizrQ4Ce7WXjsAA=',

'base64',
),
)

toString(),
s
10189: (e, t, r) => {
  'use strict'
  r.r(t), r.d(t, { default: () => p })
  var A = r(36370),
  n = r(25413),
  o = r(54143),
  i = r(40822)
  class s extends n.BaseCommand {
    constructor() {
      super(...arguments), (this.quiet = !1), (this.args = [])
    }
    async execute() {
      const e = []
      this.pkg && e.push('--package', this.pkg),
      this.quiet && e.push('--quiet')
      const t = o.parseIdent(this.command),
      r = o.makeIdent(t.scope, 'create-' + t.name)
      return this.cli.run([ 
        'dlx',
        ...e,
        o.stringifyIdent(r),
        ...this.args,
      ])}
  }
};(0, A.gn)(
  [ 
    i.Command.String('-p,--package', { 
      description: 'The package to run the provided command from',
    }),
  ],
  s.prototype,
  'pkg',
  void 0,
),
(0, A.gn)(
  [ 
    i.Command.Boolean('-q,--quiet', { 
      description: 
        'Only report critical errors instead of printing the full install logs',
    }),
  ],
  s.prototype,
  'quiet',
  void 0,
class h extends n.BaseCommand {
    constructor() {
        super(...arguments), (this.quiet = !1), (this.args = [])
    }
    async execute() {
        return (a.VK.telemetry = null),
        await l.xfs.mktempPromise(async (e) => {
            const t = u.y1.join(e, 'dlx-' + process.pid)
            await l.xfs.mkdirPromise(t),
            await l.xfs.writeFilePromise(u.y1.join(t, 'package.json'), '{}
'),
            await l.xfs.writeFilePromise(u.y1.join(t, 'yarn.lock'), ''),
            const r = u.y1.join(t, '.yarnrc.yml'),
            A = await a.VK.findProjectCwd(this.context.cwd, u.QS.lockfile,
            ),
            i = null !== A ? u.y1.join(A, '.yarnrc.yml') : null
            null !== i && l.xfs.existsSync(i)
            ? (await l.xfs.copyFilePromise(i, r),
            await a.VK.updateConfiguration(t, (e) => {
                const t = {
                    ...e,
                    enableGlobalCache: !0,
                    enableTelemetry: !1,
                }
                return (Array.isArray(e.plugins) &&
                (t.plugins = e.plugins.map((e) => {
                    const t = 'string' == typeof e ? e : e.path,
                    r = u.cS.isAbsolute(t)
                    ? t : u.cS.resolve(u.cS.fromPortablePath(A), t)
                    return 'string' == typeof e
                    ? r : { path: r, spec: e.spec }
                }));
            })
        })
    }
}
const s = void 0 !== this.pkg ? [this.pkg] : [this.command],
    h = o.parseDescriptor(this.command).name,
    p = await this.cli.run(['add', `--`, ...s], {
      cwd: t,
      quiet: this.quiet,
    })
    if (0 !== p) return p
this.quiet || this.context.stdout.write('
')
const d = await a.VK.find(t, this.context.plugins),
    { project: C, workspace: f } = await c.I.find(d, t)
if (null === f) throw new n.WorkspaceRequiredError(C.cwd, t)
return (
    await C.restoreInstallState(),
    await g.executeWorkspaceAccessibleBinary(f, h, this.args, {
      cwd: this.context.cwd,
      stdin: this.context.stdin,
      stdout: this.context.stdout,
      stderr: this.context.stderr,
    })
  )
)
})
)
})
}
);

(h.usage = i.Command.Usage({
    description: 'run a package in a temporary environment',
    details: 
    "
    This command will install a package within a temporary environment, and run its binary script if it contains any. The binary will run within the current cwd.

    By default Yarn will download the package named ‘command’, but this can be changed through the use of the ‘-p,--package’ flag which will instruct Yarn to still run the same command but from a different package.

    Using ‘yarn dlx’ as a replacement of ‘yarn add’ isn’t recommended, as it makes your project non-deterministic (Yarn doesn’t keep track of the packages installed through ‘dlx’ - neither their name, nor their version).
    
    examples: [ ]
    'Use create-react-app to create a new React app',
    'yarn dlx create-react-app /my-app',
    ],
}),
)),
i.Command.String('-p,--package', {
    description: 'The package to run the provided command from',
}),
]

h.prototype,
'pkg',
void 0,
),
(0, A.gn)(

i.Command.Boolean('-q,--quiet', {
    description: 
    'Only report critical errors instead of printing the full install logs',
}),
]

h.prototype,
'quiet',
void 0,
),

(0, A.gn)([i.Command.String()], h.prototype, 'command', void 0),
(0, A.gn)([i.Command.Proxy()], h.prototype, 'args', void 0),
(0, A.gn)([i.Command.Path('dlx')], h.prototype, 'execute', null)
const p = { commands: [s, h] }

34777: (e, t, r) => {
  'use strict'
  r.r(t),
  r.d(t, {
    dedupeUtils: () => A,
    default: () => We,
    suggestUtils: () => A,
  })
  var A = [
    r.r(A),
    r.d(A, {
      Modifier: () => o,
      Strategy: () => i,
      Target: () => n,
      applyModifier: () => S,
      extractDescriptorFromPath: () => N,
      extractRangeModifier: () => v,
      fetchDescriptorFrom: () => K,
      findProjectDescriptors: () => k,
      getModifier: () => D,
      getSuggestedDescriptors: () => F,
    })
  )
function D(e, t) {
    return e.exact
        ? o.EXACT
        : e.caret
        ? o.CARET
        : e.tilde
        ? o.TILDE
        : t.configuration.get('defaultSemverRangePrefix')
}

!(function (e) {
    ;(e.REGULAR = 'dependencies'),
    (e.DEVELOPMENT = 'devDependencies'),
    (e.PEER = 'peerDependencies')
})(n || (n = {})),

(function (e) {
    ;(e.CARET = '^'), (e.TILDE = '~'), (e.EXACT = '')
})(o || (o = {})),

(function (e) {
    ;(e.KEEP = 'keep'),
    (e.REUSE = 'reuse'),
    (e.PROJECT = 'project'),
    (e.LATEST = 'latest'),
    (e.CACHE = 'cache')
})(i || (i = {}))

const b = /^(\^[\~\-]?)\[0-9\]+\.(0-9\+\?\-[0-9]\+\?)\{0,2\}?(?:\S+)\?$

function v(e, { project: t }) {
    const r = e.match(b)
return r ? r[1] : t.configuration.get('defaultSemverRangePrefix')
}

function S(e, t) {
  let { protocol: r, source: A, params: n, selector: o } = d.parseRange(
    e.range,
  )
  return (Q().valid(o) && (o = `${t}$${e.range}`),
    d.makeDescriptor(
      e,
      d.makeRange({ protocol: r, source: A, params: n, selector: o }),
    )
  )
}

async function k(e, { project: t, target: r }) {
  const A = new Map(),
  o = (e) => {
    let t = A.get(e.descriptorHash)
    return (t ||
      A.set(
        e.descriptorHash,
        (t = { descriptor: e, locators: [] }),
      ),
      t
    )
  } for (const A of t.workspaces)
    if (r === n.PEER) {
      const t = A.manifest.peerDependencies.get(e.identHash)
      void 0 !== t && o(t).locators.push(A.locator)
    } else {
      const t = A.manifest.dependencies.get(e.identHash),
        i = A.manifest.devDependencies.get(e.identHash)
      r === n.DEVELOPMENT
        ? void 0 !== i
        ? o(i).locators.push(A.locator)
        : void 0 !== t && o(t).locators.push(A.locator)
        : void 0 !== t
        ? o(t).locators.push(A.locator)
        : void 0 !== i && o(i).locators.push(A.locator)
    }
  return A
}

async function N(e, { cwd: t, workspace: r }) {
  return await (async function (e) {
    return await y.xfs.mktempPromise(async (t) => {
      const r = s.VK.create(t)
return (r.useWithSource(t, { enableMirror: !1, compressionLevel: 0 }, t, { overwrite: !0 }), await e(new g.C(t, { configuration: r, check: !1, immutable: !1 })), )

)m.y1.isAbsolute(e) || (e = m.y1.relative(r.cwd, m.y1.resolve(t, e)).match(/\^\./, ) || (e = './' + e))

const { project: n } = r,
o = await K(d.makeIdent(null, 'archive'), e, { project: r.project, cache: A, workspace: r, })
if (!o) throw new Error('Assertion failed: The descriptor should have been found', )

const i = new I.$(),
s = n.configuration.makeResolver(),
a = n.configuration.makeFetcher(),
c = {
  checksums: n.storedChecksums,
  project: n,
  cache: A,
  fetcher: a,
  report: i,
  resolver: s,
},
g = s.bindDescriptor(o, r.anchoredLocator, c),
l = d.convertDescriptorToLocator(g),
u = await a.fetch(l, c),
h = await E.G.find(u.prefixPath, { baseFs: u.packageFs })
if (!h.name) throw new Error("Target path doesn't have a name")
return d.makeDescriptor(h.name, e)

})

async function F(
e,
[
  project: t,
  workspace: r,
  cache: A,
  target: o,
  modifier: s,
  strategies: a,
  maxResults: c = 1 / 0,
],
)
if (!(c >= 0)) throw new Error(`Invalid maxResults (${c})`)
if ('unknown' !== e.range)
  return {
    suggestions: [
      {
        descriptor: e,
        name: 'Use ' + d.prettyDescriptor(t.configuration, e),
        reason: '(unambiguous explicit request)',
      },
    ],
    rejections: [],
  }
const g = (null != r && r.manifest[o].get(e.identHash)) || null,
l = [],
u = [],
h = async (e) => {
  try {
    await e()
  } catch (e) {
    u.push(e)
  }
}
for (const u of a) {
  if (l.length >= c) break
  switch (u) {
    case i.KEEP:
      await h(async () => {
        g &&
        l.push({
          descriptor: g,
          name: 'Keep ' + d.prettyDescriptor(t.configuration, g),
          reason: '(no changes)',
        })
      })
      break
    case i.REUSE:
      await h(async () => {

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for (const { descriptor: A, locators: n } of (await k(e, { project: t, target: o })).values()) {
  if (1 === n.length &&
      n[0].locatorHash === r.anchoredLocator.locatorHash &&
      a.includes(i.KEEP))
  {
    continue
  }
  let e =
    '(originally used by' +
    d.prettyLocator(t.configuration, n[0]) +
    e +=
    n.length > 1
    ? ` and ${n.length - 1} other${n.length > 2 ? 's' : ''}`
    : ')
 );
  l.push({
    descriptor: A,
    name: 'Reuse ' + d.prettyDescriptor(t.configuration, A),
    reason: e,
  })
}
})
break

case i.CACHE:
  await h(async () => {
    for (const r of t.storedDescriptors.values())
      r.identHash === e.identHash &&
    l.push({
      descriptor: r,
      name: 'Reuse ' + d.prettyDescriptor(t.configuration, r),
      reason: '(already used somewhere in the lockfile)',
    })
  })
break

case i.PROJECT:
  await h(async () => {
    if (null !== r.manifest.name &&
      e.identHash === r.manifest.name.identHash)
      return
    const A = t.tryWorkspaceByIdent(e)
    null !== A &&
    l.push({
      descriptor: A.anchoredDescriptor,
name: 'Attach ' + d.prettyWorkspace(t.configuration, A),
    reason: `(local workspace at ${A.cwd})`,
})
})
break

  case i.LATEST:
    await h(async () => {
      if ('unknown' !== e.range)
        l.push({
          descriptor: e,
          name: 'Use ' + d.prettyRange(t.configuration, e.range),
          reason: '(explicit range requested)',
        })
      else if (o === n.PEER)
        l.push({
          descriptor: d.makeDescriptor(e, '*'),
          name: 'Use *',
          reason: '(catch-all peer dependency pattern)',
        })
      else if (t.configuration.get('enableNetwork')) {
        let n = await K(e, 'latest', {
          project: t,
          cache: A,
          workspace: r,
          preserveModifier: '!',
        })
        n &&
          ((n = S(n, s)),
          l.push({
            descriptor: n,
            name: 'Use ' + d.prettyDescriptor(t.configuration, n),
            reason: '(resolved from latest)',
          }))
      } else
        l.push({
          descriptor: null,
          name: 'Resolve from latest',
          reason: B.pretty(
            t.configuration,
            '(unavailable because enableNetwork is toggled off)',
            'grey',
          ),
        })
    })
  })
return { suggestions: l.slice(0, c), rejections: u.slice(0, c) }
async function K(e, t, { project: r, cache: A, workspace: n, preserveModifier: o = !0 }, ) {

const i = d.makeDescriptor(e, t),
    s = new I.$.()
    a = r.configuration.makeFetcher(),
    c = r.configuration.makeResolver(),
    g = {
        project: r,
        fetcher: a,
        cache: A,
        checksums: r.storedChecksums,
        report: s,
        skipIntegrityCheck: '00',
    },
    l = { ...g, resolver: c, fetchOptions: g },
    u = c.bindDescriptor(i, n.anchoredLocator, l),
    h = await c.getCandidates(u, new Map(), l)
if (0 === h.length) return null
const p = h[0]
let { protocol: C, source: f, params: E, selector: B } = d.parseRange(
    d.convertToManifestRange(p.reference),
)
if (
    (C === r.configuration.get('defaultProtocol') && (C = null),
        Q().valid(B) && !1 !== o)
)

    B = v('string' == typeof o ? o : i.range, { project: r }) + B
}
return d.makeDescriptor(
    p,
    d.makeRange({ protocol: C, source: f, params: E, selector: B })),
)
}
class M extends c.BaseCommand {
  constructor() {
    super(...arguments),
    (this.packages = []),
    (this.json = !1),
    (this.exact = !1),
    (this.tilde = !1),
    (this.caret = !1),
    (this.dev = !1),
    (this.peer = !1),
    (this.optional = !1),
    (this.preferDev = !1),
    (this.preferDev = !1),
}
(this.interactive = null),
(this.cached = !1)
}
async execute() {
var e
const t = await s.VK.find(this.context.cwd, this.context.plugins),
{ project: r, workspace: A } = await h.I.find(
t,
this.context.cwd,
),
o = await g.C.find(t)
if (!A) throw new c.WorkspaceRequiredError(r.cwd, this.context.cwd)
await r.restoreInstallState({ restoreResolutions: !1 })
const a =
null !== (e = this.interactive) && void 0 !== e
?e
: t.get('preferInteractive'),
I = D(this, r),
E=[
...(a ? [i.REUSE] : []),
i.PROJECT,
...(this.cached ? [i.CACHE] : []),
i.LATEST,
],
B = a ? 1 / 0 : 1,
y = await Promise.all(
this.packages.map(async (e) => {
const t = e.match(/^\.{0,2}\//)
? await N(e, { cwd: this.context.cwd, workspace: A })
: d.parseDescriptor(e),
i = (function (
e,
t,
{ dev: r, peer: A, preferDev: o, optional: i },
){
const s = e.manifest[n.REGULAR].has(t.identHash),
a = e.manifest[n.DEVELOPMENT].has(t.identHash),
c = e.manifest[n.PEER].has(t.identHash)
if ((r || A) && s)
throw new C.UsageError(
`Package "${d.prettyIdent(
e.project.configuration,
t,
)}" is already listed as a regular dependency - remove the -D,-P flags or remove it from your
dependencies first`,
)
if (!r && !A && c)
throw new C.UsageError(

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`Package "${d.prettyIdent(e.project.configuration, t, )}" is already listed as a peer dependency - use either of -D or -P, or remove it from your peer dependencies first`,

if (i && a)
    throw new C.UsageError(`Package "${d.prettyIdent(e.project.configuration, t, )}" is already listed as a dev dependency - remove the -O flag or remove it from your dev dependencies first`,

if (i && !A && c)
    throw new C.UsageError(`Package "${d.prettyIdent(e.project.configuration, t, )}" is already listed as a peer dependency - remove the -O flag or add the -P flag or remove it from your peer dependencies first`,

if ((r || o) && i)
    throw new C.UsageError(`Package "${d.prettyIdent(e.project.configuration, t, )}" cannot simultaneously be a dev dependency and an optional dependency`,

return A
    ? n.PEER
    : r || o
    ? n.DEVELOPMENT
    : s
    ? n.REGULAR
    : a
    ? n.DEVELOPMENT
    : n.REGULAR
})(A, t, {
    dev: this.dev,
    peer: this.peer,
    preferDev: this.preferDev,
    optional: this.optional,
})
return [t,
    await F(t, {
        project: r,
workspace: A,
cache: 0,
target: i,
modifier: I,
strategies: E,
maxResults: B,
})
i,
})
),
m = await l.h.start(
{
    configuration: t,
    stdout: this.context.stdout,
suggestInstall: !1,
},
async (e) => {
for (const [A, { suggestions: n, rejections: o }] of y) {
    if (0 === n.filter((e) => null !== e.descriptor).length) {
        const [n] = o
        if (void 0 === n)
            throw new Error('Assertion failed: Expected an error to have been set',
        )
        const i = this.cli.error(n)
r.configuration.get('enableNetwork')
? e.reportError(
    u.b.CANT_SUGGEST_RESOLUTIONS,
    `{d.prettyDescriptor(t,
    A,
    )} can’t be resolved to a satisfying range:

{i}`
)
    : e.reportError(
    u.b.CANT_SUGGEST_RESOLUTIONS,
    `{d.prettyDescriptor(t,
    A,
    )} can’t be resolved to a satisfying range (note: network resolution has been disabled):

{i}`
)
})
if (m.hasErrors()) return m.exitCode()
let w = !1
const Q = [].

---

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b = []
for (const [, { suggestions: e }, t] of y) {
    let r
    const n = e.filter((e) => null !== e.descriptor),
        o = n[0].descriptor,
        i = n.every((e) => d.areDescriptorsEqual(e.descriptor, o))
    l == n.length || i
        ? (r = o)
        : ((w = !0),
        (async () => await (0, f.prompt)(
            { answer: r }
        ))(0, f.prompt)(
            { type: 'select',
              name: 'answer',
              message: 'Which range do you want to use?',
              choices: e.map((({ descriptor: e, name: t, reason: r }) =>
                e
            )
                ? [ name: t, hint: r, descriptor: e ]
                : [ name: t, hint: r, disabled: '!0' ],
            )
        ,
        onCancel: () => process.exit(130),
        result(e) {
            return this.find(e, 'descriptor')
        },
        stdin: this.context.stdin,
        stdout: this.context.stdout,
    ))
    const s = A.manifest[t].get(r.identHash)
    (void 0 !== s && s.descriptorHash === r.descriptorHash) ||
    A.manifest[t].set(r.identHash, r),
    this.optional &&
    ('dependencies' === t
        ? (A.manifest.ensureDependencyMeta(
            ...r,
            range: 'unknown',
            )).optional = w
        : 'peerDependencies' === t &&
            (A.manifest.ensurePeerDependencyMeta(
                ...r,
                range: 'unknown',
                )).optional = w)
    void 0 === s ? Q.push([A, t, r, E]) : b.push([A, t, s, r])
}
await t.triggerMultipleHooks(
    (e) => e.afterWorkspaceDependencyAddition,
    Q,
).await t.triggerMultipleHooks(
    (e) => e.afterWorkspaceDependencyReplacement,
    b,
)
This command adds a package to the package.json for the nearest workspace. If it didn’t exist before, the package will by default be added to the regular `dependencies` field, but this behavior can be overridden thanks to the `-D,--dev` flag (which will cause the dependency to be added to the `devDependencies` field instead) and the `-P,--peer` flag (which will do the same but for `peerDependencies`).

- If the package was already listed in your dependencies, it will be deleted unless you specified a range (such as `^1.0.0`, `latest`, or `rc`), Yarn will add this range as-is in the resulting package.json entry (in particular, tags such as `rc` will be encoded as-is rather than being converted into a semver range).

If the `-i,--interactive` option is used, Yarn will preferably reuse the highest version already used somewhere within the project, even if through a transitive dependency. Yarn will add this range as-is in the resulting package.json entry (in particular, tags such as `rc` will be encoded as-is rather than being converted into a semver range).

For a compilation of all the supported protocols, please consult the dedicated page from our website: https://yarnpkg.com/features/protocols.

Examples:

- `Add a regular package to the current workspace`, `$0 add lodash`
'Add a specific version for a package to the current workspace',
'S0 add lodash@1.2.3',
],
[
'Add a package from a GitHub repository (the master branch) to the current workspace using a URL',
'S0 add lodash@https://github.com/lodash/lodash',
],
[
'Add a package from a GitHub repository (the master branch) to the current workspace using the GitHub protocol',
'S0 add lodash@github:lodash/lodash',
],
[
'Add a package from a GitHub repository (the master branch) to the current workspace using the GitHub protocol (shorthand)',
'S0 add lodash@lodash/lodash',
],
[
'Add a package from a specific branch of a GitHub repository to the current workspace using the GitHub protocol (shorthand)',
'S0 add lodash-es@lodash/lodash#es',
],
])},
(0, a.gn)((C.Command.Rest(), M.prototype, 'packages', void 0),
(0, a.gn)(
    C.Command.Boolean('--json', {       
        description: 'Format the output as an NDJSON stream',
    })),
),
),
M.prototype,
'json',
void 0,
),
(0, a.gn)(
    C.Command.Boolean('-E,--exact', { 
        description: 
            "Don't use any semver modifier on the resolved range",
    })),
),
M.prototype,
'exact',
void 0,
),
(0, a.gn)(
C.Command.Boolean('-T,--tilde', {
    description: '
    Use the `~` semver modifier on the resolved range',
}),
],
M.prototype,
'tilde',
void 0,
),
(0, a.gn)(
    [
        C.Command.Boolean('-C,--caret', {
            description: '
            Use the `^` semver modifier on the resolved range',
        }),
    ],
M.prototype,
'caret',
void 0,
),
(0, a.gn)(
    [
        C.Command.Boolean('-D,--dev', {
            description: 'Add a package as a dev dependency',
        }),
    ],
M.prototype,
'dev',
void 0,
),
(0, a.gn)(
    [
        C.Command.Boolean('-P,--peer', {
            description: 'Add a package as a peer dependency',
        }),
    ],
M.prototype,
'peer',
void 0,
),
(0, a.gn)(
    [
        C.Command.Boolean('-O,--optional', {
            description: 'Add / upgrade a package to an optional regular / peer dependency',
        }),
    ],
]
M.prototype,
'optional',
void 0,
),
(0, a.gn)(
[
C.Command.Boolean('--prefer-dev', {
    description: 'Add / upgrade a package to a dev dependency',
}),
],
M.prototype,
'preferDev',
void 0,
),
(0, a.gn)(
[
C.Command.Boolean('-i,--interactive', {
    description: 'Reuse the specified package from other workspaces in the project',
}),
],
M.prototype,
'interactive',
void 0,
),
(0, a.gn)(
[
C.Command.Boolean('--cached', {
    description: 'Reuse the highest version already used somewhere within the project',
}),
],
M.prototype,
'cached',
void 0,
),
(0, a.gn)([C.Command.Path('add')], M.prototype, 'execute', null)
var R = r(63088)
class x extends c.BaseCommand {
    constructor() {
        super(...arguments), (this.verbose = !1), (this.json = !1)
    }
    async execute() {
        const e = await s.VK.find(this.context.cwd, this.context.plugins),
        { project: t, locator: r } = await h.I.find(e, this.context.cwd)
        if ((await t.restoreInstallState(), this.name)) {
            const A = (
                await R.getPackageAccessibleBinaries(r, { project: t })
            )
        }
    }
}
`Couldn't find a binary named "$\{this.name\}" for package "$\{d.prettyLocator(e, r)}"`,
)
const [, n] = A
return this.context.stdout.write(n + '\n'), 0
}
return (await p.Pk.start(
{
  configuration: e,
  json: this.json,
  stdout: this.context.stdout,
},
async (A) => {
const n = await R.getPackageAccessibleBinaries(r, {
  project: t,
});
o = Array.from(n.keys()).reduce(
  (e, t) => Math.max(e, t.length),
  0,
)
for (const [e, [t, r]] of n)
  A.reportJson({
    name: e,
    source: d.stringifyIdent(t),
    path: r,
  })
if (this.verbose)
  for (const [t, [r]] of n)
    A.reportInfo(null, `${t.padEnd(o, ' ')}   ${d.prettyLocator(e, r)}`)
else for (const e of n.keys()) A.reportInfo(null, e)
});
).exitCode()}
);
}(x.usage = C.Command.Usage({
description: 'get the path to a binary script',
details: `\n  When used without arguments, this command will print the list of all the binaries available in the current workspace. Adding the `-v,--verbose` flag will cause the output to contain both the binary name and the
When an argument is specified, this command will just print the path to the binary on the standard output and exit. Note that the reported path may be stored within a zip archive.

    

examples:

    ['List all the available binaries', '$0 bin'],
    ['Print the path to a specific binary', '$0 bin eslint'],
]}
)
)
)
)
)
)
)
)
)[C.Command.String({ required: !1 })],
    x.prototype,
    'name',
    void 0,
    ),
    (0, a.gn)(
        [C.Command.Boolean('-v,--verbose', {
            description: 'Print both the binary name and the locator of the package that provides the binary',
        }),
    ],
    x.prototype,
    'verbose',
    void 0,
    ),
    (0, a.gn)(
        [C.Command.Boolean('--json', {
            description: 'Format the output as an NDJSON stream',
        }),
    ],
    x.prototype,
    'json',
    void 0,
    ),
    (0, a.gn)([C.Command.Path('bin')], x.prototype, 'execute', null)

class L extends c.BaseCommand {

    constructor() {
        super(...arguments), (this.mirror = !1), (this.all = !1)
    }

    async execute() {
        const e = await s.VK.find(this.context.cwd, this.context.plugins),
        t = await g.C.find(e)

        return {
            async () => {
                const e = (this.all || this.mirror) && null !== t.mirrorCwd,
                p.Pk.start(
                    { configuration: e, stdout: this.context.stdout },
                    async () => {
                        const e = (this.all || this.mirror) && null !== t.mirrorCwd,
r = !this.mirror
e && (await y.xfs.removePromise(t.mirrorCwd)),
   r && (await y.xfs.removePromise(t.cwd))
)}
).exitCode()}
):
;L.usage = C.Command.Usage({
description: 'remove the shared cache files',
details:
   '// This command will remove all the files from the cache
   
   examples: [
   ['Remove all the local archives', '$0 cache clean'],
   
   'Remove all the archives stored in the ~/.yarn directory',
   ' $0 cache clean --mirror',
   
   ],
   ],
   ]
}))
(0, a.gn)(
   [C.Command.Boolean('--mirror', {
description: 'Remove the global cache files instead of the local cache files',
   })],
).prototype,
'mirror',
void 0,
).
(0, a.gn)(
   [C.Command.Boolean('--all', {
description: 'Remove both the global cache files and the local cache files of the current project',
   })],
).prototype,
'cache',
'clean')],
L.prototype,
'execute',
null,
)
var P = r(73632),
O = r(44674),
U = r.n(O),
T = r(31669)

class j extends c.BaseCommand {
constructor() {
    super(...arguments), (this.json = !1), (this.unsafe = !1)
}
async execute() {
    const e = await s.VK.find(this.context.cwd, this.context.plugins),
    t = this.name.replace(/\[.\[\].*$/), ''),
    r = this.name.replace(/[^\[\].]*$/), '')
    if (void 0 === e.settings.get(t))
        throw new C.UsageError(`Couldn't find a configuration settings named "$t"`,
    )
    const A = e.getSpecial(t, {
        hideSecrets: !this.unsafe,
        getNativePaths: !0,
    }),
    n = P.convertMapsToIndexableObjects(A),
    o = r ? U()(n, r) : n,
    i = await p.Pk.start(
    {
        configuration: e,
        includeFooter: !1,
        json: this.json,
        stdout: this.context.stdout,
    },
    async (e) => {
        e.reportJson(o)
    },
    )
    if (!this.json) {
        if ('string' === typeof o)
            return this.context.stdout.write(o + \n'), i.exitCode()
    ;(T.inspect.styles.name = 'cyan'),
    this.context.stdout.write(
    (0, T.inspect)(o, {
        depth: 1 / 0,
        colors: e.get('enableColors'),
        compact: !1,
    }) + \n',
    )
    return i.exitCode()
    }
    }
This command will print a configuration setting. 

Secrets (such as tokens) will be redacted from the output by default. If this behavior isn’t desired, set the `--no-redacted` to get the untransformed value.

Examples:

- 'Print a simple configuration setting',
  'yarn config get yarnPath',

- 'Print a complex configuration setting',
  'yarn config get packageExtensions',

- 'Print a nested field from the configuration',
  'yarn config get npmScopes["my-company"].npmRegistryServer',

- 'Print a token from the configuration',
  'yarn config get npmAuthToken --no-redacted',

- 'Print a configuration setting as JSON',
  'yarn config get packageExtensions --json',

C.Command.Boolean('--json', { description: 'Format the output as an NDJSON stream', })

C.Command.Boolean('--no-redacted', { description: 'Don’t redact secrets (such as tokens) from the output', })
void 0,
),
(0, a, gn)(
  [C.Command.Path('config', 'get')],
  j.prototype,
  'execute',
  null,
)
var Y = r(82558),
  G = r.n(Y),
  H = r(81534),
  J = r.n(H)
class q extends c.BaseCommand {
  constructor() {
    super(...arguments), (this.json = !1), (this.home = !1)
  }
  async execute() {
    const e = await s.VK.find(this.context.cwd, this.context.plugins)
    if (!e.projectCwd)
      throw new C.UsageError('This command must be run from within a project folder',
    )
    const t = this.name.replace(/[^.]*\.$/, ''),
      r = this.name.replace(/^[^]*\./, '')
    if (void 0 === e.settings.get(t))
      throw new C.UsageError(`Couldn't find a configuration settings named "${t}"`,
    )
    const A = this.json ? JSON.parse(this.value) : this.value,
      n = this.home
        ? (e) => s.VK.updateHomeConfiguration(e)
          : (t) => s.VK.updateConfiguration(e.projectCwd, t)
    await n(e) => {
      if (r)
        const t = G(e)
        return J(t, this.name, A), t
      }
    return { ...e, [t]: A }
  }
}
class o = (
  await s.VK.find(this.context.cwd, this.context.plugins)
).getSpecial(t, { hideSecrets: !0, getNativePaths: !0 }),
i = P:convertMapsToIndexableObjects(o),
a = r ? U(i, r) : i
return {
  await p.Pk.start{
    configuration: e,
includeFooter: !1,
stdout: this.context.stdout,
},
async (t) => {
;:(T.inspect.styles.name = 'cyan'),
t.reportInfo(
    u.b.UNNAMED,
    `Successfully set ${this.name} to ${(0, T.inspect)(a, {
        depth: 1 / 0,
        colors: e.get('enableColors'),
        compact: !1,
    }))}`,
)
);
).exitCode()
)

;:(q.usage = C.Command.Usage({
description: 'change a configuration setting',
details:
    `\n    This command will set a configuration setting.\n    This command will set a configuration setting.\n    When used without the `--json` flag, it can only \n    set a simple configuration setting (a string, a number, or a boolean).\n    When used with the `--json` flag, it can \n    set both simple and complex configuration settings, including Arrays and Objects.\n`,
examples: [
    [
        'Set a simple configuration setting (a string, a number, or a boolean)',
        'yarn config set initScope myScope',
    ],
    [
        'Set a simple configuration setting (a string, a number, or a boolean) using the `--json` flag',
        'yarn config set initScope --json "myScope"',
    ],
    [
        'Set a complex configuration setting (an Array) using the `--json` flag',
        'yarn config set unsafeHttpWhitelist --json "["*.example.com", "example.com"]"',
    ],
    [
        'Set a complex configuration setting (an Object) using the `--json` flag',
        'yarn config set packageExtensions --json { "@babel/parser@*": { "dependencies": { "@babel/types": "*" } } }',
    ]
]}
)
async (t) => {
  if (e.invalid.size > 0 && !this.json) {
    for (const [r, A] of e.invalid)
      t.reportError(
        u.b.INVALID_CONFIGURATION_KEY,
        `Invalid configuration key "$[r]" in $[A]`,
      )
    t.reportSeparator()
  }
  if (this.json) {
    const r = P.sortMap(e.settings.keys(), (e) => e)
    for (const A of r) {
      const r = e.settings.get(A),
      n = e.getSpecial(A, {
        hideSecrets: !0,
        getNativePaths: !0,
      }),
      o = e.sources.get(A)
    this.verbose
       ? t.reportJson({ key: A, effective: n, source: o })
       : t.reportJson({
          key: A,
          effective: n,
          source: o,
          ...r,
        })
    } else {
      const r = P.sortMap(e.settings.keys(), (e) => e),
      A = r.reduce((e, t) => Math.max(e, t.length), 0),
      n = {
        breakLength: 1 / 0,
        colors: e.get('enableColors'),
        maxArrayLength: 2,
      }
    if (this.why || this.verbose) {
      const o = r.map(t => {
        const r = e.settings.get(t)
        if (!r)
          throw new Error(
            `Assertion failed: This settings ("${t}") should have been registered`,
          )
      return [  
    t,
```javascript
this.why
? e.sources.get(t) || '<default>'
  : r.description,
]
]),
i = o.reduce((e, [t]) => Math.max(e, t.length), 0)
for (const [r, s] of o)
t.reportInfo(
  null,
  '${r.padEnd(A, ' ')}   ${s.padEnd(i, ' ')}   ${(0, T.inspect)(
    e.getSpecial(r, {
      hideSecrets: !0,
      getNativePaths: !0,
    }),
    n,
  })',
)
}
else
for (const o of r)
t.reportInfo(
  null,
  '${o.padEnd(A, ' ')}   ${(0, T.inspect)(
    e.getSpecial(o, {
      hideSecrets: !0,
      getNativePaths: !0,
    }),
    n,
  })',
)
)
).exitCode()
})

(z.usage = C.Command.Usage(
  description: 'display the current configuration',
  details:
    '
      This command prints the current active configuration settings.
    ',
  examples: [['Print the active configuration settings', '$0 config'],
]),
)
(0, a.gn)(
  [C.Command.Boolean('-v,--verbose', {
      description:
        'Print the setting description on top of the regular key/value information',
    }),
```
z.prototype,
'verbose',
void 0,
),
(0, a.gn)(
  [  
    C.Command.Boolean('--why', {  
      description:  
        'Print the reason why a setting is set a particular way',  
    }),
  ],
z.prototype,
'why',
void 0,
),
(0, a.gn)(
  [  
    C.Command.Boolean('--json', {  
      description: 'Format the output as an NDJSON stream',  
    }),
  ],
z.prototype,
'json',
void 0,
),
(0, a.gn)([C.Command.Path('config')], z.prototype, 'execute', null)

var W,
X = r(15966),
V = r(35691),
_ = r(2401),
Z = r.n(_)
!(function (e) {
  e.HIGHEST = 'highest'
})(W || (W = {}))
const $ = new Set(Object.values(W)),
ee = {
  highest: async (  
    e,
    t,
    { resolver: r, fetcher: A, resolveOptions: n, fetchOptions: o },
  ) => {
    const i = new Map()
    for (const [t, r] of e.storedResolutions) {
      const A = e.storedDescriptors.get(t)
      if (void 0 === A)
        throw new Error(  
          'Assertion failed: The descriptor (${t}) should have been registered',
        )
      i.set
        
    }
  }  

})
P.getSetWithDefault(i, A.identHash).add(r)

return Array.from(e.storedDescriptors.values(), async (A) => {
    if (t.length && !Z().isMatch(d.stringifyIdent(A), t))
        return null

    const o = e.storedResolutions.get(A.descriptorHash)
    if (void 0 === o)
        throw new Error(
            `Assertion failed: The resolution (${A.descriptorHash}) should have been registered`,
        )

    const s = e.originalPackages.get(o)
    if (void 0 === s) return null

    if (!r.shouldPersistResolution(s, n)) return null

    const a = i.get(A.identHash)
    if (void 0 === a)
        throw new Error(
            `Assertion failed: The resolutions (${A.identHash}) should have been registered`,
        )

    if (1 === a.size) return null

    const c = [...a].map(t) => {
        const r = e.originalPackages.get(t)
        if (void 0 === r)
            throw new Error(
                `Assertion failed: The package (${t}) should have been registered`,
            )

        return r.reference
    },
    g = await r.getSatisfying(A, c, n),
    l = null == g ? void 0 : g[0]
    if (void 0 === l) return null

    const u = l.locatorHash,
    h = e.originalPackages.get(u)
    if (void 0 === h)
        throw new Error(
            `Assertion failed: The package (${u}) should have been registered`,
        )

    return u === o
        ? null
        : { descriptor: A, currentPackage: s, updatedPackage: h }
},

class te extends c.BaseCommand {
    constructor() {
        super(...arguments),
        (this.patterns = []),
        (this.strategy = W.HIGHEST),
    }
}

async execute() {
    const e = await s.VK.find(this.context.cwd, this.context.plugins),
    { project: t } = await h.I.find(e, this.context.cwd),
    r = await g.C.find(e)
    let A = 0
    const n = await p.Pk.start(
        {
            configuration: e,
            includeFooter: !1,
            stdout: this.context.stdout,
            json: this.json,
        },
        async (e) => {
            A = await (async function (e,
                { strategy: t, patterns: r, cache: A, report: n },
            ) {
                const { configuration: o } = e,
                i = new I.$(),
                s = o.makeResolver(),
                a = o.makeFetcher(),
                c = {
                    cache: A,
                    checksums: e.storedChecksums,
                    fetcher: a,
                    project: e,
                    report: i,
                    skipIntegrityCheck: !0,
                },
                g = { project: e, resolver: s, report: i, fetchOptions: c }
                return await n.startTimerPromise('Deduplication step',
                    async () => {
                        const A = ee[t],
                        i = await A(e, r, {
                            resolver: s,
                            resolveOptions: g,
                            fetcher: a,
                            fetchOptions: c,
                        }).
                        l = V.yG.progressViaCounter(i.length)
                        n.reportProgress(l)
                        let h,
                        p = 0
                        switch (
(await Promise.all(
  i.map((t) =>
    t
  .then((t) => {
    if (null === t) return
    p++
    const {
      descriptor: r,
      currentPackage: A,
      updatedPackage: i,
    } = t
    n.reportInfo(
      u.b.UNNAMED,
      `\$(d.prettyDescriptor(
        o,
        r,
      ) \} can be deduped from \$(d.prettyLocator(
        o,
        A,
      ) \} to \$(d.prettyLocator(o, i))`",
    ),
    n.reportJson({
      descriptor: d.stringifyDescriptor(r),
      currentResolution: d.stringifyLocator(A),
      updatedResolution: d.stringifyLocator(i),
    }),
    e.storedResolutions.set(
      r.descriptorHash,
      i.locatorHash,
    )
  })
).finally(() => l.tick()),
),
),
p)
) {
  case 0:
    h = 'No packages'
    break
  case 1:
    h = 'One package'
    break
  default:
    h = p + ' packages'
  }
  const C = B.pretty(o, t, B.Type.CODE)
  return (n.reportInfo(
Duplicates are defined as descriptors with overlapping ranges being resolved and locked to different locators. They are a natural consequence of Yarn’s deterministic installs, but they can sometimes pile up and unnecessarily increase the size of your project. This command dedupes dependencies in the current project using different strategies (only one is implemented at the moment) - 'highest': Reuses (where possible) the locators with the highest versions. This means that dependencies can only be upgraded, never downgraded. It's also guaranteed that it never takes more than a single pass to dedupe the entire dependency tree. **Note:** Even
though it never produces a wrong dependency tree, this command should be used with caution, as it modifies the dependency tree, which can sometimes cause problems when packages don't strictly follow semver recommendations. Because of this, it is recommended to also review the changes manually. If set, the `--check` flag will only report the found duplicates, without persisting the modified dependency tree. If changes are found, the command will exit with a non-zero exit code, making it suitable for CI purposes. This command accepts glob patterns as arguments (if valid Idents and supported by [micromatch](https://github.com/micromatch/micromatch)). Make sure to escape the patterns, to prevent your own shell from trying to expand them.

### In-depth explanation:

Yarn doesn't deduplicate dependencies by default, otherwise installs wouldn't be deterministic and the lockfile would be useless. What it actually does is that it tries to not duplicate dependencies in the first place.

**Example:** If `foo@^2.3.4` (a dependency of a dependency) has already been resolved to `foo@2.3.4`, running `yarn add foo@*` will cause Yarn to reuse `foo@2.3.4`, even if the latest `foo` is actually `foo@2.10.14`, thus preventing unnecessary duplication.

Duplication happens when Yarn can't unlock dependencies that have already been locked inside the lockfile.

**Example:** If `foo@^2.3.4` (a dependency of a dependency) has already been resolved to `foo@2.3.4`, running `yarn add foo@2.10.14` will cause Yarn to install `foo@2.10.14` because the existing resolution doesn't satisfy the range `2.10.14`. This behavior can lead to (sometimes) unwanted duplication, since now the lockfile contains two separate resolutions for the `foo` descriptors, even though they have overlapping ranges, which means that the lockfile can be simplified so that both descriptors resolve to `foo@2.10.14`.

Examples:

- Dedupe all packages, `$0 dedupe`
- Dedupe all packages using a specific strategy, `$0 dedupe --strategy highest`
- Dedupe a specific package, `$0 dedupe lodash`
- Dedupe all packages with the `@babel/*` scope, `$0 dedupe '@babel/*'`
- Check for duplicates (can be used as a CI step), `$0 dedupe --check`
C.Command.Boolean('-c,--check', {
    description:
    'Exit with exit code 1 when duplicates are found, without persisting the dependency tree',
}),
].
te.prototype,
'check',
void 0,
),
(0, a.gn)(
  C.Command.Boolean('--json', {
    description: 'Format the output as an NDJSON stream',
  }),
].
te.prototype,
'json',
void 0,
),
(0, a.gn)([C.Command.Path('dedupe')], te.prototype, 'execute', null)
class re extends C.Command {
async execute() {
    const { plugins: e } = await s.VK.find(
        this.context.cwd,
        this.context.plugins,
    ),
    t = []
    for (const r of e) {
        const { commands: e } = r[1]
        if (e) {
            const A = C.Cli.from(e).definitions()
            t.push([r[0], A])
        }
    }
    const A = this.cli.definitions(),
    n = r(60306)('@yarnpkg/builder').bundles.standard
    for (const e of t) {
        const t = e[1]
        for (const r of t)
            A.find((e) => {
                return (t = e.path),
                (A = r.path),
                t.split('').slice(1).join() ===
                A.split('').slice(1).join()
            })
            var t, A
    }).plugin = { name: e[0], isDefault: n.includes(e[0]) }
this.context.stdout.write(
    JSON.stringify({ commands: A }, null, 2) + '\n',
  )
}

();(0, a.gn)(
    [C.Command.Path('--clipanion=definitions')],
    re.prototype,
    'execute',
    null,
  )
class Ae extends C.Command {
    async execute() {
      this.context.stdout.write(this.cli.usage(null))
    }
}

();(0, a.gn)(
  [C.Command.Path('help'),
   C.Command.Path('--help'),
   C.Command.Path('-h'),
  ],
  Ae.prototype,
  'execute',
  null,
)

class ne extends C.Command {
  constructor() {
    super(...arguments), (this.args = [])
  }
  async execute() {
    if (this.leadingArgument.match(/\[/) &&
        !d.tryParseIdent(this.leadingArgument)) {
      const e = m.y1.resolve(
        this.context.cwd,
        m.cS.toPortablePath(this.leadingArgument),
      )
      return await this.cli.run(this.args, { cwd: e })
    }
    return await this.cli.run(
      'run',
      this.leadingArgument,
      ...this.args,
    )
  }
}
class ie extends C.Command {
    async execute() {
        this.context.stdout.write((oe.o || '<unknown>') + '
    }
}

var se = r(6220)
class ae extends c.BaseCommand {
    constructor() {
        super(...arguments), (this.args = [])
    }
    async execute() {
        const e = await s.VK.find(this.context.cwd, this.context.plugins),
            { project: t } = await h.I.find(e, this.context.cwd)
        return await y.xfs.mktempPromise(async (e) => {
            const { code: r } = await se.pipevp(this.commandName, this.args, {
                cwd: this.context.cwd,
                stdin: this.context.stdin,
                stdout: this.context.stdout,
                stderr: this.context.stderr,
                env: await R.makeScriptEnv({ project: t, binFolder: e }),
            })
            return r
        })
    }
}

:ae.usage = C.Command.Usage({
    description: 'execute a shell command',
    details: "This command simply executes a shell binary within the context of the root directory of the active workspace. It also makes sure to call it in a way that's compatible with the current project (for example, on PnP projects the environment will be setup in such a way that PnP will be correctly injected into the environment).",
    examples: [['Execute a shell command', '$0 exec echo Hello World']],
})
var ce = r(36545)
class ge extends c.BaseCommand {
    async execute() {
        const e = await s.VK.find(this.context.cwd, this.context.plugins),
            t = await h.I.find(e, this.context.cwd)
        if ((await t.applyLightResolution(), void 0 !== this.hash))
            return await (async function (e, t, r) {
                const { configuration: A } = t,
                    n = t.peerRequirements.get(e)
                if (void 0 === n)
                    throw new Error(
                        "No peerDependency requirements found for hash: ":{},
                    )
                return (await p.Pk.start(
                        { configuration: A, stdout: r.stdout, includeFooter: !1 },
                        async (e) => {
                            var r, o
                            const i = t.storedPackages.get(n.subject)
                            if (void 0 === i)
                                throw new Error(
                                    'Assertion failed: Expected the subject package to have been registered',
                                )
                            const s = t.storedPackages.get(n.rootRequester)
                            if (void 0 === s)
                                throw new Error(
                                    'Assertion failed: Expected the root package to have been registered',
                                )
                            const a =
                                null !==
                                (r = i.dependencies.get(n.requested.identHash)) &&
                                void 0 !== r
                                    ? r
                                    : null,
                                c =
                                null !== a
                                    ? t.storedResolutions.get(a.descriptorHash)
                                    : null
                            if (void 0 === c)
                                throw new Error(
                                    'Assertion failed: Expected the resolution to have been registered',
                                )
                            const g = null !== c ? t.storedPackages.get(c) : null
                            if (void 0 === g)
throw new Error(
  'Assertion failed: Expected the provided package to have been registered',
)

const l = [...n.allRequesters.values()].map((e) => {
  const r = t.storedPackages.get(e)
  if (void 0 === r)
    throw new Error(
      'Assertion failed: Expected the package to be registered',
    )
  const A = d.devirtualizeLocator(r),
    o = t.storedPackages.get(A.locatorHash)
  if (void 0 === o)
    throw new Error(
      'Assertion failed: Expected the package to be registered',
    )
  const i = o.peerDependencies.get(n.requested.identHash)
  if (void 0 === i)
    throw new Error(
      'Assertion failed: Expected the peer dependency to be registered',
    )
  return { pkg: r, peerDependency: i }
})
if (null !== g) {
  const t = l.every(({ peerDependency: e }) =>
    ce.satisfiesWithPrereleases(g.version, e.range),
  )
  e.reportInfo(
    u.b.UNNAMED,
    `${d.prettyLocator(A, i)} provides ${d.prettyLocator( A,
      g,
    )} with version ${d.prettyReference( A,
      null !== (o = g.version) && void 0 !== o ? o : '<missing>',
    )}, which ${
      t ? 'satisfies' : "doesn't satisfy"
    } the following requirements:`,
  )
} else
  e.reportInfo(
    u.b.UNNAMED,
    `${d.prettyLocator(A, i)} doesn't provide ${d.prettyIdent( A,
    )}
  )
n.requested,
}, breaking the following requirements:

)}

const h = B.mark(A),

p = []
for (const { pkg: e, peerDependency: t } of P.sortMap(
1,
(e) => d.stringifyLocator(e.pkg),
)) {
const r =
null != g &&
ce.satisfiesWithPrereleases(g.version, t.range)
? h.Check
: h.Cross
p.push(
stringifiedLocator: d.stringifyLocator(e),
prettyLocator: d.prettyLocator(A, e),
prettyRange: d.prettyRange(A, t.range),
mark: r,
)
}

const C = Math.max(
...p.map(({ stringifiedLocator: e }) => e.length),
),

f = Math.max(...p.map(({ prettyRange: e }) => e.length))
for (const {
stringifiedLocator: t,
prettyLocator: r,
prettyRange: A,
mark: n,
} of P.sortMap(p, ({ stringifiedLocator: e }) => e))
e.reportInfo(
null,
`$r.padEnd(
C + (r.length - t.length),
' ',
//} ${A.padEnd(f, ' ')} ${n}`,
)
}

p.length > 1 &&
(e.reportSeparator(),
e.reportInfo(
u.b.UNNAMED,
'Note: these requirements start with ' +
d.prettyLocator(t.configuration, s),
))
},
)
project: (this.hash, t, { stdout: this.context.stdout })

return (
    await p.Pk.start(
        {
            configuration: e,
            stdout: this.context.stdout,
            includeFooter: '!
        },
        async (r) => {
            var A
            const n = [
                ([, e]) =>
                    d.stringifyLocator(t.storedPackages.get(e.subject)),
                ([, e]) => d.stringifyIdent(e.requested),
            ]
            for (const [o, i] of P.sortMap(t.peerRequirements, n)) {
                const n = t.storedPackages.get(i.subject)
                if (void 0 === n)
                    throw new Error(
                        'Assertion failed: Expected the subject package to have been registered',
                    )
                const s = t.storedPackages.get(i.rootRequester)
                if (void 0 === s)
                    throw new Error(
                        'Assertion failed: Expected the root package to have been registered',
                    )
                const a =
                    null !== (A = n.dependencies.get(i.requested.identHash)) &&
                    void 0 !== A
                    ? A
                    : null,
                c = B.pretty(e, o, B.Type.CODE),
                g = d.prettyLocator(e, n),
                l = d.prettyIdent(e, i.requested),
                u = d.prettyIdent(e, s),
                h = i.allRequesters.length - 1,
                p = 'descendant' + (1 === h ? '' : 's'),
                C = h > 0 ? ` and ${h} ${p}` : '',
                f = null !== a ? 'provides' : "doesn't provide"
                r.reportInfo(null, `${c}  ${g} ${f} ${l} to ${u}${C}`)
            }
        },
        ).exitCode()
    ));
}
A set of peer requirements represents all peer requirements that a dependent must satisfy when providing a given peer request to a requester and its descendants. When the hash argument is specified, this command prints a detailed explanation of all requirements of the set corresponding to the hash and whether they're satisfied or not. When used without arguments, this command lists all sets of peer requirements and the corresponding hash that can be used to get detailed information about a given set. **Note:** A hash is a six-letter p-prefixed code that can be obtained from peer dependency warnings or from the list of all peer requirements (`yarn explain peer-requirements`).

**Examples:**

```
$0 explain peer-requirements p1a4ed
```

```
$0 explain peer-requirements
```

```javascript
var le = r(85875)
class ue extends c.BaseCommand {
  constructor() {
    super(...arguments),
    (this.all = !1),
    (this.recursive = !1),
    (this.extra = []),
    (this.cache = !1),
    (this.dependents = !1),
    (this.manifest = !1),
    (this.nameOnly = !1),
    (this.virtuals = !1),
    ...}
```
async execute() {
    const e = await s.VK.find(this.context.cwd, this.context.plugins),
    { project: t, workspace: r } = await h.I.find(
        e,
        this.context.cwd,
    ),
    A = await g.C.find(e)
    if (!r && !this.all)
        throw new c.WorkspaceRequiredError(t.cwd, this.context.cwd)
    await t.restoreInstallState()
    const n = new Set(this.extra)
    this.cache && n.add('cache'),
    this.dependents && n.add('dependents'),
    this.manifest && n.add('manifest')
    const o = (e, { recursive: r }) => {
        const A = e.anchoredLocator.locatorHash,
        n = new Map(),
        o = [A]
        for (; o.length > 0; ) {
            const e = o.shift()
            if (n.has(e)) continue
            const i = t.storedPackages.get(e)
            if (void 0 === i)
                throw new Error(
                    'Assertion failed: Expected the package to be registered',
                )
            if (
                n.set(e, i),
                d.isVirtualLocator(i) &&
                o.push(d.devirtualizeLocator(i).locatorHash),
                r || e === A)
        }
        for (const e of i.dependencies.values()) {
            const r = t.storedResolutions.get(e.descriptorHash)
            if (void 0 === r)
                throw new Error(
                    'Assertion failed: Expected the resolution to be registered',
                )
            o.push(r)
        }
    return n.values()
    },
    i = ({ all: e, recursive: A }) =>
    e && A
? t.storedPackages.values()
: e
? (({ recursive: e }) => {

const r = new Map()

for (const A of t.workspaces)
  for (const t of o(A, { recursive: e })),
    r.set(t.locatorHash, t)
  return r.values()
})({ recursive: A })
: o(r, { recursive: A }),

{ selection: a, sortedLookup: l } = (({
  all: e,
  recursive: t,
}) => {
  const r = i({ all: e, recursive: t }),
  A = this.patterns.map((e) => {
    const t = d.parseLocator(e),
    r = Z().makeRe(d.stringifyIdent(t)),
    A = d.isVirtualLocator(t),
    n = A ? d.devirtualizeLocator(t) : t
    return (e) => {
      const o = d.stringifyIdent(e)
      if (!r.test(o)) return !1
      if ('unknown' === t.reference) return '0'
      const i = d.isVirtualLocator(e),
      s = i ? d.devirtualizeLocator(e) : e
      return (!A || !i || t.reference === e.reference) &&
      n.reference === s.reference
    }
  }),
  n = P.sortMap([...r], (e) => d.stringifyLocator(e))
  return {
    selection: n.filter(
      (e) => 0 === A.length || A.some((t) => t(e)),
    ),
    sortedLookup: n,
  }
})(
({ all: this.all, recursive: this.recursive })
if (0 === a.length)
throw new C.UsageError('No package matched your request')
const u = new Map()
if (this.dependents)
for (const e of l)
  for (const r of e.dependencies.values()) {
    const A = t.storedResolutions.get(r.descriptorHash)
    if (void 0 === A)
throw new Error(
  'Assertion failed: Expected the resolution to be registered',
)
  P.getArrayWithDefault(u, A).push(e)
}

const p = new Map()
for (const e of l) {
  if (!d.isVirtualLocator(e)) continue
  const t = d.devirtualizeLocator(e)
  P.getArrayWithDefault(p, t.locatorHash).push(e)
}

const f = {},
  m = { children: f },
  w = e.makeFetcher(),
  Q = {
    project: t,
    fetcher: w,
    cache: A,
    checksums: t.storedChecksums,
    report: new I.$(),
    skipIntegrityCheck: !0,
  },
  D = [
    async (e, t, r) => {
      var A, n
      if (!t.has('manifest')) return
      const o = await w.fetch(e, Q)
      let i
      try {
        i = await E.G.find(o.prefixPath, { baseFs: o.packageFs })
      } finally {
        null === (A = o.releaseFs) || void 0 === A || A.call(o)
      }
      r('Manifest', {
        License: B.tuple(B.Type.NO_HINT, i.license),
        Homepage: B.tuple(
          B.Type.URL,
          null !== (n = i.raw.homepage) && void 0 !== n ? n : null,
        ),
      }),
    },
    async (e, r, n) => {
      var o
      if (!r.has('cache')) return
      const i =
        null !== (o = t.storedChecksums.get(e.locatorHash)) &&
        void 0 !== o ? o : null,
    
    
}
s = A.getLocatorPath(e, i)
let a
if (null !== s)
try {
a = y.xfs.statSync(s)
} catch (e) {
}
const c = void 0 !== a ? [a.size, B.Type.SIZE] : void 0
n('Cache', {
  Checksum: B.tuple(B.Type.NO_HINT, i),
  Path: B.tuple(B.Type.PATH, s),
  Size: c,
})
].
for (const r of a) {
  const A = d.isVirtualLocator(r)
  if (!this.virtuals && & A continue
  const o = {},
    i = { value: [r, B.Type.LOCATOR], children: o }
  if (!!(f[d.stringifyLocator(r)] = i), this.nameOnly) {
    delete i.children
    continue
  }
  const s = p.get(r.locatorHash)
  void 0 !== s &&
    (o.Instances = {
      label: 'Instances',
      value: B.tuple(B.Type.NUMBER, s.length),
    }),
    (o.Version = {
      label: 'Version',
      value: B.tuple(B.Type.NO_HINT, r.version),
    })
  const a = (e, t) => {
    const r = {}
    if (!![o[e] = r], Array.isArray(t)))
      r.children = t.map((e) => ( [ value: e ]))
    else {
      const e = {}
      r.children = e
      for (const [r, A] of Object.entries(t))
        void 0 !== A && (e[r] = { label: r, value: A })
    }
  }
  if (!A) {
    for (const e of D) await e(r, n, a)
    await e.triggerHook((e) => e.fetchPackageInfo, r, n, a)
const c = u.get(r.locatorHash)
void 0 !== c &&
c.length > 0 &&
a(
  'Dependents',
  c.map((e) => B.tuple(B.Type.LOCATOR, e)),
),
r.dependencies.size > 0 &&
!A &&
a(
  'Dependencies',
  [...r.dependencies.values()].map((e) => {
    var r
    const A = t.storedResolutions.get(e.descriptorHash),
    n =
    void 0 !== A &&
    null !== (r = t.storedPackages.get(A)) &&
    void 0 !== r
    ? r
    : null
    return B.tuple(B.Type.RESOLUTION, {
      descriptor: e,
      locator: n,
    })
  })),
),
r.peerDependencies.size > 0 &&
A &&&
a(
  'Peer dependencies',
  [...r.peerDependencies.values()].map((e) => {
    var A, n
    const o = r.dependencies.get(e.identHash),
    i =
    void 0 !== o &&
    null !==
    (A = t.storedResolutions.get(o.descriptorHash)) &&
    void 0 !== A
    ? A
    : null,
    s =
null !== i &&
null !== (n = t.storedPackages.get(i)) &&
void 0 !== n
? n
: null
return B.tuple(B.Type.RESOLUTION, {
  descriptor: e,
  locator: s,
}),
});
)
le.emitTree(m, {
  configuration: e,
  json: this.json,
  stdout: this.context.stdout,
  separators: this.nameOnly ? 0 : 2,
});
}
}
);
(ue.usage = C.Command.Usage({
  description: 'see information related to packages',
  details: `
    This command prints various information related to the specified packages, accepting glob patterns.

    By default, if the locator reference is missing, Yarn will default to print the information about all the matching
direct dependencies of the package for the active workspace. To instead print all versions of the package that are
direct dependencies of any of your workspaces, use the `-A,--all` flag. Adding the `-R,--recursive` flag will also
report transitive dependencies.

    Some fields will be hidden by default in order to keep the output readable, but
can be selectively displayed by using additional options (`--dependents`, `--manifest`, `--virtuals`, ...) described in
the option descriptions.

    Note that this command will only print the information directly related to the selected packages - if you wish to know why the package is there in the first place, use `yarn why` which will do just that (it
also provides a `-R,--recursive` flag that may be of some help).

    examples: ['Show information about Lodash', '$0 info lodash'],
``
});
),
(0, a.gn)(
  C.Command.Boolean('-A,--all', {
    description: 'Print versions of a package from the whole project',
  }),
],
ue.prototype,
all, void 0,
),
(0, a.gn)(
  C.Command.Boolean('-R,--recursive', {

description:
  'Print information for all packages, including transitive dependencies',
});
.
ue.prototype,
'recursive',
void 0,
);
(0, a.gn)(
  [  
    C.Command.Array('-X,--extra', {  
      description:
        'An array of requests of extra data provided by plugins',  
    }),
  ],
ue.prototype,
'extra',
void 0,
),
(0, a.gn)(
  [  
    C.Command.Boolean('--cache', {  
      description:
        'Print information about the cache entry of a package (path, size, checksum)',  
    }),
  ],
ue.prototype,
'cache',
void 0,
),
(0, a.gn)(
  [  
    C.Command.Boolean('--dependents', {  
      description: 'Print all dependents for each matching package',  
    }),
  ],
ue.prototype,
'dependents',
void 0,
),
(0, a.gn)(
  [  
    C.Command.Boolean('--manifest', {  
      description:  
        'Print data obtained by looking at the package archive (license, homepage, ...)',  
    }),
  ],
ue.prototype,
var he = r(11640),
    pe = r(5864)

class de extends c.BaseCommand {
    constructor() {
        super(...arguments),
        (this.json = !1),
        (this.checkCache = !1),
        (this.skipBuilds = !1),
        (this.silent = !1)
    }
    async execute() {
        var e, t, r
        const A = await s.VK.find(this.context.cwd, this.context.plugins)
void 0 !== this.inlineBuilds &&
A.useWithSource(
  '<cli>',
  { enableInlineBuilds: this.inlineBuilds },
A.startingCwd,
  { overwrite: !0 },
)

const n = !!process.env.NOW_BUILDER,
o = !!process.env.NETLIFY,
i = !!process.env.FUNCTION_TARGET || !!process.env.GOOGLE_RUNTIME,
a = async (e, { error: t }) => {
  const r = await p.Pk.start(
    {
      configuration: A,
      stdout: this.context.stdout,
      includeFooter: !1,
    },
    async (r) => {
      t
      ? r.reportError(u.b.DEPRECATED_CLI_SETTINGS, e)
        : r.reportWarning(u.b.DEPRECATED_CLI_SETTINGS, e)
    },
  )
  return r.hasErrors() ? r.exitCode() : null
}

if (void 0 !== this.ignoreEngines) {
  const e = await a(
    "The --ignore-engines option is deprecated; engine checking isn't a core feature anymore",
    { error: !n },
  )
  if (null !== e) return e
}

if (void 0 !== this.registry) {
  const e = await a(
    "The --registry option is deprecated; prefer setting npmRegistryServer in your .yarnrc.yml file",
    { error: !1 },
  )
  if (null !== e) return e
}

if (void 0 !== this.preferOffline) {
  const e = await a(
    "The --prefer-offline flag is deprecated; use the --cached flag with 'yarn add' instead",
    { error: !n },
  )
  if (null !== e) return e
}

if (void 0 !== this.production) {
  const e = await a(
"The --production option is deprecated on 'install'; use 'yarn workspaces focus' instead", [ error: !0 ],
if (null !== e) return e
}
if (void 0 !== this.nonInteractive) {
    const e = await a('The --non-interactive option is deprecated', [ error: !i ],
} if (null !== e) return e
}
if (void 0 !== this.frozenLockfile) {
    const e = await a('The --frozen-lockfile option is deprecated; use --immutable and/or --immutable-cache instead', [ error: !i && !pe.TRAVIS ],
} if (null !== e) return e
}
if (void 0 !== this.cacheFolder) {
    const e = await a('The cache-folder option has been deprecated; use rc settings instead', [ error: !o ],
} if (null !== e) return e
}
const l =
    void 0 === this.immutable && void 0 === this.frozenLockfile
? null !== (e = A.get('enableImmutableInstalls')) &&
    void 0 !== e &&
    e
: null !==
    (r =
    null !== (t = this.immutable) && void 0 !== t
    ? t
    : this.frozenLockfile) &&
    void 0 !== r &&
    r
if (null !== A.projectCwd) {
    const e = await p.Pk.start(
    { configuration: A,
        json: this.json,
        stdout: this.context.stdout,
        includeFooter: !1,
    },
    async (e) => {
        (await (async function (e, t) {
            if (!e.projectCwd) return !1
            return e
        })(e, t))
    })
}
const r = m.y1.join(e.projectCwd, e.get('lockfileFilename'))
if (!(await y.xfs.existsPromise(r))) return !1
const A = await y.xfs.readFilePromise(r, 'utf8')
if (!A.includes('<<<<<<<')) return !1
if (t)
    throw new V.lk(
        u.b.AUTO MERGE_IMMUTABLE,
        'Cannot autofix a lockfile when running an immutable install',
        )
const [n, o] = (function (e) {
    const t = [[], []],
        r = e.split(/?
/g)
    let A = !1
    for (; r.length > 0; ) {
        const e = r.shift()
        if (void 0 === e)
            throw new Error(
                'Assertion failed: Some lines should remain',
            )
        if (e.startsWith('<<<<<<<')) {
            for (; r.length > 0; ) {
                const e = r.shift()
                if (void 0 === e)
                    throw new Error(
                        'Assertion failed: Some lines should remain',
                    )
                if ('=======' === e) {
                    A = !1
                    break
                }
            }
            for (; r.length > 0; ) {
                const e = r.shift()
                if (void 0 === e)
                    throw new Error(
                        'Assertion failed: Some lines should remain',
                    )
                if ('=======' === e) {
                    A = !1
                    break
                }
            }  
        } else t[0].push(e), t[1].push(e)
    }
    return [t[0].join('
'), t[1].join('
')]
})(A)
let i, s
try {
    ;(i = (0, he.parseSyml)(n)), (s = (0, he.parseSyml)(o))
} catch (e) {
    throw new V.lk(
        u.b.AUTOMERGE_FAILED_TO_PARSE,
        'The individual variants of the lockfile failed to parse',
    )
}

const a = { ...i, ...s }
for (const [e, t] of Object.entries(a))
    'string' == typeof t && delete a[e]
return (
    await y.xfs.changeFilePromise(
        r,
        (0, he.stringifySyml)(a),
        { automaticNewlines: !0 },
    ),
    !0
)
)

(A, l)) &&
    (e.reportInfo(
        u.b.AUTOMERGE_SUCCESS,
        'Automatically fixed merge conflicts',
    ),
    e.reportSeparator()
},
)

if (e.hasErrors()) return e.exitCode()

if (null !== A.projectCwd) {
    const e = await p.Pk.start(
        {
            configuration: A,
            json: this.json,
            stdout: this.context.stdout,
            includeFooter: !1,
        },
    ).async (e) => {
        var t
        ;(null === (t = s.VK.telemetry) || void 0 === t
            ? void 0
            : t.isNew) &&
        (e.reportInfo(
            u.b.TELEMETRY_NOTICE,
            'Yarn will periodically gather anonymous telemetry: https://yarnpkg.com/advanced/telemetry',
        ),
        e.reportInfo(
            u.b.TELEMETRY_NOTICE,
'Run ${B.pretty(A,'yarn config set --home enableTelemetry 0',B.Type.CODE,}) to disable',
},
e.reportSeparator())
)
if (e.hasErrors()) return e.exitCode()
}
const { project: d, workspace: C } = await h.I.find(A,
this.context.cwd,
),
f = await g.C.find(A,

immutable: this.immutableCache,
check: this.checkCache,
})
if (!C) throw new c.WorkspaceRequiredError(d.cwd, this.context.cwd)
await d.restoreInstallState({ restoreResolutions: !1 })
return (await p.Pk.start(
{
configuration: A,
json: this.json,
stdout: this.context.stdout,
includeLogs: !0,
},
async (e) => {
await d.install({


})
},
).
exitCode()
}
);

de.usage = C.Command.Usage({
description:'install the project dependencies',
details:
"in This command setup your project if needed. The installation is splitted in four different steps that each have their own characteristics:

- **Resolution:** First the package manager will resolve your dependencies. The exact way a dependency version is privileged over another isn't standardized outside of the regular semver guarantees. If a package doesn't resolve to what you would expect, check that all dependencies are correctly
- **Fetch:** Then we download all the dependencies if needed, and make sure that they're all stored within our cache (check the value of `cacheFolder` in `yarn config` to see where are stored the cache files).

- **Link:** Then we send the dependency tree information to internal plugins tasked from writing them on the disk in some form (for example by generating the .pnp.js file you might know).

- **Build:** Once the dependency tree has been written on the disk, the package manager will now be free to run the build scripts for all packages that might need it, in a topological order compatible with the way they depend on one another.

Note that running this command is not part of the recommended workflow. Yarn supports zero-installs, which means that as long as you store your cache and your .pnp.js file inside your repository, everything will work without requiring any install right after cloning your repository or switching branches.

If the `--immutable` option is set, Yarn will abort with an error exit code if the lockfile was to be modified (other paths can be added using the `immutablePaths` configuration setting). For backward compatibility we offer an alias under the name of `--frozen-lockfile`, but it will be removed in a later release.

If the `--immutable-cache` option is set, Yarn will abort with an error exit code if the cache folder was to be modified (either because files would be added, or because they'd be removed).

If the `--check-cache` option is set, Yarn will always refetch the packages and will ensure that their checksum matches what’s described in the lockfile inside the existing cache files (if present). This is recommended as part of your CI workflow if you're both following the Zero-Installs model and accepting PRs from third-parties, as they'd otherwise have the ability to alter the checked-in packages before submitting them.

If the `--inline-builds` option is set, Yarn will verbosely print the output of the build steps of your dependencies (instead of writing them into individual files). This is likely useful mostly for debug purposes only when using Docker-like environments.

If the `--skip-builds` option is set, Yarn will not run the build scripts at all. Note that this is different from setting `enableScripts` to false because the latter will disable build scripts, and thus affect the content of the artifacts generated on disk, whereas the former will just disable the build step - but not the scripts themselves, which just won't run.

Examples:

```javascript
['Install the project', '$0 install'],

'Validate a project when using Zero-Installs',
'$0 install --immutable --immutable-cache',

'Validate a project when using Zero-Installs (slightly safer if you accept external PRs)',
'$0 install --immutable --immutable-cache --check-cache',
```

...
C.Command.Boolean('--immutable', {  
  description:  
    'Abort with an error exit code if the lockfile was to be modified',  
  }).
].
de.prototype,  
'imutable',  
void 0,  
).
(0, a.gn)(  
  C.Command.Boolean('--immutable-cache', {  
    description:  
      'Abort with an error exit code if the cache folder was to be modified',  
  }).
].
de.prototype,  
'imutableCache',  
void 0,  
).
(0, a.gn)(  
  C.Command.Boolean('--check-cache', {  
    description:  
      'Always refetch the packages and ensure that their checksums are consistent',  
  }).
].
de.prototype,  
'checkCache',  
void 0,  
).
(0, a.gn)(  
  [C.Command.Boolean('--production', { hidden: !0 })],
de.prototype,  
'production',  
void 0,  
).
(0, a.gn)(  
  [C.Command.Boolean('--non-interactive', { hidden: !0 })],
de.prototype,  
'nonInteractive',  
void 0,  
).
(0, a.gn)(  
  [C.Command.Boolean('--frozen-lockfile', { hidden: !0 })],
de.prototype,  
'frozenLockfile',  
void 0,
(0, a.gn)(
  [C.Command.Boolean('--prefer-offline', { hidden: '0 ' })],
  de.prototype,
  'preferOffline',
  void 0,
),
(0, a.gn)(
  [C.Command.Boolean('--ignore-engines', { hidden: '0 ' })],
  de.prototype,
  'ignoreEngines',
  void 0,
),
(0, a.gn)(
  [C.Command.String('--registry', { hidden: '0 ' })],
  de.prototype,
  'registry',
  void 0,
),
(0, a.gn)(
  [
    C.Command.Boolean('--inline-builds', {
      description: 'Verbosely print the output of the build steps of dependencies',
    })],
  de.prototype,
  'inlineBuilds',
  void 0,
),
(0, a.gn)(
  [
    C.Command.Boolean('--skip-builds', {
      description: 'Skip the build step altogether',
    })],
  de.prototype,
  'skipBuilds',
  void 0,
),
(0, a.gn)(
  [C.Command.String('--cache-folder', { hidden: '0 ' })],
  de.prototype,
  'cacheFolder',
  void 0,
),
(0, a.gn)(
  [C.Command.Boolean('--silent', { hidden: '0 ' })],
  de.prototype,
  'silent',
  void 0,
)
class Ce extends c.BaseCommand {
    constructor() {
        super(...arguments),
        (this.all = !1),
        (this.private = !1),
        (this.relative = !1)
    }
    async execute() {
        const e = await s.VK.find(this.context.cwd, this.context.plugins),
            project: t, workspace: r = await h.I.find( e,
                this.context.cwd,
            ),
        A = await g.C.find(e)
        if (!r) throw new c.WorkspaceRequiredError(t.cwd, this.context.cwd)
        const n = m.y1.resolve( this.context.cwd,
            m.cS.toPortablePath(this.destination),
        ),
        o = await s.VK.find(n, this.context.plugins),
            project: i, workspace: a = await h.I.find(o, n)
        if (!a) throw new c.WorkspaceRequiredError(i.cwd, n)
        const l = t.topLevelWorkspace,
        u = []
        if (this.all) {
            for (const e of i.workspaces)
                !e.manifest.name ||
                (e.manifest.private && !this.private) ||
                u.push(e)
            if (0 === u.length)
                throw new C.UsageError(
                    'No workspace found to be linked in the target project',
                )
        } else {
            if (!a.manifest.name)
                throw new C.UsageError(
                    "The target workspace doesn't have a name and thus cannot be linked",
                )
        }
    }
}
if (a.manifest.private && !this.private)
  throw new C.UsageError(
    'The target workspace is marked private - use the --private flag to link it anyway',
  )
  u.push(a)
}

for (const e of u) {
  const r = d.stringifyIdent(e.locator),
    A = this.relative ? m.y1.relative(t.cwd, e.cwd) : e.cwd
  l.manifest.resolutions.push({
    pattern: { descriptor: { fullName: r } },
    reference: `portal:${A}
  })
}

return (
  await p.Pk.start(  
    { configuration: e, stdout: this.context.stdout },
    async (e) => {
      await t.install({ cache: A, report: e })
    },
  ).exitCode()
)

;(Ce.usage = C.Command.Usage({
  description: 'connect the local project to another one',
  details: 
    '
      This command will set a new `resolutions` field in the project-level manifest and point it to the
    workspace at the specified location (even if part of another project).
      There is no `yarn unlink` command. To
    unlink the workspaces from the current project one must revert the changes made to the `resolutions` field.
    ',
  examples: [
    [
      'Register a remote workspace for use in the current project',
      `$0 link ~/ts-loader`,
    ],
    [
      'Register all workspaces from a remote project for use in the current project',
      `$0 link ~/jest --all`
    ],
  ]),
)(0, a.gn)([C.Command.String()], Ce.prototype, 'destination', void 0),
(0, a.gn)(
  [  
    C.Command.Boolean('-A,--all', {
      description: 
        'Link all workspaces belonging to the target project to the current one',
    })],
)
```
Ce.prototype,
'all',
void 0,
),
(0, a.gn)(
  [C.Command.Boolean('-p,--private', {
    description: 
    'Also link private workspaces belonging to the target project to the current one',
  })),
],
Ce.prototype,
'private',
void 0,
),
(0, a.gn)(
  [C.Command.Boolean('-r,--relative', {
    description: 
    'Link workspaces using relative paths instead of absolute paths',
  })),
],
Ce.prototype,
'relative',
void 0,
),
(0, a.gn)([C.Command.Path('link')], Ce.prototype, 'execute', null)
class fe extends c.BaseCommand {
  constructor() {
    super(...arguments), (this.args = [])
  }
  async execute() {
    return this.cli.run(['exec', 'node', ...this.args])
  }
}
```

```
This command simply runs Node. It also makes sure to call it in a way that's compatible with the current project (for example, on PnP projects the environment will be setup in such a way that PnP will be correctly injected into the environment).

The Node process will use the exact same version of Node as the one used to run Yarn itself, which might be a good way to ensure that your commands always use a consistent Node version.
```

```
examples: [['Run a Node script', '$0 node ./my-script.js']],
})
```

```
(0, a.gn)([C.Command.Proxy()], fe.protoype, 'args', void 0),
(0, a.gn)([C.Command.Path('node')], fe.protoype, 'execute', null)
```
var Ie = r(20624),
Ee = r(12087),
Be = r(85622),
ye = r.n(Be),
me = r(79669)

class we extends c.BaseCommand {

constructor() {
    super(...arguments), (this.onlyIfNeeded = !1)
}

async execute() {
    const e = await s.VK.find(this.context.cwd, this.context.plugins)
    if (e.get('yarnPath') && this.onlyIfNeeded) return 0
    let t
    if ('latest' === this.version || 'berry' === this.version)
        t = 'https://github.com/yarnpkg/berry/raw/master/packages/yarnpkg-cli/bin/yarn.js'
    else if ('classic' === this.version)
        t = 'https://nightly.yarnpkg.com/latest.js'
    else if (ce.satisfiesWithPrereleases(this.version, '>=2.0.0'))
        t = 'https://github.com/yarnpkg/berry/raw/%40yarnpkg/cli/%{this.version}/packages/yarnpkg-cli/bin/yarn.js'
    else {
        if (!ce.satisfiesWithPrereleases(this.version, '^0.x || ^1.x'))
            throw Q().validRange(this.version)
        ? new C.UsageError(
            "Support for ranges got removed - please use the exact version you want to install, or 'latest' to get the latest build available",
        )
        : new C.UsageError(
            'Invalid version descriptor "${this.version}"',
        )
        t = 'https://github.com/yarnpkg/yarn/releases/download/v${this.version}/yarn-${this.version}.js'
    }
    return (await p.Pk.start(  
        { configuration: e, stdout: this.context.stdout },
        async (r) => {
            r.reportInfo(u.b.UNNAMED,
                'Downloading ' + B.pretty(e, t, 'green'),
            )
            const A = await me.get(t, { configuration: e })
            await Qe(e, null, A, { report: r })
        },
    )).exitCode()
}

async function Qe(e, t, r, { report: A }) {
}
```javascript
const n = e.projectCwd ? e.projectCwd : e.startingCwd
null === t &&
  (await y.xfs.mktempPromise(async (e) => {
    const A = m.y1.join(e, 'yarn.cjs')
    await y.xfs.writeFilePromise(A, r)
    const { stdout: o } = await se.execvp(
      process.execPath,
      [m.cS.fromPortablePath(A), '--version'],
      { cwd: n, env: { ...process.env, YARN_IGNORE_PATH: '1' } }
    )
    if (((t = o.trim()), !Q().valid(t)))
      throw new Error('Invalid semver version')
  })
const o = m.y1.resolve(n, '.yarn/releases'),
i = m.y1.resolve(o, `yarn-${t}.cjs`),
a = m.y1.relative(e.startingCwd, i),
c = m.y1.relative(n, i),
g = e.get('yarnPath'),
l = null === g || g.startsWith(o + '/'),
A.reportInfo(u.b.UNNAMED,
  'Saving the new release in ' + B.pretty(e, a, 'magenta'),
),
await y.xfs.removePromise(m.y1.dirname(i)),
await y.xfs.mkdirPromise(m.y1.dirname(i), { recursive: !0 }),
await y.xfs.writeFilePromise(i, r),
await y.xfs.chmodPromise(i, 493),
l && (await s.VK.updateConfiguration(n, { yarnPath: c }))
};(we.usage = C.Command.Usage({
description: 'lock the Yarn version used by the project',
details:
  '\n  This command will download a specific release of Yarn directly from the Yarn GitHub repository, will
  store it inside your project, and will change the `yarnPath` settings from your project `.yarnrc.yml` file to point to
  the new file.\n  A very good use case for this command is to enforce the version of Yarn used by the any single
  member of your team inside a same project - by doing this you ensure that you have control on Yarn upgrades and
downgrades (including on your deployment servers), and get rid of most of the headaches related to someone using a
  slightly different version and getting a different behavior than you.\n  ',
examples: [
  [  
    'Download the latest release from the Yarn repository',
    '$0 set version latest',
  ],
  [  
    'Download the latest classic release from the Yarn repository',
    '$0 set version classic',
  ],
  ['Download a specific Yarn 2 build', '$0 set version 2.0.0-rc.30'],
};

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```
[
'Switch back to a specific Yarn 1 release',
'$0 set version 1.22.1',
],
],
})),
(0, a.gn)(
[
C.Command.Boolean('--only-if-needed', {
description:
"Only lock the Yarn version if it isn't already locked",
}),
],
we.prototype,
'onlyIfNeeded',
void 0,
),
(0, a.gn)([C.Command.String()], we.prototype, 'version', void 0),
(0, a.gn)(
[
C.Command.Path('policies', 'set-version'),
C.Command.Path('set', 'version'),
],
we.prototype,
'execute',
null,
)
const De = /^[0-9]+$/
function be(e) {
return De.test(e) ? `pull/${e}/head` : e
}
class ve extends c.BaseCommand {
constructor() {
super(...arguments),
(this.repository = 'https://github.com/yarnpkg/berry.git'),
(this.branch = 'master'),
(this.plugins = []),
(this.noMinify = !1),
(this.force = !1)
}
async execute() {
const e = await s.VK.find(this.context.cwd, this.context.plugins),
t=
void 0 !== this.installPath
? m.y1.resolve(
this.context.cwd,
m.cS.toPortablePath(this.installPath),
)

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await p.Pk.start(
    { configuration: e, stdout: this.context.stdout },
    async (r) => {
        await ke(this, { configuration: e, report: r, target: t }),
        r.reportSeparator(),
        r.reportInfo(u.b.UNNAMED, 'Building a fresh bundle'),
        r.reportSeparator(),
        await Se(([{ plugins: e, noMinify: t }, r]) => [
            'yarn',
            'build:cli',
            ...new Array().concat(...
                e.map((e) => ['--plugin', ye().resolve(r, e)]),
            ),
            ...(t ? ['--no-minify'] : []),
            '|',
            ],
        )(),
        { configuration: e, context: this.context, target: t },
    ),
    r.reportSeparator()
    const A = m.y1.resolve(t,
        'packages/yarnpkg-cli/bundles/yarn.js',
    ),
    n = await y.xfs.readFilePromise(A)
    await Qe(e, 'sources', n, { report: r })
),
).exitCode()
strict: !0,
})
else {
  r.stdout.write(B.pretty(t, ' $ ' + [n, ...o].join(' '), 'grey') + '
)
try {
  await se.execvp(n, o, { cwd: A, strict: !0 })
} catch (e) {
  throw (r.stdout.write(e.stdout || e.stack), e)
}
}
}
async function ke(e, { configuration: t, report: r, target: A }) {
let n = !1
if (!e.force && y.xfs.existsSync(m.y1.join(A, '.git'))) {
  r.reportInfo(u.b.UNNAMED, 'Fetching the latest commits'),
  r.reportSeparator()
  try {
    await Se(({ branch: e }) => [
      ['git', 'fetch', 'origin', be(e), '--force'],
      ['git', 'reset', '--hard', 'FETCH_HEAD'],
      ['git', 'clean', '-dfx'],
    ])(e),
    (n = !0)
  } catch (e) {
    r.reportSeparator(),
    r.reportWarning(u.b.UNNAMED, 'Repository update failed; we\'ll try to regenerate it',
    )
  }
  (n = !0)
} catch (e) {
  r.reportSeparator(),
  r.reportWarning(u.b.UNNAMED, 'Cloning the remote repository'),
  r.reportSeparator(),
  await y.xfs.removePromise(A),
  await y.xfs.mkdirPromise(A, { recursive: !0 }),
  await Se(({ repository: e, branch: t }, r) => [
    ['git', 'init', m.cS.fromPortablePath(r)],
    ['git', 'remote', 'add', 'origin', e],
    ['git', 'fetch', 'origin', be(t)],
    ['git', 'reset', '--hard', 'FETCH_HEAD'].
  ])(e),
}
This command will clone the Yarn repository into a temporary folder, then build it. The resulting bundle will then be copied into the local project.

examples: [['Build Yarn from master', '$0 set version from sources'],
]);)

C.Command.String('--path', {
  description: 'The path where the repository should be cloned to',
});
].ve.prototype,
'installPath',
void 0,
),

C.Command.String('--repository', {
  description: 'The repository that should be cloned',
});
].ve.prototype,
'repository',
void 0,
),

C.Command.String('--branch', {
  description: 'The branch of the repository that should be cloned',
});
].ve.prototype,
'branch',
void 0,
),

C.Command.Array('--plugin', {
  description: 'An array of additional plugins that should be included in the bundle',
})
async function Ke(e) {
    const t = await me.get('https://raw.githubusercontent.com/yarnpkg/berry/master/plugins.yml', { configuration: e },)
    return (0, he.parseSyml)(t.toString())
}

class Me extends c.BaseCommand {
    constructor() {
        super(...arguments), (this.json = !1)
    }
    async execute() {
const e = await s.VK.find(this.context.cwd, this.context.plugins)
return (
    await p.Pk.start(
        {
            configuration: e,
            json: this.json,
            stdout: this.context.stdout,
        },
        async (t) => {
            const r = await Ke(e)
            for (const [e, { experimental: A, ...n }] of Object.entries(r,
                )) {
                let r = e
                A && (r += ' [experimental]').
                t.reportJson({ name: e, experimental: A, ...n } ),
                t.reportInfo(null, r)
            }
        },
    ).exitCode()
)

;(Me.usage = C.Command.Usage({
    category: 'Plugin-related commands',
    description: 'list the available official plugins',
    details: 
        '
        This command prints the plugins available directly from the Yarn repository. Only those plugins can be referenced by name in `yarn plugin import`.
        
        examples: [['List the official plugins', '$0 plugin list']].
    })),
    (0, a.gn)(
        [C.Command.Boolean('--json', {
            description: 'Format the output as an NDJSON stream',
        })),
        Me.prototype,
        'json',
        void 0,
    ),
    (0, a.gn)(
        [C.Command.Path('plugin', 'list')],
        Me.prototype,
        'execute',
        null,
    )
}(0, a.gn)
async execute() {
  const e = await s.VK.find(this.context.cwd, this.context.plugins)
  return (
    await p.Pk.start(
      { configuration: e, stdout: this.context.stdout },
      async (t) => {
        const { project: r } = await h.I.find(e, this.context.cwd)
        let A, n
        if ()
          const o = m.y1.resolve(
            this.context.cwd,
            m.cS.toPortablePath(this.name),
          )
          t.reportInfo(
            u.b.UNNAMED,
            'Reading ' + B.pretty(e, o, B.Type.PATH),
          ),
          (A = m.y1.relative(r.cwd, o)),
          (n = await y.xfs.readFilePromise(o))
        else {
          let r
          if (this.name.match(/^https?:/)) {
            try {
              new Ne.URL(this.name)
            } catch (e) {
              throw new V.lk(  
                u.b.INVALID_PLUGIN_REFERENCE,
                'Plugin specifier "$\{this.name\}" is neither a plugin name nor a valid url',
              )
            }
          }
          :(A = this.name), (r = this.name)
        } else {
          const t = d.parseIdent(
            this.name.replace(  
              /^((@yarnpkg/)?plugin-)?/,  
              '@yarnpkg/plugin-',
            ),
          ),
          n = d.stringifyIdent(t),
          o = await Ke(e)
          if (!Object.prototype.hasOwnProperty.call(o, n))
            throw new V.lk(  
              u.b.PLUGIN_NAME_NOT_FOUND,
              'Couldn't find a plugin named "$\{n\}" on the remote registry. Note that only the plugins referenced on our website (https://github.com/yarnpkg/berry/blob/master/plugins.yml) can be referenced by their name; any
other plugin will have to be referenced through its public url (for example

```javascript
async function xe(e, t, { project: r, report: A }) {
    const { configuration: n } = r,
    o = {},
    i = { exports: o }
    ;(0, Fe.runInNewContext)(t.toString(), { module: i, exports: o })
    const a = i.exports.name,
    c = `.yarn/plugins/${a}.cjs`,
    g = m.y1.resolve(r.cwd, c)
    A.reportInfo( 
        u.b.UNNAMED, 
        'Saving the new plugin in ' + B.pretty(n, c, 'magenta'), 
    ),
    await y.xfs.mkdirPromise(m.y1.dirname(g), { recursive: !0 }),
    await y.xfs.writeFilePromise(g, t)
    const l = { path: c, spec: e } 
    await s.VK.updateConfiguration(r.cwd, (e) => {
        const t = []
        let A = !1
        for (const n of e.plugins || []) {
            const e = 'string' != typeof n ? n.path : n,
            o = m.y1.resolve(r.cwd, m.cS.toPortablePath(e)),
            { name: i } = P.dynamicRequire(m.cS.fromPortablePath(o))
            i !== a ? t.push(n) : (A = !0))
        return A || t.push(l), { ...e, plugins: t }
    })
} 
```

:(Re.usage = C.Command.Usage(
    category: 'Plugin-related commands',
    description: 'download a plugin',
    details:
This command downloads the specified plugin from its remote location and updates the configuration to reference it in future CLI invocations.

Three types of plugin references are accepted:

- If the plugin is stored within the Yarn repository, it can be referenced by name.
- Third-party plugins can be referenced directly through their public urls.
- Local plugins can be referenced by their path on the disk.

Plugins cannot be downloaded from the npm registry, and aren't allowed to have dependencies (they need to be bundled into a single file, possibly thanks to the `@yarnpkg/builder` package).

Examples:

```
- Download and activate the "@yarnpkg/plugin-exec" plugin,
  '$0 plugin import @yarnpkg/plugin-exec',
-
- Download and activate the "@yarnpkg/plugin-exec" plugin (shorthand),
  '$0 plugin import exec',
-
- Download and activate a community plugin,
  '$0 plugin import https://example.org/path/to/plugin.js',
-
- Activate a local plugin, '$0 plugin import ./path/to/plugin.js'
```

```
import { Command } from 'commander';
import { resolve } from 'path';
import { tmpdir } from 'os';
import { user, root } from 'fs';

const yM = require('yarn');
const C = require('commander');
const Re = require('repl');
const Ee = require('eejs');
const m = require('magic');

class Le extends C.BaseCommand {
constructor() {
  super(...arguments),
  (this.repository = 'https://github.com/yarnpkg/berry.git'),
  (this.branch = 'master'),
  (this.noMinify = !1),
  (this.force = !1)
}  
async execute() {
  const e = await s.VK.find(this.context.cwd, this.context.plugins),
  t =
  void 0 !== this.installPath
  ? m.y1.resolve(
      this.context.cwd,
      m.cS.toPortablePath(this.installPath),
    )
  : m.y1.resolve(
      m.cS.toPortablePath((0, Ee.tmpdir)()),
      'yarnpkg-sources',
    )
```
Ie.makeHash(this.repository).slice(0, 6),
)
return (
await p.Pk.start(
{ configuration: e, stdout: this.context.stdout },
async (r) => {
const { project: A } = await h.I.find(e, this.context.cwd),
  n = d.parseIdent(
      this.name.replace(
          /^((@yarnpkg\/')?plugin-)?/,
          '@yarnpkg/plugin-',
      ),
  ),
o = d.stringifyIdent(n),
i = await Ke(e)
if (!Object.prototype.hasOwnProperty.call(i, o))
throw new V.lk(
  u.b.PLUGIN_NAME_NOT_FOUND,
  'Couldn't find a plugin named "$\{o\}" on the remote registry. Note that only the plugins referenced on our website (https://github.com/yarnpkg/berry/blob/master/plugins.yml) can be built and imported from sources.
',
)
const s = o,
a = s.replace(/@yarnpkg\//, '')
await ke(this, { configuration: e, report: r, target: t }),
r.reportSeparator(),
r.reportInfo(u.b.UNNAMED, 'Building a fresh ' + a),
r.reportSeparator(),
await Se(
  ({ pluginName: e, noMinify: t }, r) => [
    ['yarn',
      'build:' + e,
      ...(t ? ['--no-minify'] : []),
      ''],
  ],
  ({ pluginName: a, noMinify: this.noMinify }),
  { configuration: e, context: this.context, target: t },
),
r.reportSeparator()
const c = m.y1.resolve(t, `packages/$\{a\}/bundles/$\{s\}.js`),
g = await y.xfs.readFilePromise(c)
await xe(s, g, { project: A, report: r })
},
).exitCode()
category: 'Plugin-related commands',
description: 'build a plugin from sources',
details:

This command clones the Yarn repository into a temporary folder, builds the specified contrib plugin and updates the configuration to reference it in further CLI invocations.

The plugins can be referenced by their short name if sourced from the official Yarn repository.

examples:

```
[ 'Build and activate the "@yarnpkg/plugin-exec" plugin',
  '$0 plugin import from sources @yarnpkg/plugin-exec',
],

[ 'Build and activate the "@yarnpkg/plugin-exec" plugin (shorthand)',
  '$0 plugin import from sources exec',
],
```

(0, a.gn)([C.Command.String()], Le.prototype, 'name', void 0),
(0, a.gn)(
  [ C.Command.String('--path', {
      description: 'The path where the repository should be cloned to',
    }),
  ],
  Le.prototype, 'installPath', void 0,
),
(0, a.gn)(
  [ C.Command.String('--repository', {
      description: 'The repository that should be cloned',
    }),
  ],
  Le.prototype, 'repository', void 0,
),
(0, a.gn)(
  [ C.Command.String('--branch', {
      description: 'The branch of the repository that should be cloned',
    }),
  ],
  Le.prototype, 'branch',
)
class Pe extends c.BaseCommand {
  async execute() {
    const e = await s.VK.find(this.context.cwd, this.context.plugins),
    { project: t } = await h.I.find(e, this.context.cwd)
    return (await p.Pk.start(
      { configuration: e, stdout: this.context.stdout },
      async (r) => {
        const A = this.name,
        n = d.parseIdent(A)
        if (!e.plugins.has(A))
          throw new C.UsageError(
            d.prettyIdent(e, n) +
            " isn’t referenced by the current configuration",
          )
        const o = `.yarn/plugins/${A}.cjs`,
        i = m.y1.resolve(t.cwd, o)
        y.xfs.existsSync(i) &&
class Oe extends c.BaseCommand {
  constructor() {
    super(...arguments), (this.json = !1)
  }
  async execute() {
    (r.reportInfo(u.b.UNNAMED, 
      'Removing $(B.pretty(e, o, B.Type.PATH)}...`,
    ),
    await y.xfs.removePromise(i)),
    r.reportInfo(u.b.UNNAMED, 'Updating the configuration...'),
    await s.VK.updateConfiguration(t.cwd, (e) => {
      if (!Array.isArray(e.plugins)) return e
      const t = e.plugins.filter(e => e.path !== o)
      return e.plugins.length === t.length
      ? e
        : { ...e, plugins: t }
    })
    ).exitCode()
  }
};

(Pe.usage = C.Command.Usage({
  category: 'Plugin-related commands',
  description: 'remove a plugin',
  details: '
      This command deletes the specified plugin from the .yarn/plugins folder and removes it from the
configuration.**Note:** The plugins have to be referenced by their name property, which can be obtained
using the `yarn plugin runtime` command. Shorthands are not allowed.

  examples: [{
    'Remove a plugin imported from the Yarn repository',
    '$0 plugin remove @yarnpkg/plugin-typescript',
  },
  ],
  'Remove a plugin imported from a local file',
  '$0 plugin remove my-local-plugin',
  ]
}),
(0, a.gn)([C.Command.String()], Pe.prototype, 'name', void 0),
(0, a.gn)(
  [C.Command.Path('plugin', 'remove')], Pe.prototype, 'execute', null,
)
)
const e = await s.VK.find(this.context.cwd, this.context.plugins)
return (
    await p.Pk.start(
        {
            configuration: e,
            json: this.json,
            stdout: this.context.stdout,
        },
        async (t) => {
            for (const r of e.plugins.keys()) {
                const e = this.context.plugins.plugins.has(r)
                let A = r
                e && (A += ' [builtin]'),
                t.reportJson({ name: r, builtin: e }),
                t.reportInfo(null, " + A)
            }
        },
    ).exitCode()
)

; (Oe.usage = C.Command.Usage(
    {
        category: 'Plugin-related commands',
        description: 'list the active plugins',
        details: 
            "This command prints the currently active plugins. Will be displayed both builtin plugins and external
plugins."
        ,
        examples: [
            ['List the currently active plugins', '$0 plugin runtime'],
        ],
    )
),
(0, a.gn)(
    C.Command.Boolean('--json', {
        description: 'Format the output as an NDJSON stream',
    }),
    Oe.prototype,
    'json',
    void 0,
),
(0, a.gn)(
    [C.Command.Path('plugin', 'runtime')],
    Oe.prototype,
    'execute',
    null,
)
class Ue extends c.BaseCommand {
constructor() {
    super(...arguments), (this.idents = [])
}

async execute() {
    const e = await s.VK.find(this.context.cwd, this.context.plugins),
        { project: t, workspace: r } = await h.I.find(e, this.context.cwd),
        A = await g.C.find(e),
    if (!r) throw new c.WorkspaceRequiredError(t.cwd, this.context.cwd)
    const n = new Set()
    for (const e of this.idents) n.add(d.parseIdent(e).identHash)
    await t.resolveEverything({ cache: A, report: new I.$() })
    const o = e.get('bstatePath'),
        i = y.xfs.existsSync(o),
        a = new Map()
    for (const e of t.storedPackages.values()) {
        if (!Object.prototype.hasOwnProperty.call(i, e.locatorHash)) continue
        if (0 === n.size || n.has(e.identHash)) continue
        const t = i[e.locatorHash],
        a.set(e.locatorHash, t)
    }
    if (a.size > 0) {
        const r = e.get('bstatePath'),
        A = h.I.generateBuildStateFile(a, t.storedPackages),
        await y.xfs.mkdirPromise(m.y1.dirname(r), { recursive: !0 }),
        await y.xfs.changeFilePromise(r, A, { automaticNewlines: !0 })
    } else await y.xfs.removePromise(o)
    return (await p.Pk.start({
        configuration: e,
        stdout: this.context.stdout,
        includeLogs: !this.context.quiet,
    }),
        async (e) => {
        await t.install({ cache: A, report: e })
    },
    ).exitCode()
}

;(Ue.usage = C.Command.Usage({
    description: "rebuild the project's native packages",}
This command will automatically cause Yarn to forget about previous compilations of the given packages and to run them again.

Note that while Yarn forgets the compilation, the previous artifacts aren’t erased from the filesystem and may affect the next builds (in good or bad). To avoid this, you may remove the .yarn/unplugged folder, or any other relevant location where packages might have been stored (Yarn may offer a way to do that automatically in the future).

By default all packages will be rebuilt, but you can filter the list by specifying the names of the packages you want to clear from memory.

Examples:

- Rebuild all packages: `$0 rebuild`
- Rebuild fsevents only: `$0 rebuild fsevents`

```javascript
class Te extends c.BaseCommand {
  constructor() {
    super(...arguments), (this.all = !1), (this.patterns = [])
  }
  async execute() {
    const e = await s.VK.find(this.context.cwd, this.context.plugins),
      { project: t, workspace: r } = await h.I.find(e),
      A = await g.C.find(e)
    if (!r) throw new c.WorkspaceRequiredError(t.cwd, this.context.cwd)
    await t.restoreInstallState({ restoreResolutions: !1 })
    const o = this.all ? t.workspaces : [r],
      i = [n.REGULAR, n.DEVELOPMENT, n.PEER],
      a = []
    let l = !1
    const u = []
    for (const e of this.patterns) {
      let t = !1
      const r = d.parseIdent(e)
      for (const A of o) {
        const n = [...A.manifest.peerDependenciesMeta.keys()]
        for (const r of Z()(n, e))
          A.manifest.peerDependenciesMeta.delete(r), (l = !0), (t = !0)
        for (const e of i) {
          const n = A.manifest.getForScope(e),
            o = [...n.values()].map(e => d.stringifyIdent(e))
          for (const i of Z()(o, d.stringifyIdent(r))) {
            const { identHash: r } = d.parseIdent(i),
              o = n.get(r)
          if (void 0 === o)
            throw new Error('Assertion failed: Expected the descriptor to be registered',
```
A.manifest[e].delete(r),
u.push([A, e, o]),
(l = '0'),
(t = '0')
}
}
}
t || a.push(e)
}
const f = a.length > 1 ? 'Patterns' : 'Pattern',
1 = a.length > 1 ? "don't" : "doesn't",
E = this.all ? 'any' : 'this'
if (a.length > 0)
throw new C.UsageError(
  `{$1} match any packages referenced by ${E} workspace`,
)
if (l) {
await e.triggerMultipleHooks(
  (e) => e.afterWorkspaceDependencyRemoval,
u,
)
return (await p.Pk.start(
  { configuration: e, stdout: this.context.stdout },
  async (e) => {
    await t.install({ cache: A, report: e })
  },
)
).exitCode()
)
return 0
}

:Tt.usage = C.Command.Usage(
  description: 'remove dependencies from the project',
  details:
  "This command will remove the packages matching the specified patterns from the current workspace.
  This command accepts glob patterns as arguments (if valid Idents and supported by [micromatch](https://github.com/micromatch/micromatch)). Make sure to escape the patterns, to prevent your own shell from trying to expand them.

examples: [
  'Remove a dependency from the current project',
]
'$0 remove lodash',
]
[
  'Remove a dependency from all workspaces at once',
  '$0 remove lodash --all',
]
[
  'Remove all dependencies starting with `eslint-`',
  '$0 remove `eslint-*`',
]
[
  'Remove all dependencies with the `@babel` scope',
  '$0 remove `@babel/*`',
]
[
  'Remove all dependencies matching `react-dom` or `react-helmet`',
  '$0 remove `react-{dom,helmet}`',
].
],
]).
(C.Command.Boolean('-A,--all', {
  description:
    'Apply the operation to all workspaces from the current project',
}),
].
Te.prototype,
'all',
void 0,
).
(0, a.gn)([C.Command.Rest()], Te.prototype, 'patterns', void 0),
(0, a.gn)([C.Command.Path('remove')], Te.prototype, 'execute', null)
class je extends c.BaseCommand {
async execute() {
  const e = await s.VK.find(this.context.cwd, this.context.plugins),
    { project: t, workspace: r } = await h.I.find(e, this.context.cwd)
if (!r) throw new c.WorkspaceRequiredError(t.cwd, this.context.cwd)
return (await p.Pk.start(
  { configuration: e, stdout: this.context.stdout },
  async (t) => {
    const A = r.manifest.scripts,
    n = P.sortMap(A.keys(), (e) => e),
    o = {
      breakLength: 1 / 0,
      colors: e.get('enableColors'),
      maxArrayLength: 2,
i = n.reduce((e, t) => Math.max(e, t.length), 0)
for (const [e, r] of A.entries())
  t.reportInfo nihil
  `$(e.padEnd(i, ' ')) $((0, T.inspect)(r, o))`.
)
},
).exitCode()
}

;(0, a.gn)[]}C.Command.Path('run')], je.prototype, 'execute', null)
class Ye extends c.BaseCommand {
class constructor() {
  super(...arguments),
  (this.inspect = !1),
  (this.inspectBrk = !1),
  (this.topLevel = !1),
  (this.binariesOnly = !1),
  (this.args = [])
}
async execute() {
  const e = await s.VK.find(this.context.cwd, this.context.plugins),
  { project: t, workspace: r, locator: A } = await h.I.find(
    e,
    this.context.cwd,
  )
  await t.restoreInstallState()
  const n = this.topLevel ? t.topLevelWorkspace.anchoredLocator : A
  if (n)
    await R.hasPackageScript(n, this.scriptName, { project: t })
  return await R.executePackageScript(
    n,
    this.scriptName,
    this.args,
    { project: t,
      stdin: this.context.stdin,
      stdout: this.context.stdout,
      stderr: this.context.stderr,
    },
  )
  if (n)
    (await R.getPackageAccessibleBinaries(n, { project: t })).get(}
```javascript
const e = []
return (
    this.inspect &&
    ('string' == typeof this.inspect
     ? e.push('--inspect=' + this.inspect)
     : e.push('--inspect')),
    this.inspectBrk &&
    ('string' == typeof this.inspectBrk
     ? e.push('--inspect-brk=' + this.inspectBrk)
     : e.push('--inspect-brk'))).
await R.executePackageAccessibleBinary(n,
    this.scriptName,
    this.args,
    {
        cwd: this.context.cwd,
        project: t,
        stdin: this.context.stdin,
        stdout: this.context.stdout,
        stderr: this.context.stderr,
        nodeArgs: e,
    },
    )
)
if (!this.topLevel &&
    !this.binariesOnly &&
    r &&
    this.scriptName.includes(':')) {
    const e = (await Promise.all(t.workspaces.map(async (e) =>
        e.manifest.scripts.has(this.scriptName) ? e : null,
    ),
    )).filter((e) => null !== e)
if (1 === e.length)
return await R.executeWorkspaceScript(e[0],
    this.scriptName,
    this.args,
    {
        stdin: this.context.stdin,
        stdout: this.context.stdout,
    })
```
if (this.topLevel)
    throw 'node-gyp' === this.scriptName
        ? new C.UsageError(
            'Couldn’t find a script name "${
                this.scriptName
            }" in the top-level (used by ${d.prettyLocator(
                e,
                A,
            )}). This typically happens because some package depends on "node-gyp" to build itself, but didn’t list it in their dependencies. To fix that, please run "yarn add node-gyp" into your top-level workspace. You also can open an issue on the repository of the specified package to suggest them to use an optional peer dependency.
        )
        : new C.UsageError(
            'Couldn’t find a script name "${
                this.scriptName
            }" in the top-level (used by ${d.prettyLocator(e, A)}).',
        )

    if ('global' === this.scriptName)
        throw new C.UsageError(
            "The 'yarn global' commands have been removed in 2.x - consider using 'yarn dlx' or a third-party plugin instead",
        )
    const e = [this.scriptName].concat(this.args)
    for (const [t, r] of c.pluginCommands)
        for (const A of r)
            if (e.length >= A.length &&
                JSON.stringify(e.slice(0, A.length)) === JSON.stringify(A))
                throw new C.UsageError(
                    'Couldn’t find a script named "${this.scriptName}", but a matching command can be found in the ${t} plugin. You can install it with "yarn plugin import ${t}".',
                )
        throw new C.UsageError(
            'Couldn’t find a script named "${this.scriptName}".
        )
    throw new C.UsageError(
        'Couldn’t find a script named "${this.scriptName}".
    )

;$(Ye.usage = C.Command.Usage({
    description: 'run a script defined in the package.json',
    details:
    "\n    This command will run a tool. The exact tool that will be executed will depend on the current state of
your workspace:

- If the `scripts` field from your local package.json contains a matching script name, its definition will get executed.
- Otherwise, if one of the local workspace's dependencies exposes a binary with a matching name, this binary will get executed.
- Otherwise, if the specified name contains a colon character and if one of the workspaces in the project contains exactly one script with a matching name, then this script will get executed.

Whatever happens, the cwd of the spawned process will be the workspace that declares the script (which makes it possible to call commands cross-workspaces using the third syntax).

examples:

- ['Run the tests from the local workspace', '$0 run test'],
- ['Same thing, but without the "run" keyword', '$0 test'],
- ['Inspect Webpack while running', '$0 run --inspect-brk webpack'],
]

 Ye.prototype,
 'inspect',
 void 0,
),
(0, a.gn)(
 [ C.Command.String('--inspect', {
   tolerateBoolean: !0,
   description:
     'Forwarded to the underlying Node process when executing a binary',
   }),
 ],
 Ye.prototype,
 'inspectBrk',
 void 0,
),
(0, a.gn)(
 [ C.Command.Boolean('-T,--top-level', { hidden: !0 })],
 Ye.prototype,
 'topLevel',
 void 0,
),
(0, a.gn)(
 [C.Command.Boolean('-B,--binaries-only', { hidden: !0 })],
 Ye.prototype,
 'binariesOnly',
 void 0,
)
class Ge extends c.BaseCommand {
  constructor() {
    super(...arguments), (this.save = !1)
  }
  async execute() {
    const e = await s.VK.find(this.context.cwd, this.context.plugins),
      { project: t, workspace: r } = await h.I.find(e,
        this.context.cwd,
      ),
      A = await g.C.find(e)
    if (!r) throw new c.WorkspaceRequiredError(t.cwd, this.context.cwd)
    const n = d.parseDescriptor(this.descriptor, !0),
      o = d.makeDescriptor(n, this.resolution)
    t.storedDescriptors.set(n.descriptorHash, n),
    t.storedDescriptors.set(o.descriptorHash, o),
    t.resolutionAliases.set(n.descriptorHash, o.descriptorHash)
    return (await p.Pk.start({
      configuration: e, stdout: this.context.stdout },
    async (e) => {
      await t.install({ cache: A, report: e })
    }),
    ).exitCode()
  }
}

:(Ge.usage = C.Command.Usage({
  description: 'enforce a package resolution',
  details:
    '
    This command updates the resolution table so that `descriptor` is resolved by `resolution`. Note that by default this command only affect the current resolution table - meaning that this "manual override" will disappear if you remove the lockfile, or if the package disappear from the table. If you wish to make the enforced resolution persist whatever happens, add the `-s,--save` flag which will also edit the `resolutions` field from your top-level manifest.
    Note that no attempt is made at validating that `resolution` is a valid resolution entry for `descriptor`. 
    
    examples:
    [ 
      'Force all instances of lodash@npm:^1.2.3 to resolve to 1.5.0',
    ]
})}
```javascript
'0 set resolution lodash@npm:^1.2.3 1.5.0',
]
]
])
(0, a.gn)([C.Command.String()], Ge.prototype, 'descriptor', void 0),
(0, a.gn)([C.Command.String()], Ge.prototype, 'resolution', void 0),
(0, a.gn)(
    C.Command.Boolean('-s,--save', {
        description:
        'Persist the resolution inside the top-level manifest',
    }),
    Ge.prototype,
    'save',
    void 0,
),
(0, a.gn)(
    [C.Command.Path('set', 'resolution')],
    Ge.prototype,
    'execute',
    null,
)
}
class He extends c.BaseCommand {
    constructor() {
        super(...arguments),
        (this.patterns = []),
        (this.interactive = null),
        (this.exact = !1),
        (this.tilde = !1),
        (this.caret = !1)
    }
    async execute() {
        var e,
            t = await s.VK.find(this.context.cwd, this.context.plugins),
            { project: r, workspace: A } = await h.I.find(t, this.context.cwd),
            o = await g.C.find(t)
        if (!A) throw new c.WorkspaceRequiredError(r.cwd, this.context.cwd)
        const a =
            null !== (e = this.interactive) && void 0 !== e ? e : t.get('preferInteractive'),
            I = D(this, r),
            E = a
            ? [i.KEEP, i.REUSE, i.PROJECT, i.LATEST]
```
: [i.PROJECT, i.LATEST],
y = [],
m = []
for (const e of this.patterns) {
    let t = !1
    const A = d.parseDescriptor(e)
    for (const e of r.workspaces)
        for (const i of [n.REGULAR, n.DEVELOPMENT]) {
            const n = [...e.manifest.getForScope(i).values()].map((e) =>
                d.stringifyIdent(e),
            )
            for (const s of Z()(n, d.stringifyIdent(A))) {
                const n = d.parseIdent(s),
                a = e.manifest[i].get(n.identHash)
                if (void 0 === a)
                    throw new Error(
                        'Assertion failed: Expected the descriptor to be registered',
                    )
                const c = d.makeDescriptor(n, A.range)
y.push(
                    Promise.resolve().then(async () => [ e, i, a, await F(c, { project: r, workspace: e, cache: o, target: i, modifier: I, strategies: E, })],
                ),
            ),
        } t || m.push(e)
} if (m.length > 1)
    throw new C.UsageError(
        'Patterns ' + B.prettyList( t, m, s.a5.CODE, ) + ' don’t match any packages referenced by any workspace',
    ) if (m.length > 0)
throw new C.UsageError(
`Pattern ${B.prettyList(t, m, s.a5.CODE, )} doesn't match any packages referenced by any workspace`,
)
const w = await Promise.all(y),
Q = await l.h.start(
{
  configuration: t,
  stdout: this.context.stdout,
  suggestInstall: !1,
},
async (e) => {
  for (const [, , A, { suggestions: n, rejections: o }] of w) {
    const i = n.filter((e) => null !== e.descriptor)
    if (0 === i.length) {
      const [n] = o
      if (void 0 === n)
        throw new Error(
          'Assertion failed: Expected an error to have been set',
        )
      const i = this.cli.error(n)
      r.configuration.get('enableNetwork')
        ? e.reportError(
            u.b.CANT_SUGGEST_RESOLUTIONS,
            `${d.prettyDescriptor(t, A, )} can't be resolved to a satisfying range

${i}`,
          )
        : e.reportError(
            u.b.CANT_SUGGEST_RESOLUTIONS,
            `${d.prettyDescriptor(t, A, )} can't be resolved to a satisfying range (note: network resolution has been disabled)

${i}`,
          )
    } else
      i.length > 1 &&
    !a &&
    e.reportError(
      u.b.CANT_SUGGEST_RESOLUTIONS,
      d.prettyDescriptor(t, A) +
      ' has multiple possible upgrade strategies; use -i to disambiguate manually',
    )
  }
})
if (Q.hasErrors()) return Q.exitCode()
let b = !1
const v = []
for (const [e, A, , { suggestions: n }] of w) {
  let o
  const i = n.filter((e) => null !== e.descriptor),
  s = i[0].descriptor,
  a = i.every((e) => d.areDescriptorsEqual(e.descriptor, s))
  l === i.length || a
  ? (o = s)
  : ((b = !0),
  ( { answer: o } = await (0, f.prompt)(
    { type: 'select',
      name: 'answer',
      message: `Which range to you want to use in ${d.prettyWorkspace(
        t,
        e,
      )}?`,
      choices: n.map((e, name: t, reason: r) => e
        ? { name: t, hint: r, descriptor: e }
        : { name: t, hint: r, disabled: !0 },
    ),
    onCancel: () => process.exit(130),
    result(e) {
      return this.find(e, 'descriptor')
    },
    stdin: this.context.stdin,
    stdout: this.context.stdout,
  )))
  const c = e.manifest[A].get(o.identHash)
  if (void 0 === c)
    throw new Error('Assertion failed: This descriptor should have a matching entry'.
  )
  if (c.descriptorHash !== o.descriptorHash)
    e.manifest[A].set(o.identHash, o), v.push([e, A, c, o])
  else {
    const A = t.makeResolver(),
    n = { project: r, resolver: A },
    o = A.bindDescriptor(c, e.anchoredLocator, n)
    r.forgetResolution(o)
  }
}
await t.triggerMultipleHooks(
  (e) => e.afterWorkspaceDependencyReplacement,
v,

),
b && this.context.stdout.write('n')
return (
    await p.Pk.start(
        { configuration: t, stdout: this.context.stdout },
        async (e) => {
            await r.install({ cache: o, report: e })
        }
    ).exitCode()
);(He.usage = C.Command.Usage(
    description: 'upgrade dependencies across the project',
details:
    "in This command upgrades the packages matching the list of specified patterns to their latest available version across the whole project (regardless of whether they're part of `dependencies` or `devDependencies` - `peerDependencies` won't be affected). This is a project-wide command: all workspaces will be upgraded in the process.

If `-i,--interactive` is set (or if the `preferInteractive` settings is toggled on) the command will offer various choices, depending on the detected upgrade paths. Some upgrades require this flag in order to resolve ambiguities. The, `-C,--caret`, `-E,--exact` and `-T,--tilde` options have the same meaning as in the `add` command (they change the modifier used when the range is missing or a tag, and are ignored when the range is explicitly set).

Generally you can see `yarn up` as a counterpart to what was `yarn upgrade --latest` in Yarn 1 (ie it ignores the ranges previously listed in your manifests), but unlike `yarn upgrade` which only upgraded dependencies in the current workspace, `yarn up` will upgrade all workspaces at the same time.

This command accepts glob patterns as arguments (if valid Descriptors and supported by [micromatch](https://github.com/micromatch/micromatch)). Make sure to escape the patterns, to prevent your own shell from trying to expand them.

**Note:** The ranges have to be static, only the package scopes and names can contain glob patterns.

    examples: [
        [    'Upgrade all instances of lodash to the latest release',
            '0 up lodash',
        ],
        [    'Upgrade all instances of lodash to the latest release, but ask confirmation for each',
            '0 up lodash -i',
        ],
        [    'Upgrade all instances of lodash to 1.2.3', '0 up lodash@1.2.3'],
        [    'Upgrade all instances of packages with the `@babel` scope to the latest release',
            '0 up @babel/*',
        ],
        [    'Upgrade all instances of packages containing the word `jest` to the latest release',
            '0 up *jest*',
        ],
    ]
)
Upgrade all instances of packages with the `@babel` scope to 7.0.0',
"$0 up '@babel/*@7.0.0'",
].
],
})

(0, a.gn)([C.Command.Rest()], He.prototype, 'patterns', void 0),
(0, a.gn)(
[
  C.Command.Boolean('-i,--interactive', {
    description:
      'Offer various choices, depending on the detected upgrade paths',
  }),
].
He.prototype,
'interactive',
void 0,
),
(0, a.gn)(
[
  C.Command.Boolean('-E,--exact', {
    description:
      "Don't use any semver modifier on the resolved range",
  }),
].
He.prototype,
'exact',
void 0,
),
(0, a.gn)(
[
  C.Command.Boolean('-T,--tilde', {
    description:
      'Use the `~` semver modifier on the resolved range',
  }),
].
He.prototype,
'tilde',
void 0,
),
(0, a.gn)(
[
  C.Command.Boolean('-C,--caret', {
    description:
      'Use the `^` semver modifier on the resolved range',
  }),
].
He.prototype,
class Je extends c.BaseCommand {
    constructor() {
        super(...arguments),
        (this.recursive = !1),
        (this.json = !1),
        (this.peers = !1)
    }
    async execute() {
        const e = await s.VK.find(this.context.cwd, this.context.plugins),
            { project: t, workspace: r } = await h.I.find(e, this.context.cwd)
        if (!r) throw new c.WorkspaceRequiredError(t.cwd, this.context.cwd)
        await t.restoreInstallState()
        const A = d.parseIdent(this.package).identHash,
        n = this.recursive
            ? (function (e, t, { configuration: r, peers: A }) {
                const n = P.sortMap(e.workspaces, (e) =>
                    d.stringifyLocator(e.anchoredLocator),
                ),
                o = new Set(),
                i = new Set(),
                s = (r) => {
                    if (o.has(r.locatorHash)) return i.has(r.locatorHash)
                    if ((o.add(r.locatorHash), r.identHash === t))
                        return i.add(r.locatorHash), !0
                    let n = !1
                    r.identHash === t && (n = !0)
                    for (const t of r.dependencies.values()) {
                        if (!A && r.peerDependencies.has(t.identHash))
                            continue
                        const o = e.storedResolutions.get(t.descriptorHash)
                        if (!o)
                            throw new Error(
                                'Assertion failed: The resolution should have been registered',
                            )
                        const i = e.storedPackages.get(o)
                        if (!i)
                            throw new Error(
                                'Assertion failed: The package should have been registered',
                            )
                        s(i) && (n = !0)
                    }
                    return n && i.add(r.locatorHash), n
                }
                for (const t of n) {
                    s(t) && (n = !0)
                    s(t) && (n = !0)
                }
            })(e, t, { configuration: r, peers: A })
    }
}
const r = e.storedPackages.get(t.anchoredLocator.locatorHash,)
if (!r)
    throw new Error('Assertion failed: The package should have been registered',)
s(r)
const a = new Set(),
c = { },
g = { children: c },
l = (t, r, n) => {
    if (!i.has(t.locatorHash)) return
    const o = { },
s = {
        value:
            null !== n
                ? B.tuple(B.Type.DEPENDENT, {
                        locator: t,
                        descriptor: n,
                    } )
                : B.tuple(B.Type.LOCATOR, t),
        children: o,
    }
    if (
        ((r[d.stringifyLocator(t)] = s),
        !a.has(t.locatorHash) &&
        (a.add(t.locatorHash),
            null === n || !e.tryWorkspaceByLocator(t)))
    )
    for (const r of t.dependencies.values()) {
        if (!A && t.peerDependencies.has(r.identHash))
            continue
        const n = e.storedResolutions.get(r.descriptorHash)
        if (n)
            throw new Error('Assertion failed: The resolution should have been registered',)
        const i = e.storedPackages.get(n)
        if (!i)
            throw new Error('Assertion failed: The package should have been registered',)
        l(i, o, r)
    }
    for (const t of n) {
const r = e.storedPackages.get(t.anchoredLocator.locatorHash,)
if (!r)
  throw new Error('Assertion failed: The package should have been registered',)
l(r, c, null)
}
return g
})(t, A, { configuration: e, peers: this.peers })

: (function (e, t, { configuration: r, peers: A }) {
  const n = P.sortMap(e.storedPackages.values(), (e) =>
    d.stringifyLocator(e),
  ),
  o = {},
  i = { children: o }
  for (const r of n) {
    const n = {},
    i = null
    for (const s of r.dependencies.values()) {
      if (!A && r.peerDependencies.has(s.identHash)) continue
      const a = e.storedResolutions.get(s.descriptorHash)
      if (!a)
        throw new Error('Assertion failed: The resolution should have been registered',)
      const c = e.storedPackages.get(a)
      if (!c)
        throw new Error('Assertion failed: The package should have been registered',)
      if (c.identHash !== t) continue
      if (null === i) {
        const e = d.stringifyLocator(r)
        o[e] = { value: [r, B.Type.LOCATOR], children: n }
      }
      const g = d.stringifyLocator(c)
      n[g] = {
        value: [
          { descriptor: s, locator: c },
          B.Type.DEPENDENT,
        ],
      }
    }
  }
  return i
})(t, A, { configuration: e, peers: this.peers })
le.emitTree(n, {
    configuration: e,
    stdout: this.context.stdout,
    json: this.json,
    separators: 1,
})
}

;Je.usage = C.Command.Usage(
    description: 'display the reason why a package is needed',
    details:
    'This command prints the exact reasons why a package appears in the dependency tree. If `-R,--recursive` is set, the listing will go in depth and will list, for each workspaces, what are all the paths that lead to the dependency. Note that the display is somewhat optimized in that it will not print the package listing twice for a single package, so if you see a leaf named "Foo" when looking for "Bar", it means that "Foo" already got printed higher in the tree.
    ',
    examples: [
        ['Explain why lodash is used in your project', '$0 why lodash'],
    ]
),
(0, a.gn)([C.Command.String()], Je.prototype, 'package', void 0),
(0, a.gn)(
    C.Command.Boolean('-R,--recursive', {
        description: 'List, for each workspace, what are all the paths that lead to the dependency',
    }),
),
Je.prototype,
'recursive',
void 0,
),
(0, a.gn)(
    C.Command.Boolean('--json', {
        description: 'Format the output as an NDJSON stream',
    }),
),
Je.prototype,
'json',
void 0,
),
(0, a.gn)(
    C.Command.Boolean('--peers', {
        description: 'Also print the peer dependencies that match the specified name',
    }),
)
class qe extends c.BaseCommand {
    constructor() {
        super(...arguments), (this.verbose = !1), (this.json = !1)
    }
    async execute() {
        const e = await s.VK.find(this.context.cwd, this.context.plugins),
            { project: t } = await h.I.find(e, this.context.cwd)
        return (await p.Pk.start(
            {
                configuration: e,
                json: this.json,
                stdout: this.context.stdout,
            },
            async (e) => {
                for (const r of t.workspaces) {
                    const { manifest: A } = r
                    let n
                    if (this.verbose) {
                        const e = new Set(),
                            r = new Set()
                        for (const n of E.G.hardDependencies) {
                            for (const [o, i] of A.getForScope(n)) {
                                const A = t.tryWorkspaceByDescriptor(i)
                                null === A
                                ? t.workspacesByIdent.has(o) && r.add(i)
                                : e.add(A)
                            }
                        }
                        n = {
                            workspaceDependencies: Array.from(e).map( (e) => e.relativeCwd, ),
                            mismatchedWorkspaceDependencies: Array.from( r, ).map((e) => d.stringifyDescriptor(e)),
                        }
                    }
                }
                e.reportInfo(null, " + r.relativeCwd),
                e.reportJson({
                    location: r.relativeCwd,
                    name: A.name ? d.stringifyIdent(A.name) : null,
                    ...n,
                })
            })
        )
    }
}
This command will print the list of all workspaces in the project. If both the `-v,--verbose` and `--json` options are set, Yarn will also return the cross-dependencies between each workspaces (useful when you wish to automatically generate Buck / Bazel rules).

```javascript
class ze extends C.Command {
  constructor() {
    super(...arguments), (this.args = [])
  }
  async execute() {
    const e = await s.VK.find(this.context.cwd, this.context.plugins),
```
const A = t.workspaces,
    n = new Map(
        A.map((e) => {
            const t = d.convertToIdent(e.locator)
            return [d.stringifyIdent(t), e]
        })
    ),
    o = n.get(this.workspaceName)
if (void 0 === o) {
    const e = Array.from(n.keys()).sort()
    throw new C.UsageError(
        `Workspace '${this.workspaceName}' not found. Did you mean any of the following:
          - ${e.join(
                '
          - ',
        )}?`,
    )
}
return this.cli.run([this.commandName, ...this.args], {
    cwd: o.cwd,
})
);
(ze.usage = C.Command.Usage({
    category: 'Workspace-related commands',
    description: 'run a command within the specified workspace',
    details:
        '
        This command will run a given sub-command on a single workspace.
    ',
    examples: [
        [
            'Add a package to a single workspace',
            'yarn workspace components add -D react',
        ],
        [
            'Run build script on a single workspace',
            'yarn workspace components run build',
        ],
    ],
})));
(0, a.gn)(
    [C.Command.String()],
    ze.prototype,
    'workspaceName',
    void 0,
),
(0, a.gn)([C.Command.String()], ze.prototype, 'commandName', void 0),
const We = {
  configuration: {
    enableImmutableInstalls: {
      description: 'If true, prevents the install command from modifying the lockfile',
      type: s.a2.BOOLEAN,
      default: !1,
    },
    defaultSemverRangePrefix: {
      description: 'The default save prefix: '^', '~' or ''
      type: s.a2.STRING,
      values: ['^', '~', ''],
      default: o.CARET,
    },
  },
  commands: ['L', 'j', 'q', 'Ge', 've', 'we', 'qe', 're', 'Ae', 'ne', 'ie', 'M', 'x', 'z', 'te', 'ae', 'ge', 'ue', 'de', 'Ce', 'fe', 'Le', 'Re', 'Pe', 'Me'],
}
'use strict'
function u({ parentLocator: e, path: t, folderHash: r, protocol: A }) {
  const o = null !== e ? { locator: n.stringifyLocator(e) } : {},
  i = void 0 !== r ? { hash: r } : {};
  return n.makeRange({
    protocol: A,
    source: t,
    selector: t,
params: { ...i, ...o },
})
}
function h(e, {
parentLocator: t, path: r, folderHash: A, protocol: o },
) {
return n.makeLocator(e,
{
parentLocator: t, path: r, folderHash: A, protocol: o },
})
async function p(e, {
protocol: t, fetchOptions: r, inMemory: A = !1 },
) {
const {
parentLocator: i,
path: s,
} = n.parseFileStyleRange(e.reference, { protocol: t } ),
il = o.y1.isAbsolute(s) ? {
packageFs: new g.M(o.LZ.root),
prefixPath: o.LZ.dot,
localPath: o.LZ.root,
}
: await r.fetcher.fetch(i, r),
u = l.localPath
? {
packageFs: new g.M(o.LZ.root),
prefixPath: o.y1.relative(o.LZ.root, l.localPath),
}
: l
l !== u && l.releaseFs && l.releaseFs()
const h = u.packageFs,
p = o.y1.join(u.prefixPath, s)
return await a.releaseAfterUseAsync(
async () =>
await c.makeArchiveFromDirectory(p, {
baseFs: h,
prefixPath: n.getIdentVendorPath(e),
compressionLevel: r.project.configuration.get('compressionLevel',
),
inMemory: A,
}),
u.releaseFs,
async function d(e, { protocol: t, fetchOptions: r }) {
  return (
    await p(e, { protocol: t, fetchOptions: r, inMemory: !0 })
  ).getBufferAndClose()
}

var C = r(20624),
  f = r(32485),
  I = r(46611)

const E = {
  fetchers: [
    class {
      supports(e, t) {
        return (!is.test(e.reference) & & !e.reference.startsWith('file:'))
      }
      getLocalPath(e, t) {
        return null
      }
      async fetch(e, t) {
        const r = t.checksums.get(e.locatorHash) || null,
          [A, o, i] = await t.cache.fetchPackageFromCache(e, r, {
            onHit: () => t.report.reportCacheHit(e),
            onMiss: () =>
              t.report.reportCacheMiss(e,
                n.prettyLocator(t.project.configuration, e) +
                " can't be found in the cache and will be fetched from the disk",
              ),
            loader: () => this.fetchFromDisk(e, t),
            skipIntegrityCheck: t.skipIntegrityCheck,
          })
        return {
          packageFs: A,
          releaseFs: o,
          prefixPath: n.getIdentVendorPath(e),
          checksum: i,
        }
      }
      async fetchFromDisk(e, t) {
        const {
          parentLocator: r,
          path: A,
        } = n.parseFileStyleRange(e.reference, { protocol: 'file:' }),
        i = o.y1.isAbsolute(A)
        ? {
          packageFs: new g.M(o.LZ.root),
        }
      }
    }
  ]
}

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prefixPath: o.LZ.dot,
localPath: o.LZ.root,

: await t-fetcher-fetch(r, t),
s = i.localPath
?

packageFs: new g.M(o.LZ.root),
prefixPath: o.y1.relative(o.LZ.root, i.localPath),

i !== s && i.releaseFs && i.releaseFs()
const l = s.packageFs,
u = o.y1.join(s.prefixPath, A),
h = await l.readFilePromise(u)
return await a.releaseAfterUseAsync(
  async () =>
    await c.convertToZip(h, {
      compressionLevel: t.project.configuration.get('compressionLevel'),
      prefixPath: n.getIdentVendorPath(e),
      stripComponents: 1,
    }),
    s.releaseFs,
  })
},

class {
  supports(e, t) {
    return !!e.reference.startsWith('file:')
  }

getLocalPath(e, t) {
  const {
    parentLocator: r,
    path: A,
  } = n.parseFileStyleRange(e.reference, { protocol: 'file:' })
  if (o.y1.isAbsolute(A)) return A
  const i = t-fetcher-getLocalPath(r, t)
  return null === i ? null : o.y1.resolve(i, A)
}
async fetch(e, t) {
  const r = t-checksums.get(e.locatorHash) || null,
[A, o, i] = await t-cache-fetchPackageFromCache(e, r, {
onHit: () => t-report.reportCacheHit(e),
onMiss: () =>
t-report.reportCacheMiss(e,
  n.prettyLocator(t-project.configuration, e) +
}
"can't be found in the cache and will be fetched from the disk",
},
loader: () => this.fetchFromDisk(e, t),
skipIntegrityCheck: t.skipIntegrityCheck,
})
return {
  packageFs: A,
  releaseFs: o,
  prefixPath: n.getIdentVendorPath(e),
  localPath: this.getLocalPath(e, t),
  checksum: i,
}
}
async fetchFromDisk(e, t) {
  return p(e, { protocol: 'file:', fetchOptions: t })
}.
].
].
resolvers: [
class {
supportsDescriptor(e, t) {
  return (  
  !!s.test(e.range) &&
  (!!e.range.startsWith('file:') || !!i.test(e.range))
  )
}
supportsLocator(e, t) {
  return (  
  !!s.test(e.reference) && !!e.reference.startsWith('file:')
  )
}
shouldPersistResolution(e, t) {
  return !0
}
}bindDescriptor(e, t, r) {
  return (  
  i.test(e.range) &&
  (e = n.makeDescriptor(e, 'file:' + e.range)),
  n.bindDescriptor(e, { locator: n.stringifyLocator(t) })
  )
}
getResolutionDependencies(e, t) {
  return []
}
async getCandidates(e, t, r) {
  let A = e.range
  return (  
  A.startsWith('file:') && (A = A.slice('file:'.length)),
  )
}
async getSatisfying(e, t, r) {
  return null
}

async resolve(e, t) {
  if (!t.fetchOptions)
    throw new Error(
      'Assertion failed: This resolver cannot be used unless a fetcher is configured',
    )
  const r = await t.fetchOptions.fetcher.fetch(e, t.fetchOptions),
  A = await a.releaseAfterUseAsync(
    async () =>
      await I.G.find(r.prefixPath, { baseFs: r.packageFs }),
      r.releaseFs,
  )
  return {
    ...e,
    version: A.version || '0.0.0',
    languageName: t.project.configuration.get('defaultLanguageName'),
    linkType: f.Un.HARD,
    dependencies: A.dependencies,
    peerDependencies: A.peerDependencies,
    dependenciesMeta: A.dependenciesMeta,
    peerDependenciesMeta: A.peerDependenciesMeta,
    bin: A.bin,
  }
}

class {
  supportsDescriptor(e, t) {
    return !!e.range.match(i) || !!e.range.startsWith('file:')
  }

  supportsLocator(e, t) {
    return !!e.reference.startsWith('file:')
  }

  shouldPersistResolution(e, t) {
    return !1
  }

  bindDescriptor(e, t, r) {
    return (i.test(e.range) &&
      (e = n.makeDescriptor(e, 'file:' + e.range)),
      n.bindDescriptor(e, { locator: n.stringifyLocator(t) })))
  }
}
getResolutionDependencies(e, t) {
  return []
}

async getCandidates(e, t, r) {
  if (!r.fetchOptions)
    throw new Error('Assertion failed: This resolver cannot be used unless a fetcher is configured',
    )
  const { path: A, parentLocator: o } = l(e.range)
  if (null === o)
    throw new Error('Assertion failed: The descriptor should have been bound',
    )
  const i = await d(
    n.makeLocator(
      e,
      n.makeRange({
        protocol: 'file:',
        source: A,
        selector: A,
        params: { locator: n.stringifyLocator(o) },
      }),
    ),
    { protocol: 'file:', fetchOptions: r.fetchOptions },
  )
  return [
    h(e, {
      parentLocator: o,
      path: A,
      folderHash: C.makeHash('1', i).slice(0, 6),
      protocol: 'file:',
    }),
  ]
}

async getSatisfying(e, t, r) {
  return null
}

async resolve(e, t) {
  if (!t.fetchOptions)
    throw new Error('Assertion failed: This resolver cannot be used unless a fetcher is configured',
    )
  const r = await t.fetchOptions.fetcher.fetch(e, t.fetchOptions),
  A = await a.releaseAfterUseAsync(
    async () =>
      await I.G.find(r.prefixPath, { baseFs: r.packageFs }),
    r.releaseFs,
return { 
...e,
  version: A.version || '0.0.0',
  languageName: t.project.configuration.get(
    'defaultLanguageName',
  ),
  linkType: f.Un.HARD,
  dependencies: A.dependencies,
  peerDependencies: A.peerDependencies,
  dependenciesMeta: A.dependenciesMeta,
  peerDependenciesMeta: A.peerDependenciesMeta,
  bin: A.bin,
  
}
]
],
[
],
[
],
}]
75641: (e, t, r) => {
  'use strict'
  r.r(t), r.d(t, { default: () => F, gitUtils: () => A })
  var A = [
  ]
  r.r(A),
  r.d(A, {
    TreeishProtocols: () => y,
    clone: () => S,
    isGitUrl: () => m,
    lsRemote: () => b,
    normalizeLocator: () => D,
    normalizeRepoUrl: () => Q,
    resolveUrl: () => v,
    splitRepoUrl: () => w,
  })
  var n = r(39922),
  o = r(54143),
  i = r(63088),
  s = r(73632),
  a = r(72785),
  c = r(43896),
  g = r(46009),
  l = r(79669),
  u = r(6220),
  h = r(71191),
  p = r.n(h),
  d = r(53887),
  C = r.n(d),
  f = r(78835),
I = r.n(f)
function E() {
return { ...process.env, GIT_SSH_COMMAND: 'ssh -o BatchMode=yes' }
}
const B = [
/^ssh:/,
/^git(?:\+[^:]+)?:/,
/^(?:git\+)?https?:[^#]+\/[^#]+(?:\.git)(?:#.*)?$/,
/^git@[^#]+\/[^#]+\.git(?:#.*)?$/,
/^(?:github:|https:\/\/github\.com\/)?(?!\.{1,2}\/)([a-zA-Z._0-9-]+)\/(?!\.{1,2}(?:#|$))([a-zA-Z._0-9]+?)(?:\.git)?(?:#.*)?$/,
/^https:\/\/github\.com\/(?!\.{1,2}\/)([a-zA-Z0-9._-]+)\/(?!\.{1,2}(?:#|$))([a-zA-Z0-9._-]+?)\/tarball\/(.+)?$/,
]
var y
function m(e) {
return !!e && B.some((t) => !!e.match(t))
}
function w(e) {
const t = (e = Q(e)).indexOf('#')
if (-1 === t)
return {
repo: e,
treeish: { protocol: y.Head, request: 'master' },
extra: {},
}
const r = e.slice(0, t),
A = e.slice(t + 1)
if (A.match(/^[a-z]+=/)) {
const e = p().parse(A)
for (const [t, r] of Object.entries(e))
if ('string' != typeof r)
throw new Error(
`Assertion failed: The ${t} parameter must be a literal string`,
)
const t = Object.values(y).find((t) =>
Object.prototype.hasOwnProperty.call(e, t),
)
let n, o
void 0 !== t
? ((n = t), (o = e[t]))
: ((n = y.Head), (o = 'master'))
for (const t of Object.values(y)) delete e[t]
return { repo: r, treeish: { protocol: n, request: o }, extra: e }
}
{
const e = A.indexOf(':')
let t, n
return (

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-1 === e
? ((t = null), (n = A))
: ((t = A.slice(0, e)), (n = A.slice(e + 1))),
{ repo: r, treeish: { protocol: t, request: n }, extra: {} }
)
}
}
function Q(e, { git: t = !1 } = {}) {
var r
if (
((e = (e = (e = e.replace(/^git\+https:/, 'https:')).replace(
/^(?:github:|https:\/\/github\.com\/)?(?!\.{1,2}\/)([a-zA-Z0-9._-]+)\/(?!\.{1,2}(?:#|$))([a-zA-Z0-9._]+?)(?:\.git)?(#.*)?$/,
'https://github.com/$1/$2.git$3',
)).replace(
/^https:\/\/github\.com\/(?!\.{1,2}\/)([a-zA-Z0-9._-]+)\/(?!\.{1,2}(?:#|$))([a-zA-Z0-9._-]+?)\/tarball\/(.+)?$/,
'https://github.com/$1/$2.git#$3',
)),
t)
){
let t
e = e.replace(/^git\+([^:]+):/, '$1:')
try {
t = I().parse(e)
} catch (e) {
t = null
}
t &&
'ssh:' === t.protocol &&
(null === (r = t.path) || void 0 === r
? void 0
: r.startsWith('/:')) &&
(e = e.replace(/^ssh:\/\//, ''))
}
return e
}
function D(e) {
return o.makeLocator(e, Q(e.reference))
}
async function b(e, t) {
const r = Q(e, { git: !0 })
if (!l.getNetworkSettings(r, { configuration: t }).enableNetwork)
throw new Error(
`Request to '${r}' has been blocked because of your configuration settings`,
)
let A
try {
A = await u.execvp('git', ['ls-remote', '--refs', r], {

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cwd: t.startingCwd,
env: E(),
strict: !0,
})
} catch (t) {
throw ((t.message = `Listing the refs for ${e} failed`), t)
}
const n = new Map(),
o = /^([a-f0-9]{40})\t(refs\/[^\n]+)/gm
let i
for (; null !== (i = o.exec(A.stdout)); ) n.set(i[2], i[1])
return n
}
async function v(e, t) {
const {
repo: r,
treeish: { protocol: A, request: n },
extra: o,
} = w(e),
i = await b(r, t),
s = (e, t) => {
switch (e) {
case y.Commit:
if (!t.match(/^[a-f0-9]{40}$/))
throw new Error('Invalid commit hash')
return p().stringify({ ...o, commit: t })
case y.Head: {
const e = i.get('refs/heads/' + t)
if (void 0 === e) throw new Error(`Unknown head ("${t}")`)
return p().stringify({ ...o, commit: e })
}
case y.Tag: {
const e = i.get('refs/tags/' + t)
if (void 0 === e) throw new Error(`Unknown tag ("${t}")`)
return p().stringify({ ...o, commit: e })
}
case y.Semver: {
if (!C().validRange(t))
throw new Error(`Invalid range ("${t}")`)
const e = new Map(
[...i.entries()]
.filter(([e]) => e.startsWith('refs/tags/'))
.map(([e, t]) => [C().parse(e.slice(10)), t])
.filter((e) => null !== e[0]),
),
r = C().maxSatisfying([...e.keys()], t)
if (null === r) throw new Error(`No matching range ("${t}")`)
return p().stringify({ ...o, commit: e.get(r) })

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case null: {
  let e
  if (null !== (e = a(y.Commit, t))) return e
  if (null !== (e = a(y.Tag, t))) return e
  if (null !== (e = a(y.Head, t))) return e
  throw t.match(/^[a-f0-9]+$/)
    ? new Error(
        'Couldn’t resolve "$t" as either a commit, a tag, or a head - if a commit, use the 40-characters commit hash',
    )
    : new Error(
        'Couldn’t resolve "$t" as either a commit, a tag, or a head',
    )
} default:
  throw new Error(`Invalid Git resolution protocol ("${e}")`)
}
}
a = (e, t) => {
  try {
    return s(e, t)
  } catch (e) {
    return null
  }
}
return `${r}#${s(A, n)}`
}
async function S(e, t) {
  return await t.getLimit('cloneConcurrency')(async () => {
    const {
      repo: r,
      treeish: { protocol: A, request: n },
    } = w(e)
    if ('commit' !== A)
      throw new Error('Invalid treeish protocol when cloning')
    const o = Q(r, { git: !0 })
    if (!1 === l.getNetworkSettings(o, { configuration: t }).enableNetwork)
      throw new Error(
        `Request to '${o}' has been blocked because of your configuration settings`,
      )
    const i = await c.xfs.mktempPromise(),
    s = { cwd: i, env: E(), strict: !0 }
    try {
      await u.execvp(
        'git',
```javascript
]'clone',
'-c core.autocrlf=false',
o,
g.cS.fromPortablePath(i),
],
s,
),
await u.execvp('git', ['checkout', " + n], s)
} catch (e) {
  throw ((e.message = 'Repository clone failed: ' + e.message), e)
} return i
})

!(function (e) {
  (e.Commit = 'commit'),
  (e.Head = 'head'),
  (e.Tag = 'tag'),
  (e.Semver = 'semver')
})(y || (y = {}))
var k = r(32485),
N = r(46611)
const F = {
  configuration: {
    cloneConcurrency: {
      description: 'Maximal number of concurrent clones',
      type: n.a2.NUMBER,
      default: 2,
    },
  },
  fetchers: {
    class {
      supports(e, t) {
        return m(e.reference)
      }
      getLocalPath(e, t) {
        return null
      }
      async fetch(e, t) {
        const r = t.checksums.get(e.locatorHash) || null,
          A = D(e),
          n = new Map(t.checksums)
        n.set(A.locatorHash, r)
        const i = { ...t, checksums: n },
        s = await this.downloadHosted(A, i)
        if (null !== s) return s
        const [a, c, g] = await t.cache.fetchPackageFromCache(e, r, {
```
onHit: () => t.report.reportCacheHit(e),
onMiss: () =>
  t.report.reportCacheMiss(
    e,
    o.prettyLocator(t.project.configuration, e) +
    " can't be found in the cache and will be fetched from the remote repository",
  ),
loader: () => this.cloneFromRemote(A, i),
skipIntegrityCheck: t.skipIntegrityCheck,
})
return {
  packageFs: a,
  releaseFs: c,
  prefixPath: o.getIdentVendorPath(e),
  checksum: g,
}
}
async downloadHosted(e, t) {
  return t.project.configuration.reduceHook(
    (e) => e.fetchHostedRepository,
    null,
    e,
    t,
  )
}
async cloneFromRemote(e, t) {
  const r = await S(e.reference, t.project.configuration),
    A = w(e.reference),
    n = g.y1.join(r, 'package.tgz')
  await i.prepareExternalProject(r, n, {
    configuration: t.project.configuration,
    report: t.report,
    workspace: A.extra.workspace,
  })
  const l = await c.xfs.readFilePromise(n)
  return await s.releaseAfterUseAsync(
    async () =>
      await a.convertToZip(l, {
        compressionLevel: t.project.configuration.get('compressionLevel'),
        prefixPath: o.getIdentVendorPath(e),
        stripComponents: 1,
      }),
    )
  ,
}
resolvers: [
    class {
        supportsDescriptor(e, t) {
            return m(e.range)
        }
        supportsLocator(e, t) {
            return m(e.reference)
        }
        shouldPersistResolution(e, t) {
            return !0
        }
        bindDescriptor(e, t, r) {
            return e
        }
        getResolutionDependencies(e, t) {
            return []
        }
        async getCandidates(e, t, r) {
            const A = await v(e.range, r.project.configuration)
            return [o.makeLocator(e, A)]
        }
        async getSatisfying(e, t, r) {
            return null
        }
        async resolve(e, t) {
            if (!t.fetchOptions)
                throw new Error(
                    'Assertion failed: This resolver cannot be used unless a fetcher is configured',
                )
            const r = await t.fetchOptions.fetcher.fetch(e, t.fetchOptions),
                A = await s.releaseAfterUseAsync(
                    async () =>
                        await N.G.find(r.prefixPath, { baseFs: r.packageFs }),
                        r.releaseFs,
                )
            return {
                ...e,
                version: A.version || '0.0.0',
                languageName: t.project.configuration.get(
                    'defaultLanguageName',
                ),
                linkType: k.Un.HARD,
                dependencies: A.dependencies,
                peerDependencies: A.peerDependencies,
                dependenciesMeta: A.dependenciesMeta,
                peerDependenciesMeta: A.peerDependenciesMeta,
                bin: A.bin,
            }
        }
    }
]
async fetchFromNetwork(e, t) {
  const r = await n.get(this.getLocatorUrl(e, t), {
    configuration: t.project.configuration,
  })
  return await s.xfs.mktempPromise(async (n) => {
    const l = new a.M(n)
    await o.extractArchiveTo(r, l, { stripComponents: 1 })
    const u = g.gitUtils.splitRepoUrl(e.reference),
      h = c.y1.join(n, 'package.tgz')
    await i.prepareExternalProject(n, h, {
      configuration: t.project.configuration,
      report: t.report,
      workspace: u.extra.workspace,
    })
    const p = await s.xfs.readFilePromise(h)
    return await o.convertToZip(p, {
      compressionLevel: t.project.configuration.get('compressionLevel'),
      prefixPath: A.getIdentVendorPath(e),
      stripComponents: 1,
    })
  })
}

getLocatorUrl(e, t) {
  const {
    auth: r,
    username: A,
    reponame: n,
    treeish: o,
  } = (function (e) {
    let t
    for (const r of h) if (((t = e.match(r)), t)) break
    if (!t)
      throw new Error(`Input cannot be parsed as a valid GitHub URL ('${e}').`,
        `^([a-zA-Z0-9\-._]*)/([a-zA-Z0-9\-._]*)/([a-zA-Z0-9\-._]*)/([a-zA-Z0-9\-._]*)/([a-zA-Z0-9\-._]*)/([a-zA-Z0-9\-._]*)$`,
      )
    let [, r, A, n, o = 'master'] = t
    const { commit: i } = u().parse(o)
    return {
      (o = i || o.replace(/[^/]*$/)) ||
        [ auth: r, username: A, reponame: n, treeish: o ]
    })
  })(e.reference)
  return `https://${r ? r + '@' : ''}

github.com/${A}/${n}/archive/${o}.tar.gz
}
}
const d = {
  hooks: {
    async fetchHostedRepository(e, t, r) {
      if (null !== e) return e
      const A = new p()
      if (!A.supports(t, r)) return null
      try {
        return await A.fetch(t, r)
      } catch (e) {
        return null
      }
    },
  },
},
}
99148: (e, t, r) => {
  'use strict'
  r.r(t), r.d(t, { default: () => l })
  var A = r(54143),
  n = r(79669),
  o = r(72785)
  const i = /^\[^?]*\.(?:tar\.gz|tgz)(?:\?.*)?$/,
  s = /^https?:/
  var a = r(46611),
  c = r(32485),
  g = r(73632)
  const l = {
    fetchers: [
      class {
        supports(e, t) {
          return !!i.test(e.reference) && !!s.test(e.reference)
        }
      },
      getLocalPath(e, t) {
        return null
      },
      async fetch(e, t) {
        const r = t.checksums.get(e.locatorHash) || null,
        [n, o, i] = await t.cache.fetchPackageFromCache(e, r, {
          onHit: () => t.report.reportCacheHit(e),
          onMiss: () =>
            t.report.reportCacheMiss(e,
            A.prettyLocator(t.project.configuration, e) +
            " can't be found in the cache and will be fetched from the remote server",
          ),
        }),
    ]
  }}
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```
loader: () => this.fetchFromNetwork(e, t),
skipIntegrityCheck: t.skipIntegrityCheck,
})
return {
  packageFs: n,
  releaseFs: o,
  prefixPath: A.getIdentVendorPath(e),
  checksum: i,
}
}
async fetchFromNetwork(e, t) {
  const r = await n.get(e.reference, {
    configuration: t.project.configuration,
  })
  return await o.convertToZip(r, {
    compressionLevel: t.project.configuration.get('compressionLevel'),
    prefixPath: A.getIdentVendorPath(e),
    stripComponents: 1,
  })
}
},
],
resolvers: [
  class {
    supportsDescriptor(e, t) {
      return !!i.test(e.range) && !!s.test(e.range)
    }
    supportsLocator(e, t) {
      return !!i.test(e.reference) && !!s.test(e.reference)
    }
    shouldPersistResolution(e, t) {
      return !0
    }
    bindDescriptor(e, t, r) {
      return e
    }
    getResolutionDependencies(e, t) {
      return []
    }
  }
  async getCandidates(e, t, r) {
    return [A.convertDescriptorToLocator(e)]
  }
  async getSatisfying(e, t, r) {
    return null
  }
  async resolve(e, t) {
```
if (!t.fetchOptions)
    throw new Error(
        'Assertion failed: This resolver cannot be used unless a fetcher is configured',
    )
const r = await t.fetchOptions.fetcher.fetch(e, t.fetchOptions),
A = await g.releaseAfterUseAsync(
    async () =>
        await a.G.find(r.prefixPath, { baseFs: r.packageFs }),
    r.releaseFs,
)
return {
    ...e,
    version: A.version || '0.0.0',
    languageName: t.project.configuration.get('defaultLanguageName',
    ),
    linkType: c.Un.HARD,
    dependencies: A.dependencies,
    peerDependencies: A.peerDependencies,
    dependenciesMeta: A.dependenciesMeta,
    peerDependenciesMeta: A.peerDependenciesMeta,
    bin: A.bin,
    },
},
},
64314: (e, t, r) => {
    'use strict'
    r.r(t), r.d(t, { default: () => I })
var A = r(39922),
n = r(36370),
o = r(25413),
i = r(46611),
s = r(85824),
a = r(6220),
c = r(63088),
g = r(54143),
l = r(43896),
u = r(46009),
h = r(40822),
p = r(80305),
d = r.n(p),
C = r(31669)
class f extends o.BaseCommand {
    constructor() {
        super(...arguments),
    }
async execute() {
  if (l.xfs.existsSync(u.y1.join(this.context.cwd, i.G.fileName)))
    throw new h.UsageError(
      'A package.json already exists in the specified directory',
    )
  const e = await A.VK.find(this.context.cwd, this.context.plugins),
    t = this.install
  ? t === this.install
  ? 'latest'
  : null
  return null !== t
  ? await this.executeProxy(e, t)
  : await this.executeRegular(e)
}
async executeProxy(e, t) {
  if (null !== e.get('yarnPath'))
    throw new h.UsageError(
      `Cannot use the --install flag when the current directory already uses yarnPath (from ${e.sources.get('yarnPath')})`,
    )
  if (null !== e.projectCwd)
    throw new h.UsageError(
      'Cannot use the --install flag when the current directory is already part of a project',
    )
  if (null !== e.projectCwd)
    throw new h.UsageError(
      'Cannot use the --install flag when the current directory is already part of a project',
    )
  if (l.xfs.existsSync(this.context.cwd) ||
    (await l.xfs.mkdirPromise(this.context.cwd, { recursive: !0 })))
  const r = u.y1.join(this.context.cwd, e.get('lockfileFilename'))
  if (l.xfs.existsSync(r) || (await l.xfs.writeFilePromise(r, '')))
    const A = await this.cli.run(['set', 'version', t])
    if (0 !== A) return A
  this.context.stdout.write('
')
  const n = ['--assume-fresh-project']
  return (n.push('-p'),
    n.push('-w'),
    n.push('-y'),
    await l.xfs.mktempPromise(async (e) => {
        const { code: t } = await a.pipevp('yarn', ['init', ...n], { cwd: this.context.cwd,})
    })
  )
}
async executeRegular(e) {
    let t = null
    if (!this.assumeFreshProject)
        try {
            t = await s.I.find(e, this.context.cwd)
        } catch (e) {
            t = null
        }
    l.xfs.existsSync(this.context.cwd) ||
        (await l.xfs.mkdirPromise(this.context.cwd, { recursive: !0 }));
    const r = new i.G(),
        A = Object.fromEntries(e.get('initFields').entries())
    r.load(A),
        (r.name = g.makeIdent(
            e.get('initScope'),
            u.y1.basename(this.context.cwd),
        ),
        (r.version = e.get('initVersion')),
        (r.private = this.private || this.workspace),
        (r.license = e.get('initLicense')),
        this.workspace &&
            (await l.xfs.mkdirPromise(
                u.y1.join(this.context.cwd, 'packages'),
                { recursive: !0 },
            ),
            (r.workspaceDefinitions = [{ pattern: 'packages/*' }])
        )
    const n = {};
    r.exportTo(n),
        (C.inspect.styles.name = 'cyan'),
        this.context.stdout.write(
            (0, C.inspect)(n, { depth: 1 / 0, colors: !0, compact: !1 }) +
            '\n',
        )
    const o = u.y1.join(this.context.cwd, i.G.fileName)
    await l.xfs.changeFilePromise(o, JSON.stringify(n, null, 2) + '\n')
    const c = u.y1.join(this.context.cwd, 'README.md')
    if (l.xfs.existsSync(c) ||
        (await l.xfs.writeFilePromise(}
c,
`# \${g.stringifyIdent(r.name)}\n`,
}),
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)
await a.execvp('git', ['init'], { cwd: this.context.cwd })
}
}

t description = h.Command.Usage({
    description: 'create a new package',
    details: 
        '
        This command will setup a new package in your local directory. In the `-p,--private` or `-w,--workspace` options are set, the package will be private by default. If the `-w,--workspace` option is set, the package will be configured to accept a set of workspaces in the `packages/` directory. If the `-i,--install` option is given a value, Yarn will first download it using `yarn set version` and only then forward the init call to the newly downloaded bundle. Without arguments, the downloaded bundle will be `latest`. The initial settings of the manifest can be changed by using the `initScope` and `initFields` configuration values. Additionally, Yarn will generate an EditorConfig file whose rules can be altered via `initEditorConfig`, and will initialize a Git repository in the current directory. '
    examples: [
        ['Create a new package in the local directory', 'yarn init'],
        ['Create a new private package in the local directory', 'yarn init -p'],
        ['Create a new package and store the Yarn release inside', 'yarn init -i latest'],
        ['Create a new private package and defines it as a workspace root', 'yarn init -w'],
    ]),
}(0, n.gn)(
    [h.Command.Boolean('-2', { hidden: !0 })],
    f.prototype,
    'usev2',
    void 0,
).
}.
(0, n.gn)(
    [h.Command.Boolean('--assume-fresh-project', { hidden: !0 })],
    f.prototype,
    'assumeFreshProject',
    void 0,
).
(0, n.gn)(
    [h.Command.Boolean('-y,--yes', { hidden: !0 })],
    f.prototype,
    'yes',
    void 0,
)
h.Command.Boolean('-p,--private', {
    description: 'Initialize a private package',
});
]);

f.prototype,
'private',
void 0,
);

h.Command.Boolean('-w,--workspace', {
    description: 'Initialize a private workspace root with a `packages/` directory',
});
]

f.prototype,
'workspace',
void 0,
);

h.Command.String('-i,--install', {
    tolerateBoolean: !0,
    description: 'Initialize a package with a specific bundle that will be locked in the project',
});
]

f.prototype,
'install',
void 0,
);

(h.Command.Path('init'), f.prototype, 'execute', null)

const I = {
    configuration: {
        initLicense: {
            description: 'License used when creating packages via the init command',
            type: A.a2.STRING,
            default: null,
        },
        initScope: {
            description: 'Scope used when creating packages via the init command',
            type: A.a2.STRING,
            default: null,
        },
    },
}
initVersion: {
  description: 'Version used when creating packages via the init command',
  type: A.a2.STRING,
  default: null,
},
initFields: {
  description: 'Additional fields to set when creating packages via the init command',
  type: A.a2.MAP,
  valueDefinition: { description: '', type: A.a2.ANY },
},
initEditorConfig: {
  description: 'Extra rules to define in the generator editorconfig',
  type: A.a2.MAP,
  valueDefinition: { description: '', type: A.a2.ANY },
},

class {
  supports(e, t) {
    return !!e.reference.startsWith('link:')
  }
  getLocalPath(e, t) {
    const { parentLocator: r, path: o, } = A.parseFileStyleRange(e.reference, { protocol: 'link:' })
    if (n.y1.isAbsolute(o)) return o
    const i = t.fetcher.getLocalPath(r, t)
    return null === i ? null : n.y1.resolve(i, o)
  }
}
async fetch(e, t) {
    const {
        parentLocator: r,
        path: s,
    } = A.parseFileStyleRange(e.reference, { protocol: 'link:' }),
    a = n.y1.isAbsolute(s)
    ? {
        packageFs: new o.M(n.LZ.root),
        prefixPath: n.LZ.dot,
        localPath: n.LZ.root,
    }
    : await t.fetcher.fetch(r, t),
    c = a.localPath
    ? {
        packageFs: new o.M(n.LZ.root),
        prefixPath: n.y1.relative(n.LZ.root, a.localPath),
    }
    : a
    a !== c && a.releaseFs && a.releaseFs()
    const g = c.packageFs,  
    l = n.y1.join(c.prefixPath, s)
    return a.localPath
    ? {
        packageFs: new o.M(l, { baseFs: g }),
        releaseFs: c.releaseFs,
        prefixPath: n.LZ.dot,
        discardFromLookup: !0,
        localPath: l,
    }
    : {
        packageFs: new i.n(l, { baseFs: g }),
        releaseFs: c.releaseFs,
        prefixPath: n.LZ.dot,
        discardFromLookup: !0,
    }
}
}

class {
    supports(e, t) {
        return !e.reference.startsWith('portal:')
    }
}

getLocalPath(e, t) {
    const {
        parentLocator: r,
        path: o,
    } = A.parseFileStyleRange(e.reference, { protocol: 'portal:' })
    if (n.y1.isAbsolute(o)) return o
    const i = t.fetcher.getLocalPath(r, t)
async fetch(e, t) {
    const {
        parentLocator: r,
        path: s,
    } = A.parseFileStyleRange(e.reference, {
        protocol: 'portal:',
    }),
    a = n.y1.isAbsolute(s)
    ? {
        packageFs: new o.M(n.LZ.root),
        prefixPath: n.LZ.dot,
        localPath: n.LZ.root,
    }
    : await t.fetcher.fetch(r, t),
    c = a.localPath
    ? {
        packageFs: new o.M(n.LZ.root),
        prefixPath: n.y1.relative(n.LZ.root, a.localPath),
    }
    : a
    a !== c && a.releaseFs && a.releaseFs()
    const g = c.packageFs,
    l = n.y1.join(c.prefixPath, s)
    return a.localPath
    ? {
        packageFs: new o.M(l, { baseFs: g }),
        releaseFs: c.releaseFs,
        prefixPath: n.LZ.dot,
        localPath: l,
    }
    :
        {
            packageFs: new i.n(l, { baseFs: g }),
            releaseFs: c.releaseFs,
            prefixPath: n.LZ.dot,
        }
    }},
].
].
resolvers: [
    class {
        supportsDescriptor(e, t) {
            return !!e.range.startsWith('link:')
        }
        supportsLocator(e, t) {
            return !!e.reference.startsWith('link:')
        }
    }
]
shouldPersistResolution(e, t) {
    return !1
}

bindDescriptor(e, t, r) {
    return A.bindDescriptor(e, { locator: A.stringifyLocator(t) })
}

getResolutionDependencies(e, t) {
    return []
}

async getCandidates(e, t, r) {
    const o = e.range.slice('link:'.length)
    return [A.makeLocator(e, 'link:' + n.cS.toPortablePath(o))]
}

async getSatisfying(e, t, r) {
    return null
}

async resolve(e, t) {
    return {
        ...e,
        version: '0.0.0',
        languageName: t.project.configuration.get(
            'defaultLanguageName',
        ),
        linkType: a.Un.SOFT,
        dependencies: new Map(),
        peerDependencies: new Map(),
        dependenciesMeta: new Map(),
        peerDependenciesMeta: new Map(),
        bin: new Map(),
    }
}

class {
    supportsDescriptor(e, t) {
        return !!e.range.startsWith('portal:')
    }

    supportsLocator(e, t) {
        return !!e.reference.startsWith('portal:')
    }

    shouldPersistResolution(e, t) {
        return !1
    }

    bindDescriptor(e, t, r) {
        return A.bindDescriptor(e, { locator: A.stringifyLocator(t) })
    }

    getResolutionDependencies(e, t) {
        return []
    }
}
async getCandidates(e, t, r) {
    const o = e.range.slice('portal:'.length)
    return [A.makeLocator(e, 'portal:' + n.cS.toPortablePath(o))]
}

async getSatisfying(e, t, r) {
    return null
}

async resolve(e, t) {
    if (!t.fetchOptions)
        throw new Error(
            'Assertion failed: This resolver cannot be used unless a fetcher is configured',
        )
    const r = await t.fetchOptions.fetcher.fetch(e, t.fetchOptions),
    A = await c.releaseAfterUseAsync(
        async () =>
            await s.G.find(r.prefixPath, { baseFs: r.packageFs } ),
        r.releaseFs,
    )
    return {
        ...e,
        version: A.version || '0.0.0',
        languageName: t.project.configuration.get(
            'defaultLanguageName',
        ),
        linkType: a.Un.SOFT,
        dependencies: new Map([
            ...A.dependencies,
            ...A.devDependencies,
        ]),
        peerDependencies: A.peerDependencies,
        dependenciesMeta: A.dependenciesMeta,
        peerDependenciesMeta: A.peerDependenciesMeta,
        bin: A.bin,
    }
}

8375: (e, t, r) => {
    'use strict'
    r.r(t), r.d(t, { default: () => ne, getPnpPath: () => Ae })
    var A,
    n = r(39922),
    o = r(46009),
    i = r(54143)
    !(function (e) {
        ;(e[(e.YES = 0)] = 'YES'),
(e[(e.NO = 1)] = 'NO'),
(e[(e.DEPENDS = 2)] = 'DEPENDS')
})(A || (A = {}))
const s = (e, t) => `${e}@${t}`,
a = (e, t) => {
    const r = t.indexOf('#'),
    A = r >= 0 ? t.substring(r + 1) : t
    return s(e, A)
}
var c
!(function (e) {
    ;(e[(e.NONE = -1)] = 'NONE'),
    (e[(e.PERF = 0)] = 'PERF'),
    (e[(e.CHECK = 1)] = 'CHECK'),
    (e[(e.REASONS = 2)] = 'REASONS'),
    (e[(e.EXTENSIVE_CHECK = 9)] = 'EXTENSIVE_CHECK')
})(c || (c = {}))
const g = (e, t) => {
    if (t.decoupled) return t
    const {
        name: r,
        references: A,
        ident: n,
        locator: o,
        dependencies: i,
        originalDependencies: s,
        hoistedDependencies: a,
        peerNames: c,
        reasons: g,
        isHoistBorder: l,
    } = t,
    u = {
        name: r,
        references: new Set(A),
        ident: n,
        locator: o,
        dependencies: new Map(i),
        originalDependencies: new Map(s),
        hoistedDependencies: new Map(a),
        peerNames: new Set(c),
        reasons: new Map(g),
        decoupled: !0,
        isHoistBorder: l,
    },
    h = u.dependencies.get(r)
    return (h && h.ident) || u.ident && u.dependencies.set(r, u),
e.dependencies.set(u.name, u),
}
u
}
}

l = (e) => {
  const t = new Set(),
  r = (A, n = new Set()) => {
    if (!n.has(A)) {
      n.add(A)
      for (const o of A.peerNames)
        if (!e.peerNames.has(o)) {
          const A = e.dependencies.get(o)
          A && !t.has(A) && r(A, n)
        }
      t.add(A)
    }
  }
  for (const t of e.dependencies.values())
    e.peerNames.has(t.name) || r(t)
  return t
},
u = (e, t, r, A, n = new Set()) => {
  const o = t[t.length - 1]
  if (n.has(o)) return
  n.add(o)
  const i = ((e, t) => {
    const r = new Map([[e.name, [e.ident]]])
    for (const t of e.dependencies.values())
      e.peerNames.has(t.name) || r.set(t.name, [t.ident])
    const A = Array.from(t.keys())
    A.sort((e, r) => {
      const A = t.get(e),
      n = t.get(r)
      return n.peerDependents.size !== A.peerDependents.size
        ? n.peerDependents.size - A.peerDependents.size
        : n.dependents.size - A.dependents.size
    })
    for (const t of A) {
      const A = t.substring(0, t.indexOf('@', 1)),
      n = t.substring(A.length + 1)
      if (!e.peerNames.has(A)) {
        let e = r.get(A)
        e || ((e = []), r.set(A, e)), e.indexOf(n) < 0 && e.push(n)
      }
    }
    return r
  })(o, E(o)),
s = new Map(Array.from(i.entries()).map(([e, t]) => [e, t[1]])),
a =
new Map()

const t = new Map(),
    r = new Set(),
A = (n) => {
    if (!r.has(n)) {
        r.add(n)
        for (const r of n.hoistedDependencies.values())
            e.dependencies.has(r.name) || t.set(r.name, r)
        for (const e of n.dependencies.values())
            n.peerNames.has(e.name) || A(e)
    }
}
return A(e), t
})}

let c

let a,
    c = null,
    g = new Set()
s &&
(a =
" +
Array.from(e)
	.map((e) => B(e))
	.join(""))
const l = [t.length - 1],
u = r.ident === l.ident,
h = o.get(r.name)
let p = h === r.ident && !u
if (
    s &&
    !p &&
h &&
!u &&
let e = !1
const A = n.get(r.name)
if (e = !A || A.ident === r.ident),
s && !e && (c = ` - filled by: ${B(A.locator)} at ${a}`), e)
)
for (let A = 1; A < t.length - 1; A++)
    const n = t[A],
    o = n.dependencies.get(r.name)
    if (o && o.ident !== r.ident) {
        (e = !1),
        s &&
        (c = ` - filled by: ${B(o.locator)} at ${B(n.locator)}`)
        break
    }
}
p = e
}
if (p) {
    let e = !0
    const A = new Set(r.peerNames)
    for (let r = t.length - 1; r >= 1; r--) {
        const n = t[r]
        for (const o of A) {
            if (n.peerNames.has(o) && n.originalDependencies.has(o))
                continue
            const i = n.dependencies.get(o)
            i &&
            (r === t.length - 1
                ? g.add(i)
                : ((g = null),
                    (e = !1),
                    s &&
                    (c = `peer dependency ${B(i.locator, )} from parent ${B(n.locator, )} was not hoisted to ${a}`)),
                    A.delete(o)
                )
            if (!e) break
        }
    }
p = e
}
return null !== g && g.size > 0
? { isHoistable: A.DEPENDS, dependsOn: g, reason: c }
: { isHoistable: p ? A.YES : A.NO, reason: c }
},

p = (e, t, r, n, o, i, s) => {
const a = t[t.length - 1],
u = new Set(),
p = (t, C, I, E) => {
if (u.has(I)) return
const m = [...C, I.locator],
w = new Map(),
Q = new Map()
for (const e of l(I)) {
  let g = null
  if (g ||
    (g = h(r, [a, ...t, I], e, n, o, i, {
      outputReason: s.debugLevel >= c.REASONS,
    })),
    Q.set(e, g),
    g.isHoistable === A.DEPENDS)
  )
    for (const t of g.dependsOn) {
      const r = w.get(t.name) || new Set()
      r.add(e.name), w.set(t.name, r)
    }
  }
  const D = new Set(),
b = (e, t, r) => {
    if (!D.has(e)) {
      D.add(e),
      e.ident !== I.ident &&
      Q.set(e, { isHoistable: A.NO, reason: r })
      for (const A of w.get(e.name) || [])
        b(A.dependencies.get(A), t, r)
    }
  }
  let v
  s.debugLevel >= c.REASONS &&
  (v = 
    " +
    Array.from(r)
    .map((e) => B(e))
    .join(""")
  )
  for (const [e, t] of Q)
    t.isHoistable === A.NO &&
    b(
e,
t,
  `- peer dependency B(e.locator) from parent B(1.locator,
  ) was not hoisted to $v`,
)

for (const e of Q.keys())
  if (!D.has(e)) {
    I.dependencies.delete(e.name),
    I.hoistedDependencies.set(e.name, e),
    I.reasons.delete(e.name)
    const t = a.dependencies.get(e.name)
    if (t) for (const r of e.references) t.references.add(r)
    else
      a.ident !== e.ident &&
      (a.dependencies.set(e.name, e), E.add(e))
  }

  if (s.check) {
    const r = d(e)
    if (r)
      throw new Error(`$r`, after hoisting dependencies of $[a, ...t, I]
        .map(e => B(e.locator))
        .join('')$:n$y(e)`,
    )
  }

  const S = l(I)
  for (const e of S)
    if (D.has(e) && m.indexOf(e.locator) < 0) {
      const r = Q.get(e)
      if (r.isHoistable !== A.YES &&
        I.reasons.set(e.name, r.reason),
        !e.isHoistBorder)
        } {
          u.add(I)
          const r = g(I, e)
          p([...t, I], [...C, I.locator], r, f), u.delete(I)
        }
  
  }

let C,
  f = new Set(l(a))
do {
  ;(C = f), (f = new Set())
  for (const e of C) {
    if (e.locator === a.locator || e.isHoistBorder) continue
    const t = g(a, e)
    p([], Array.from(r), t, f)
while (f.size > 0)
{
d = (e) => {
    const t = [],
    r = new Set(),
    A = new Set(),
    n = (e, o) => {
        if (r.has(e)) return
        if ((r.add(e), A.has(e))) return
        const i = new Map(o)
        for (const t of e.dependencies.values())
            e.peerNames.has(t.name) || i.set(t.name, t)
        for (const r of e.originalDependencies.values()) {
            const n = i.get(r.name),
            s = () =>
                " +
                Array.from(A)
                    .concat([e])
                    .map((e) => B(e.locator))
                    .join(""
            if (e.peerNames.has(r.name)) {
                const e = o.get(r.name)
                :(e === n &&& e &&& e.ident === r.ident) ||
                t.push(
                    `$s() - broken peer promise: expected ${
                        r.ident
                    } but found ${e ? e.ident : e}`,
                )
            } else
            n
            ? n.ident !== r.ident &&
            t.push(
                `$s() - broken require promise for ${
                    r.name
                } : expected ${r.ident}, but found: ${n.ident}`,
            )
            : t.push(
                `$s() - broken require promise: no required dependency ${
                    r.locator
                } found`,
            )
        }
    A.add(e)
    for (const t of e.dependencies.values())
        e.peerNames.has(t.name) || n(t, i)
    A.delete(e)
}
"}
return n(e, e.dependencies), t.join('n')
},
C = (e, t) => {
const { identName: r, name: A, reference: n, peerNames: o } = e,
i = {
    name: A,
    references: new Set([n]),
    locator: s(r, n),
    ident: a(r, n),
    dependencies: new Map(),
    originalDependencies: new Map(),
    hoistedDependencies: new Map(),
    peerNames: new Set(o),
    reasons: new Map(),
    decoupled: !0,
    isHoistBorder: !0,
},
c = new Map([[e, i]]),
g = (e, r) => {
    let A = c.get(e)
    const n = !!A
    if (!A) {
        const {
            name: n,
            identName: o,
            reference: i,
            peerNames: g,
        } = e,
        l = t.hoistingLimits.get(r.locator)
        ;(A = {
            name: n,
            references: new Set([i]),
            locator: s(o, i),
            ident: a(o, i),
            dependencies: new Map(),
            originalDependencies: new Map(),
            hoistedDependencies: new Map(),
            peerNames: new Set(g),
            reasons: new Map(),
            decoupled: !0,
            isHoistBorder: !!l && l.has(n),
        }),
        c.set(e, A)
    }
    if (
        (r.dependencies.set(e.name, A),
        r.originalDependencies.set(e.name, A),
        n)
```javascript
const e = new Set(),
t = (r) => {
  if (!e.has(r)) {
    e.add(r), (r.decoupled = !1)
    for (const e of r.dependencies.values())
      r.peerNames.has(e.name) || t(e)
  }
}
t(A)
} else for (const t of e.dependencies) g(t, A)
}
for (const t of e.dependencies) g(t, i)
return i
},
f = (e) => e.substring(0, e.indexOf('@', 1)),
I = (e) => {
  const t = {
    name: e.name,
    identName: f(e.locator),
    references: new Set(e.references),
    dependencies: new Set(),
  },
  r = new Set([e]),
  A = (e, t, n) => {
    const o = r.has(e)
    let i
    if (t === e) i = n
    else {
      const { name: t, references: r, locator: A } = e
      i = {
        name: t,
        identName: f(A),
        references: r,
        dependencies: new Set(),
      }
    }
    if ((n.dependencies.add(i), !o)) {
      r.add(e)
      for (const t of e.dependencies.values())
        e.peerNames.has(t.name) || A(t, e, i)
      r.delete(e)
    }
  }
  for (const r of e.dependencies.values()) A(r, e, t)
  return t
},
E = (e) => {
```
const t = new Map(),
  r = new Set([e]),
A = (e) => {
  const r = ((e) => `${e.name}@${e.ident}`)(e)
  let A = t.get(r)
  return (A
    (A = (icons: new Set(), peerIcons: new Set()),
     t.set(r, A)),
   )
},

n = (e, t) => {
  const o = !!r.has(t)
  if ((A(t).dependents.add(e.ident), !o)) {
    r.add(t)
    for (const e of t.dependencies.values())
      if (t.peerNames.has(e.name)) {
        k(e).peerIcons.add(t.ident)
      } else n(t, e)
  }
}

for (const t of e.dependencies.values())
e.peerNames.has(t.name) || n(e, t)
return t
},
B = (e) => {
  const t = e.indexOf('@', 1),
  r = e.substring(0, t),
  A = e.substring(t + 1)
  if ('workspace:' === A) return '.'
  if (A) {
    const e = (A.indexOf('#') > 0 ? A.split('#')[1] : A).replace(  
      'npm:',
      '',
    )
    return A.startsWith('virtual') ? `v:${r}@${e}` : `${r}@${e}`
  }
  return r
},

y = (e) => {
  let t = 0
  const r = (e, A, n = '') => {
    if (t > 5e4 || A.has(e)) return ''
    t++
    const o = Array.from(e.dependencies.values())
    let i = ''
    A.add(e)
for (let t = 0; t < o.length; t++) {
    const s = o[t]
    if (!e.peerNames.has(s.name)) {
        const a = e.reasons.get(s.name),
            c = f(s.locator);
        (i += `$\{n}\$\{t < o.length - 1 ? '' : ''\}$(A.has(s) ? 'a' : '') +
            (c !== s.name ? `a:${s.name}:` : '') +
            B(s.locator) +
            (a ? '' + a : '')
        )\n    },
    (i += r(s, A, `$\{n}\$\{t < o.length - 1 ? '' : ''\}`))
}
return A.delete(e), i
}
return (r(e, new Set()) +
(t > 5e4
    ? '\nTree is too large, part of the tree has been dumped\n' + "
    )
)
}

var m, w
!(function (e) {
    (e.HARD = 'HARD'), (e.SOFT = 'SOFT')
})(m || (m = {})),
!(function (e) {
    (e.WORKSPACES = 'workspaces'),
    (e.DEPENDENCIES = 'dependencies'),
    (e.NONE = 'none')
})(w || (w = {}))
const Q = (e, t) => {
    const { packageTree: r, hoistingLimits: A } = b(e, t),
        n = ((e, t = {}) => {
            const r =
                t.debugLevel ||
            Number(process.env.NM_DEBUG_LEVEL || c.NONE),
            A = {
                check: t.check || r >= c.INTENSIVE_CHECK,
                debugLevel: r,
                hoistingLimits: t.hoistingLimits || new Map(),
            };
            A.debugLevel >= c.PERF && console.time('hoist')
        })(e, t),
        n = C(e, A)
    if (u(n, [n], new Set([n.locator]), A),
        A.debugLevel >= c.PERF && console.timeEnd('hoist'),
    )
}
A.debugLevel >= c.CHECK
) {
    const e = d(n)
    if (e)
        throw new Error(`${e}, after hoisting finished:
${y(n)}`)
}
return A.debugLevel >= c.REASONS && console.log(y(n)), I(n)
})(r, { hoistingLimits: A })
return v(e, n, t)
},
D = (e) => `${e.name}@${e.reference}`
const b = (e, t) => {
    const r = e.getDependencyTreeRoots(),
        A = new Map(),
        n = new Map(),
        s = e.getPackageInformation(e.topLevel)
    if (null === s)
        throw new Error(
            'Assertion failed: Expected the top-level package to have been registered',
        )
    const a = e.findPackageLocator(s.packageLocation)
    if (null === a)
        throw new Error(
            'Assertion failed: Expected the top-level package to have a physical locator',
        )
    const c = o.cS.toPortablePath(s.packageLocation),
        g = D(a)
    if (t.project) {
        const e = { children: new Map() },
            r = t.project.cwd.split(o.y1.sep)
        for (const [A, n] of t.project.workspacesByCwd) {
            const t = A.split(o.y1.sep).slice(r.length)
            let s = e
            for (const e of t) {
                let t = s.children.get(e)
                t || ((t = { children: new Map() }), s.children.set(e, t)),
                (s = t)
            }
            s.workspaceLocator = {
                name: i.stringifyIdent(n.anchoredLocator),
                reference: n.anchoredLocator.reference,
            }
        }
    }
    const A = (e, t) => {
        if (e.workspaceLocator) {
            const r = D(t)
            let A = n.get(r)
            A || ((A = new Set()), n.set(r, A)), A.add(e.workspaceLocator)
for (const r of e.children.values()) A(r, e.workspaceLocator || t) }
} else
for (const e of r)
  if (e.name !== a.name || e.reference !== a.reference) {
    let t = n.get(g)
    t || ((t = new Set()), n.set(g, t)), t.add(e)
  }

const l = {
  name: a.name,
  identName: a.name,
  reference: a.reference,
  peerNames: s.packagePeers,
  dependencies: new Set(),
},

u = new Map(),

h = (r, s, g, p, d, C, f) => {
  var I, E
  const B = ((e, t) => `${D(t)}:${e}`)(r, g)
  let y = u.get(B)
  const m = !!y
  if (
    m ||
    g.name !== a.name ||
    g.reference !== a.reference ||
    ((y = l), u.set(B, l)),
    y ||
    ((y = {
      name: r,
      identName: g.name,
      reference: g.reference,
      dependencies: new Set(),
      peerNames: s.packagePeers,
    }),
    u.set(B, y)),
    f)
  ) {
    const e = D({ name: p.identName, reference: p.reference }),
    t = A.get(e) || new Set()
    A.set(e, t), t.add(y.name)
  }

const Q = new Map(s.packageDependencies)
if (t.project) {
  const e = t.project.workspacesByCwd.get(
    o.cS.toPortablePath(s.packageLocation.slice(0, -1)),
  )
}
if (e) {
  const t = new Set([
    ...Array.from(e.manifest.peerDependencies.values(), (e) =>
      i.stringifyIdent(e),
    ),
    ...Array.from(e.manifest.peerDependenciesMeta.keys()),
  ])
  for (const e of t)
    Q.has(e) || (Q.set(e, d.get(e) || null), y.peerNames.add(e))
}
const b = D(g),
  v = n.get(b)
if (v) for (const e of v) Q.set(e.name + '$wsroot$', e.reference)
p.dependencies.add(y)
const S =
  t.pnpifyFs ||
  !(function (e) {
    let t = i.parseDescriptor(e)
    return (i.isVirtualDescriptor(t) &&
      (t = i.devirtualizeDescriptor(t)),
      t.range.startsWith('portal:')
    )
  })(B)
if (!m && S)
  for (const [r, A] of Q)
    if (null !== A) {
      const n = e.getLocator(r, A),
        i = e.getLocator(r.replace('$wsroot$', ''), A),
        s = e.getPackageInformation(i)
      if (null === s)
        throw new Error(
          'Assertion failed: Expected the package to have been registered',
        )
      const a =
        null === (I = t.hoistingLimitsByCwd) || void 0 === I
        ? void 0
        : I.get(C),
      g =
        o.y1.relative(
          c,
          o.cS.toPortablePath(s.packageLocation),
        ) || o.LZ.dot,
      l =
        null === (E = t.hoistingLimitsByCwd) || void 0 === E
        ? void 0
        : E.get(g),
u =
  a === w.DEPENDENCIES ||
  l === w.DEPENDENCIES ||
  l === w.WORKSPACES
h(r, s, n, y, Q, g, u)
}
}
return {
  h(a.name, s, a, l, s.packageDependencies, o.LZ.dot, ![1]),
  { packageTree: l, hoistingLimits: A }
}
}
const v = (e, t, r) => {
  const A = new Map(),
  n = (t, A) => {
    const { linkType: n, target: i } = (function (e, t, r) {
      const A = t.getLocator(
        e.name.replace('$wsroot$', ''),
        e.reference,
      ),
      n = t.getPackageInformation(A)
      if (null === n)
        throw new Error(
          'Assertion failed: Expected the package to be registered',
        )
      let i, s
      if (r.pnpifyFs)
        (s = o.cS.toPortablePath(n.packageLocation)), (i = m.SOFT)
      else {
        const r =
          t.resolveVirtual &&
          e.reference &&
          e.reference.startsWith('virtual:')
        ? t.resolveVirtual(n.packageLocation)
        : n.packageLocation
        ;(s = o.cS.toPortablePath(r || n.packageLocation)),
        (i = n.linkType)
      }
      return { linkType: i, target: s }
    })(t, e, r)
    return { locator: D(t), target: i, linkType: n, aliases: A }
  },
  s = (e) => {
    const [t, r] = e.split('/')
    return r
      ? { scope: (0, o.Zu)(t), name: (0, o.Zu)(r) }
      : { scope: null, name: (0, o.Zu)(t) }
  },
```javascript
a = new Set(),
c = (e, t) => {
  if (!a.has(e)) {
    a.add(e)
  }
  for (const r of e.dependencies) {
    if (r === e ||
      e.identName.endsWith('$wsroot$') &&
      r.identName === e.identName.replace('$wsroot$', ''))
      continue
  }
  const a = Array.from(r.references).sort(),
  g = { name: r.identName, reference: a[0] },
  h = u ? [u, l] : [l],
  p = o.y1.join(t, 'node_modules'),
  d = o.y1.join(p, ...h),
  C = n(g, a.slice(1))
  if (!r.name.endsWith('$wsroot$')) {
    const e = A.get(d)
    if (e) {
      if (e.dirList)
        throw new Error(`Assertion failed: ${d} cannot merge dir node with leaf node`);
    }
    const t = i.parseLocator(e.locator),
    r = i.parseLocator(C.locator)
    if (e.linkType !== C.linkType)
      throw new Error(`Assertion failed: ${d} cannot merge nodes with different link types`);
    if (t.identHash !== r.identHash)
      throw new Error(`Assertion failed: ${d} cannot merge nodes with different idents ${i.stringifyLocator(t)} and ${i.stringifyLocator(r)}`);
    C.aliases = [
      ...C.aliases,
      ...e.aliases,
      i.parseLocator(e.locator).reference,
    ];
    A.set(d, C)
  }
  t = d.split('/'),
  r = t.indexOf('node_modules')
```
let n = t.length - 1
for (; r >= 0 && n > r; ) {
    const e = o.cS.toPortablePath(
        t.slice(0, n).join(o.y1.sep),
    ),
    r = (0, o.Zu)(t[n]),
    i = A.get(e)
    if (i) {
        if (i.dirList) {
            if (i.dirList.has(r)) break
            i.dirList.add(r)
        }
        else A.set(e, { dirList: new Set([r]) })
    }
    n--
}
c(r, C.linkType === m.SOFT ? C.target : d)
}

const H = 'node_modules'
class J {
    constructor(e) {
        (this.opts = e),
        (this.localStore = new Map()),
        (this.customData = { store: new Map() })
    }
    getCustomDataKey() {
        return A.set(l, g), c(t, l), A
    }
}

var S = r(92659),
k = r(32485),
N = r(73632),
F = r(46611),
K = r(35691),
M = r(43896),
R = r(17674),
x = r(53660),
L = r(65281),
P = r(11640),
O = r(83228),
U = r(58069),
T = r.n(U),
j = r(40822),
Y = r(35747),
G = r.n(Y)
const H = 'node_modules'
class J {
    constructor(e) {
        :(this.opts = e),
        (this.localStore = new Map()),
        (this.customData = { store: new Map() })
    }
    getCustomDataKey() {
        return A.set(l, g), c(t, l), A
    }
}
return JSON.stringify({ name: 'NodeModulesInstaller', version: 1 })
}
attachCustomData(e) {
  this.customData = e
}
async installPackage(e, t) {
  var r
  const A = o.y1.resolve(t.packageFs.getRealPath(), t.prefixPath)
  let n = this.customData.store.get(e.locatorHash)
  if (0 === n &&
    ((n = await (async function (e, t) {
      var r
      const A =
        null !==
        (r = await F.G.tryFind(t.prefixPath, {
          baseFs: t.packageFs,
        })) && void 0 !== r
        ? r
        : new F.G(),
        n = new Set(['preinstall', 'install', 'postinstall'])
        for (const e of A.scripts.keys())
        n.has(e) || A.scripts.delete(e)
        return {
          manifest: {
            bin: A.bin,
            os: A.os,
            cpu: A.cpu,
            scripts: A.scripts,
          },
          misc: {
            extractHint: O.jsInstallUtils.getExtractHint(t),
            hasBindingGyp: O.jsInstallUtils.hasBindingGyp(t),
          },
        }
    })(0, t)),
    e.linkType === k.Un.HARD &&
    this.customData.store.set(e.locatorHash, n),
    !O.jsInstallUtils.checkAndReportManifestCompatibility(e,
    n,
    'link',
    { configuration: this.opts.project.configuration,
      report: this.opts.report,
    }));
  )
}
const s = new Map(),
a = new Set()
if (
  (s.has(i.stringifyIdent(e)) ||
   s.set(i.stringifyIdent(e), e.reference),
   i.isVirtualLocator(e))
)
  for (const t of e.peerDependencies.values())
    s.set(i.stringifyIdent(t), null), a.add(i.stringifyIdent(t))
const c = {
  packageLocation: o.cS.fromPortablePath(A) + '/',
  packageDependencies: s,
  packagePeers: a,
  linkType: e.linkType,
  discardFromLookup:
    null !== (r = t.discardFromLookup) && void 0 !== r && r,
}
return (
  this.localStore.set(e.locatorHash, {
    pkg: e,
    customPackageData: n,
    dependencyMeta: this.opts.project.getDependencyMeta(
      e,
      e.version,
    ),
    pnpNode: c,
  }),
  { packageLocation: A, buildDirective: null }
)
async attachInternalDependencies(e, t) {
  const r = this.localStore.get(e.locatorHash)
  if (void 0 === r)
    throw new Error(  
      'Assertion failed: Expected information object to have been registered',
    )
  for (const [e, A] of t) {
    const t = i.areIdentEqual(e, A)
      ? A.reference
      : [i.requirableIdent(A), A.reference]
    r.pnpNode.packageDependencies.set(i.requirableIdent(e), t)
  }

  async attachExternalDependents(e, t) {
    throw new Error(  
      'External dependencies haven't been implemented for the node-modules linker',
    )
  }
}
async finalizeInstall() {
    if (false) {
        'node-modules' !==
        this.opts.project.configuration.get('nodeLinker')
    }
    return
    const e = new R.p({
        baseFs: new x.A({
            libzip: await (0, L.getLibzipPromise()),
            maxOpenFiles: 80,
            readOnlyArchives: 0,
        }),
    })
    let t = await q(this.opts.project)
    if (null === t) {
        const e = this.opts.project.configuration.get('bstatePath')
        ;(await M.xfs.existsPromise(e)) & (await M.xfs.unlinkPromise(e)),
        (t = {
            locatorMap: new Map(),
            binSymlinks: new Map(),
            locationTree: new Map(),
        })
    }
    const r = new Map(
        this.opts.project.workspaces.map((e) => {
            var t, r
            let A = this.opts.project.configuration.get('nmHoistingLimits',
            )
            try {
                A = N.validateEnum(
                    w,
                    null !==
                    (r =
                    null !== (t = e.manifest.installConfig) ||
                    void 0 === t
                    ? void 0
                    : t.hoistingLimits) & (await M.xfs.unlinkPromise(e)),
                    ? r
                    : A,
                )
            catch (t) {
                const r = i.prettyWorkspace(
                    this.opts.project.configuration,
                    e,
                )
                this.opts.report.reportWarning(}
S.b.INVALID_MANIFEST,
`$r`: Invalid `installConfig.hoistingLimits` value. Expected one of `$Object.values(w)
), join(', '), using default: "${A}"`,
)
return [e.relativeCwd, A]
}),
A = ((e) => {
const t = new Map()
for (const [r, A] of e.entries())
if (!A.dirList) {
  let e = t.get(A.locator)
e ||
  (e = {
    target: A.target,
    linkType: A.linkType,
    locations: [],
    aliases: A.aliases,
  }),
t.set(A.locator, e)),
e.locations.push(r)
}
for (const e of t.values())
e.locations = e.locations.sort((e, t) => {
const r = e.split(o.y1.delimiter).length,
  A = t.split(o.y1.delimiter).length
return r !== A ? A - r : t.localeCompare(e)
})
return t
})
Q(
{ VERSIONS: { std: 1 },
topLevel: { name: null, reference: null },
getLocator: (e, t) =>
  Array.isArray(t)
    ? { name: t[0], reference: t[1] }
    : { name: e, reference: t }
,
getDependencyTreeRoots: () =>
  this.opts.project.workspaces.map((e) => {
const t = e.anchoredLocator
return {
  name: i.stringifyIdent(e.locator),
  reference: t.reference,
  })
);
getPackageInformation: (e) => {
    const t = null === e.reference
        ? this.opts.project.topLevelWorkspace.anchoredLocator
        : i.makeLocator(i.parseIdent(e.name), e.reference),
    r = this.localStore.get(t.locatorHash)
    if (void 0 === r)
        throw new Error('Assertion failed: Expected the package reference to have been registered',
    )
    return r.pnpNode
},
findPackageLocator: (e) => {
    const t = this.opts.project.tryWorkspaceByCwd(o.cS.toPortablePath(e),
    )
    if (null !== t) {
        const e = t.anchoredLocator
        return {
            name: i.stringifyIdent(e),
            reference: e.reference,
        }
    }
    throw new Error('Assertion failed: Unimplemented')
},
resolveToUnqualified: () => {
    throw new Error('Assertion failed: Unimplemented')
},
resolveUnqualified: () => {
    throw new Error('Assertion failed: Unimplemented')
},
resolveRequest: () => {
    throw new Error('Assertion failed: Unimplemented')
},
resolveVirtual: (e) =>
    o.cS.fromPortablePath(R.p.resolveVirtual(o.cS.toPortablePath(e)),
    ),
},
{ pnpifyFs: !1,
  hoistingLimitsByCwd: r,
  project: this.opts.project,
},
)

await (async function (}
for (const i of n) {
  if ('!(r && r.innerLoop) || '.bin' != i.name))
    continue
  const n = o.y1.join(e, i.name),
    s = o.y1.join(t, i.name)
  i.isDirectory()
    ? (i.name !== H || (r && r.innerLoop)) &&
      (await M.xfs.mkdirPromise(s, { recursive: !0 }),
        await A(n, s, { innerLoop: !0 }))
    : await M.xfs.copyFilePromise(n, s,
      G().constants.COPYFILE_FICLONE,
    )
} catch (A) {
  throw ((r && r.innerLoop) ||
    (A.message = `While cloning ${e} -> ${t} ${A.message}`),
    A)
} finally {
  (r && r.innerLoop) || I.tick()
}
await A(e, t, r)
})().then(() => u.splice(u.indexOf(A), 1))
  u.push(A), u.length > 4 && (await Promise.race(u))
}.
d = async (e, t, r) => {
  if (r)
    for (const [A, n] of t.children) {
      const t = r.children.get(A)
      await d(o.y1.join(e, A), n, t)
    }
  else
    t.children.has(H) &&
      (await z(o.y1.join(e, H), { contentsOnly: !1 })),
    await z(e, { contentsOnly: e === a }))
} for (const [e, t] of c) {
  const r = l.get(e)
  const r = l.get(e)
    for (const [A, n] of t.children) {
      if ('.' !== A) continue
      const t = r ? r.children.get(A) : r
      await d(o.y1.join(e, A), n, t)
    }
const C = async (e, t, r) => {
  if (r) {
    $(t.locator, r.locator) ||
    (await z(e, { contentsOnly: t.linkType === k.Un.HARD }));
  for (const [A, n] of t.children) {
    const t = r.children.get(A)
    await C(o.y1.join(e, A), n, t)
  }
} else
  t.children.has(H) &&
  (await z(o.y1.join(e, H), { contentsOnly: !0 })),
  await z(e, { contentsOnly: t.linkType === k.Un.HARD }));
}

for (const [e, t] of l) {
  const r = c.get(e)
  for (const [A, n] of t.children) {
    if ('.' === A) continue
    const t = r ? r.children.get(A) : r
    await C(o.y1.join(e, A), n, t)
  }
  }
const f = []

for (const [r, { locations: n }] of e.locatorMap.entries())
for (const e of n) {
  const { locationRoot: n, segments: i } = W(e, {
    skipPrefix: A.cwd,
  });
  let s = l.get(n),
  a = n
  if (s) {
    for (const e of i)
      if (((a = o.y1.join(a, e)), (s = s.children.get(e)), !s))
        break
    if (s &
    (await z(o.y1.join(e, H), { contentsOnly: !0 })),
      await z(e, { contentsOnly: t.linkType === k.Un.HARD }));
  }
}

for (const [e, { locations: r }] of t.entries())
for (const n of r) {
  const { locationRoot: r, segments: i } = W(n, {
    skipPrefix: A.cwd,
  });
let s = c.get(r),
    a = l.get(r),
    g = r
const u = t.get(e),
    h = u.target,
    p = n
if (h === p) continue
const d = u.linkType
for (const e of i) a = a.children.get(e)
if (s) {
    for (const e of i)
        if (
            ((g = o.y1.join(g, e)), (s = s.children.get(e)), !s)
        ) {
            f.push({ srcDir: h, dstDir: p, linkType: d })
            break
        }
} else f.push({ srcDir: h, dstDir: p, linkType: d })
}
const I = K.yG.progressViaCounter(f.length),
E = n.reportProgress(I)
try {
    const e = new Map()
    for (const t of f)
        (t.linkType !== k.Un.SOFT && e.has(t.srcDir)) ||
        (e.set(t.srcDir, t.dstDir), await h({ ...t }))
    await Promise.all(u), (u.length = 0)
    for (const t of f) {
        const r = e.get(t.srcDir)
        t.linkType !== k.Un.SOFT &&
        t.dstDir !== r &&
        (await p(r, t.dstDir))
    }
    await Promise.all(u),
    await M.xfs.mkdirPromise(a, { recursive: !0 })
    const r = await (async function (e, t, r, { loadManifest: A }) {
        const n = new Map()
        for (const [t, { locations: r }] of e) {
            const e = Z(t) ? null : await A(t, r[0]),
                i = new Map()
            if (e)
                for (const [t, A] of e.bin) {
                    const e = o.y1.join(r[0], A)
                    "" !== A && M.xfs.existsSync(e) && i.set(t, A)
                }
            n.set(t, i)
        }
        const i = new Map(),
    })
s = (e, t, A) => {
    const a = new Map(),
    c = o.y1.contains(r, e)
    if (A.locator && null !== c) {
        const t = n.get(A.locator)
        for (const [r, A] of t) {
            const t = o.y1.join(e, o.cS.toPortablePath(A))
            a.set((0, o.Zu)(r), t)
        }
        for (const [t, r] of A.children) {
            const A = o.y1.join(e, t),
            n = s(A, A, r)
            n.size > 0 &&
            i.set(
                e,
                new Map([...(i.get(e) || new Map()), ...n])
            )
        }
    } else
    for (const [r, n] of A.children) {
        const A = s(o.y1.join(e, r), t, n)
        for (const [e, t] of A) a.set(e, t)
    }
    return a
}
for (const [e, r] of t) {
    const t = s(e, e, r)
    t.size > 0 &&
    i.set(e, new Map([...(i.get(e) || new Map()), ...t]))
}
return i
})(t, l, A.cwd, { loadManifest: s })
await (async function (e, t) {
    for (const r of e.keys())
        if (!t.has(r)) {
            const e = o.y1.join(r, H, '.bin')
            await M.xfs.removePromise(e)
        }
    for (const [r, A] of t) {
        const t = o.y1.join(r, H, '.bin'),
        n = e.get(r) || new Map()
        await M.xfs.mkdirPromise(t, { recursive: !0 })
        for (const e of n.keys())
            A.has(e) ||
            (await M.xfs.removePromise(o.y1.join(t, e)),
            'win32' === process.platform &&
            (await M.xfs.removePromise( o.y1.join(t, (0, o.Zu)(e + '.cmd'))),
            )
            )
    }
    return (e, t, A) => {
        const a = new Map(),
        c = o.y1.contains(r, e)
        if (A.locator && null !== c) {
            const t = n.get(A.locator)
            for (const [r, A] of t) {
                const t = o.y1.join(e, o.cS.toPortablePath(A))
                a.set((0, o.Zu)(r), t)
            }
            for (const [t, r] of A.children) {
                const A = o.y1.join(e, t),
                n = s(A, A, r)
                n.size > 0 &&
                i.set(
                    e,
                    new Map([...(i.get(e) || new Map()), ...n])
                )
            }
        } else
        for (const [r, n] of A.children) {
            const A = s(o.y1.join(e, r), t, n)
            for (const [e, t] of A) a.set(e, t)
        }
        return a
})

for (const [e, r] of A) {
    const A = n.get(e),
    i = o.y1.join(t, e)
    A !== r &&
    ('win32' === process.platform
     ? await T()(
         o.cS.fromPortablePath(r),
         o.cS.fromPortablePath(i),
         { createPwshFile: !1 },
     )
     : (await M.xfs.removePromise(i),
         await V(r, i),
         await M.xfs.chmodPromise(r, 493)))
})
})(g, r),

await (async function (e, t, r) {
    let A = ''
    :(A +=
      '# Warning: This file is automatically generated. Removing it is fine, but will\n'),
    (A +=
      '# cause your node_modules installation to become invalidated.\n'),
    (A += `\n`),
    (A += '__metadata:\n'),
    (A += '  version: 1
')
    const n = Array.from(t.keys()).sort(),
    s = i.stringifyLocator(
        e.topLevelWorkspace.anchoredLocator,
    )
    for (const i of n) {
        const n = t.get(i)
        :(A += `\n`),
        (A += JSON.stringify(i) + `\n`),
        (A += ` locations:\n`)
        for (const t of n.locations) {
            const r = o.y1.contains(e.cwd, t)
            if (null === r)
                throw new Error(`Assertion failed: Expected the path to be within the project (${t})`),
        }
    }
    A += `\n`;(A += `\n`),
    (A += JSON.stringify(r) + `\n`)
    }
    if (n.aliases.length > 0) {
        A += ` aliases:\n` for (const e of n.aliases)
        A += ` - ${JSON.stringify(e)}\n`
```javascript
if (i === s && r.size > 0) {
    A += '  bin:
    for (const [t, n] of r) {
        const r = o.y1.contains(e.cwd, t)
        if (null === r)
            throw new Error('Assertion failed: Expected the path to be within the project (${t})',
                                A += `  ${JSON.stringify(r)}:
    for (const [e, r] of n) {
        const n = o.y1.relative(o.y1.join(t, H), r)
        A += `    ${JSON.stringify(e)}: ${JSON.stringify(n, )}
    }
    
    const a = e.cwd,
    c = o.y1.join(a, H, '.yarn-state.yml')
    await M.xfs.changeFilePromise(c, A, {
        automaticNewlines: !0,
    })(A, t, r)
} finally {
    E.stop()
}(t, A, {
    baseFs: e,
    project: this.opts.project,
    report: this.opts.report,
    loadManifest: async (e) => {
        const t = i.parseLocator(e),
        r = this.localStore.get(t.locatorHash)
        if (void 0 === r)
            throw new Error('Assertion failed: Expected the slot to exist',
                                return r.customPackageData.manifest
    },
}(t, A, [
    for (const [e, t] of A.entries()) {
        if (Z(e)) continue
        const r = i.parseLocator(e),
        A = this.localStore.get(r.locatorHash)
        if (void 0 === A)
            throw new Error('Assertion failed: Expected the slot to exist')
```
const o = O.jsInstallUtils.extractBuildScripts(
    A.pkg,
    A.customPackageData,
    A.dependencyMeta,
    {
        configuration: this.opts.project.configuration,
        report: this.opts.report,
    },
)

0 !== o.length &&
n.push(
    {
        buildLocations: t.locations,
        locatorHash: r.locatorHash,
        buildDirective: o,
    }
)

return { customData: this.customData, records: n }
}
}

async function q(e, { unrollAliases: t = !1 } = {}) {
    const r = e.cwd,
        A = o.y1.join(r, H, '.yarn-state.yml')
    if (!M.xfs.existsSync(A)) return null
    const n = (0, P.parseSyml)(await M.xfs.readFilePromise(A, 'utf8'))
    if (n.__metadata.version > 1) return null
    const s = new Map(),
        a = new Map()
    delete n.__metadata
    for (const [e, A] of Object.entries(n)) {
        const n = A.locations.map((e) => o.y1.join(r, e)),
            c = A.bin
        if (c)
            for (const [e, t] of Object.entries(c)) {
                const A = o.y1.join(r, o.cS.toPortablePath(e)),
                    n = N.getMapWithDefault(a, A)
                for (const [e, r] of Object.entries(t))
                    n.set(
                        (0, o.Zu)(e),
                        o.cS.toPortablePath([A, H, r].join(o.y1.delimiter)),
                    )
            }
        if (s.set(e, {
            target: o.LZ.dot,
            linkType: k.Un.HARD,
            locations: n,
            aliases: A.aliases || [],
        }),
            q(e, { unrollAliases: t },)
        )
    }

    return { customData: this.customData, records: n }
}

async function q(e, { unrollAliases: t = !1 } = {}) {
    const r = e.cwd,
        A = o.y1.join(r, H, '.yarn-state.yml')
    if (!M.xfs.existsSync(A)) return null
    const n = (0, P.parseSyml)(await M.xfs.readFilePromise(A, 'utf8'))
    if (n.__metadata.version > 1) return null
    const s = new Map(),
        a = new Map()
    delete n.__metadata
    for (const [e, A] of Object.entries(n)) {
        const n = A.locations.map((e) => o.y1.join(r, e)),
            c = A.bin
        if (c)
            for (const [e, t] of Object.entries(c)) {
                const A = o.y1.join(r, o.cS.toPortablePath(e)),
                    n = N.getMapWithDefault(a, A)
                for (const [e, r] of Object.entries(t))
                    n.set(
                        (0, o.Zu)(e),
                        o.cS.toPortablePath([A, H, r].join(o.y1.delimiter)),
                    )
            }
        if (s.set(e, {
            target: o.LZ.dot,
            linkType: k.Un.HARD,
            locations: n,
            aliases: A.aliases || [],
        }),
            q(e, { unrollAliases: t },)
        )
    }

    return { customData: this.customData, records: n }
}

async function q(e, { unrollAliases: t = !1 } = {}) {
    const r = e.cwd,
        A = o.y1.join(r, H, '.yarn-state.yml')
    if (!M.xfs.existsSync(A)) return null
    const n = (0, P.parseSyml)(await M.xfs.readFilePromise(A, 'utf8'))
    if (n.__metadata.version > 1) return null
    const s = new Map(),
        a = new Map()
    delete n.__metadata
    for (const [e, A] of Object.entries(n)) {
        const n = A.locations.map((e) => o.y1.join(r, e)),
            c = A.bin
        if (c)
            for (const [e, t] of Object.entries(c)) {
                const A = o.y1.join(r, o.cS.toPortablePath(e)),
                    n = N.getMapWithDefault(a, A)
                for (const [e, r] of Object.entries(t))
                    n.set(
                        (0, o.Zu)(e),
                        o.cS.toPortablePath([A, H, r].join(o.y1.delimiter)),
                    )
            }
        if (s.set(e, {
            target: o.LZ.dot,
            linkType: k.Un.HARD,
            locations: n,
            aliases: A.aliases || [],
        }),
            q(e, { unrollAliases: t },)
        )
    }

    return { customData: this.customData, records: n }
}
```javascript
for (const t of A.aliases) {
    const { scope: r, name: A } = i.parseLocator(e),
    a = i.makeLocator(i.makeIdent(r, A), t),
    c = i.stringifyLocator(a)
    s.set(c, {
        target: o.LZ.dot,
        linkType: k.Un.HARD,
        locations: n,
        aliases: [],
    })
}
return {
    locatorMap: s,
    binSymlinks: a,
    locationTree: X(s, { skipPrefix: e.cwd })),
}

const z = async (e, t) => {
    if (e.split(o.y1.sep).indexOf(H) < 0)
        throw new Error(
            "Assertion failed: trying to remove dir that doesn't contain node_modules: " +
            e,
        )
    try {
        if (!t.innerLoop) {
            if ((await M.xfs.lstatPromise(e)).isSymbolicLink())
                return void (await M.xfs.unlinkPromise(e))
        }
        const r = await M.xfs.readdirPromise(e, { withFileTypes: !0 })
        for (const A of r) {
            const r = o.y1.join(e, (0, o.Zu)(A.name))
            A.isDirectory()
                ? (A.name !== H || (t && t.innerLoop)) &&
                    (await z(r, { innerLoop: !0, contentsOnly: !1 })))
                    : await M.xfs.unlinkPromise(r)
    t.contentsOnly || (await M.xfs.rmdirPromise(e))
    }
    catch (e) {
        if ('ENOENT' !== e.code && 'ENOTEMPTY' !== e.code) throw e
    }
}
```

`Assertion failed: Cannot process a path that isn't part of the requested prefix ($\{e\} isn't within $\{t\})`.

```javascript
const A = r.split(o.y1.sep).filter((e) => !e);
n = A.indexOf(H);
i = A.slice(0, n).join(o.y1.sep)
return { locationRoot: o.y1.join(t, i), segments: A.slice(n) }
},
X = (e, { skipPrefix: t }) => {
    const r = new Map()
    if (null === e) return r
    const A = () => ({ children: new Map(), linkType: k.Un.HARD })
    for (const [n, i] of e.entries()) {
        if (i.linkType === k.Un.SOFT) {
            if (null !== o.y1.contains(t, i.target)) {
                const e = N.getFactoryWithDefault(r, i.target, A)
                ;(e.locator = n), (e.linkType = i.linkType)
            }
        }
        for (const e of i.locations) {
            const { locationRoot: o, segments: s } = W(e, { skipPrefix: t })
            let a = N.getFactoryWithDefault(r, o, A)
            for (let e = 0; e < s.length; ++e) {
                const t = s[e]
                if (t !== t) {
                    const e = N.getFactoryWithDefault(a.children, t, A)
                    a.children.set(t, e), (a = e)
                }
            }
            e === s.length - 1 &&
            ((a.locator = n), (a.linkType = i.linkType))
        }
    }
    return r
},
V = async (e, t) => {
    let r
    try {
        'win32' === process.platform && (r = M.xfs.lstatSync(e))
    } catch (e) { }
    'win32' !== process.platform || (r && !r.isDirectory())
    ? M.xfs.symlinkPromise(o.y1.relative(o.y1.dirname(t), e), t)
    : M.xfs.symlinkPromise(e, t, 'junction')
},
_ = async (e, t, { baseFs: r, innerLoop: A }) => {
    await M.xfs.mkdirPromise(e, { recursive: !0 })
    const n = await r.readdirPromise(t, { withFileTypes: !0 }),
i = async (e, t, A) => {
        if (A.isFile()) {
            return e
        }
```

```javascript
const A = await r.lstatPromise(t)
await r.copyFilePromise(t, e)
const n = 511 & A.mode
420 !== n && (await M.xfs.chmodPromise(e, n))
} else {
if (!A.isSymbolicLink())
throw new Error(
  `Unsupported file type (file: ${t}, mode: 0o${await M.xfs
    .statSync(t)
    .mode.toString(8)
    .padStart(6, '0'))})`
)
}

for (const s of n) {
const n = o.y1.join(t, (0, o.Zu)(s.name)),
a = o.y1.join(e, (0, o.Zu)(s.name))
s.isDirectory()
? (s.name !== H || A) &&
  (await _(a, n, { baseFs: r, innerLoop: !0 })))
: await i(a, n, s)
}
}

function Z(e) {
let t = i.parseDescriptor(e)
return (
  i.isVirtualDescriptor(t) && (t = i.devirtualizeDescriptor(t)),
  t.range.startsWith('link:')
)
}

const $ = (e, t) => {
if (!e || !t) return e === t
let r = i.parseLocator(e)
i.isVirtualLocator(r) && (r = i.devirtualizeLocator(r))
let A = i.parseLocator(t)
return (
  i.isVirtualLocator(A) && (A = i.devirtualizeLocator(A)),
  i.areLocatorsEqual(r, A)
)
}

var ee = r(34432)
class te extends O.PnpLinker {
constructor() {
  super(...arguments), (this.mode = 'loose')
}
```
makeInstaller(e) {
    return new re(e)
}

class re extends O.PnpInstaller {
    constructor() {
        super(...arguments), (this.mode = 'loose')
    }
    async finalizeInstallWithPnp(e) {
        if (this.opts.project.configuration.get('pnpMode') !== this.mode)
            return
        const t = new R.p(
            baseFs: new x.A({
                libzip: await (0, L.getLibzipPromise)(),
                maxOpenFiles: 80,
                readOnlyArchives: !0,
            }),
            r = (0, ee.oC)(e, this.opts.project.cwd, t),
            A = Q(r, { pnpifyFs: !1, project: this.opts.project }),
            n = new Map()
        e.fallbackPool = n
        const s = (e, t) => {
            const r = i.parseLocator(t.locator),
                A = i.stringifyIdent(r)
            A === e ? n.set(e, r.reference) : n.set(e, [A, r.reference])
        },
        a = o.y1.join(this.opts.project.cwd, o.QS.nodeModules),
        c = A.get(a)
        if (void 0 === c)
            throw new Error(
                'Assertion failed: Expected a root junction point',
            )
        if ('target' in c)
            throw new Error(
                'Assertion failed: Expected the root junction point to be a directory',
            )
        for (const e of c.dirList) {
            const t = o.y1.join(a, e),
                r = A.get(t)
            if (void 0 === r)
                throw new Error(
                    'Assertion failed: Expected the child to have been registered',
                )
            if ('target' in r) s(e, r)
            else
                for (const n of r.dirList) {
const r = o.y1.join(t, n),
i = A.get(r)
if (void 0 === i)
    throw new Error(
        'Assertion failed: Expected the subchild to have been registered',
    )
if (!('target' in i))
    throw new Error(
        'Assertion failed: Expected the leaf junction to be a package',
    )
s(`${e}/${n}`, i)
}
return super.finalizeInstallWithPnp(e)
}
}
const Ae = (e) => o.y1.join(e.cwd, '.pnp.js'),
ne = {
    configuration: {
        nmHoistingLimits: {
            description: 
                'Prevent packages can be hoisted past specific levels',
            type: n.a2.STRING,
            values: [w.WORKSPACES, w.DEPENDENCIES, w.NONE],
            default: 'none',
        },
    },
    linkers: [
        class {
            supportsPackage(e, t) {
                return ( 
                    'node-modules' === t.project.configuration.get('nodeLinker')
                )
            }
        }
    ]
}
async findPackageLocation(e, t) {
    const r = t.project.tryWorkspaceByLocator(e)
    if (r) return r.cwd
    const A = await q(t.project, { unrollAliases: !0 })
    if (null === A)
        throw new j.UsageError(
            "Couldn't find the node_modules state file - running an install might help (findPackageLocation)",
        )
    const n = A.locatorMap.get(i.stringifyLocator(e))
    if (!n) {
        throw new j.UsageError(
            `Couldn't find ${i.prettyLocator(
                t.project.configuration,
                e,
            )}`,
        )
    }
}


```javascript
async findPackageLocator(e, t) {
    const r = await q(t.project, { unrollAliases: !0 })
    if (null === r) return null
    const { locationRoot: A, segments: n } = W(o.y1.resolve(e), {
        skipPrefix: t.project.cwd,
    })
    let s = r.locationTree.get(A)
    if (!s) return null
    let a = s.locator
    for (const e of n) {
        if (((s = s.children.get(e)), !s)) break
        a = s.locator || a
    }
    return i.parseLocator(a)
}

makeInstaller(e) {
    return new J(e)
}
```

8190: (e, t, r) => {
'use strict'
r.r(t), r.d(t, { default: () => V })
var A,
    n,
o = r(39922),
i = r(36370),
s = r(25413),
a = r(85824),
c = r(62152),
g = r(35691),
l = r(92659),
u = r(85875),
h = r(15815),
p = r(14224),
d = r(40822)
!(function (e) {
    !(e.All = 'all'),
    (e.Production = 'production'),
})
```
(e.Development = 'development')
})((A || (A = {}))
)

(function (e) {
    (e.Info = 'info'),
    (e.Low = 'low'),
    (e.Moderate = 'moderate'),
    (e.High = 'high'),
    (e.Critical = 'critical')
})((n || (n = {}))

var C = r(54143),
    f = r(73632),
    I = r(71643)


function B(e, t) {
    const r = [],
    A = new Set(),
    n = (e) => {
        A.has(e) || (A.add(e), r.push(e))
    }
    for (const e of t) n(e)
    const o = new Set()
    for (; r.length > 0; ) {
        const t = r.shift(),
        A = e.storedResolutions.get(t)
        if (void 0 === A)
            throw new Error('Assertion failed: Expected the resolution to have been registered',
        )
        const i = e.storedPackages.get(A)
        if (i) {
            o.add(t)
            for (const e of i.dependencies.values()) n(e.descriptorHash)
        }
    }
    return o
}

function y(e, t, { all: r }) {
    const A = r ? e.workspaces : [t],
        n = A.map((e) => e.manifest),
        o = new Set()
        n.map((e) => [...e.dependencies].map(([, t]) => e)).flat(),
    ),
    i = new Set()
    n.map((e) => [...e.devDependencies].map(([, t]) => e)).flat(),
    ),
    s = A.map((e) => [...e.dependencies.values()]).flat(),
    a = s
    .filter((e) => o.has(e.identHash))
function m(e) {
    const t = {};
    for (const r of e) {
        t[C.stringifyIdent(r)] = C.parseRange(r.range).selector;
    }
    return t;
}

function w(e) {
    if (void 0 === e) return new Set();
    const t = E.indexOf(e),
    r = E.slice(t);
    return new Set(r);
}

function Q(e, t) {
    var r;
    const A = (function (e, t) {
        const r = w(t),
        A = {};
        for (const t of r) A[t] = e[t];
        return A;
    })(e, t);
    for (const e of Object.keys(A)) {
        if (null !== (r = A[e]) && void 0 !== r && r) return !0;
    }
    return !1;
}

class D extends s.BaseCommand {

    constructor() {
        super(...arguments),
        (this.all = !1),
        (this.recursive = !1),
        (this.environment = A.All),
        (this.json = !1),
        (this.severity = n.Info);
    }

    async execute() {
        const e = await o.VK.find(this.context.cwd, this.context.plugins),
        { project: t, workspace: r } = await a.l.find(e, this.context.cwd);
        if (!t) throw new s.WorkspaceRequiredError(t.cwd, this.context.cwd);
        await t.restoreInstallState();
        const n = (function (e, t, { all: r, environment: n }) {
            return [...t].map((e) => e.descriptorHash),
        c = s
        .filter((e) => i.has(e.identHash))
        .map((e) => e.descriptorHash),
        g = B(e, a),
        l = B(e, c)
        return (u = l), (h = g), new Set([...u].filter((e) => !h.has(e)))
    var u, h
    }
}
const o = r ? e.workspaces : [t],
i = []
if ([A.All, A.Production].includes(n))
  for (const e of o)
    for (const t of e.manifest.dependencies.values()) i.push(t)
const s = []
if ([A.All, A.Development].includes(n))
  for (const e of o)
    for (const t of e.manifest.devDependencies.values())
      s.push(t)
return m(
  [...i, ...s].filter(
    (e) => null !== C.parseRange(e.range).protocol,
  ),
)
))(t, r, { all: this.all, environment: this.environment }),
i = (function (e, t, { all: r }) {
  var A
  const n = y(e, t, { all: r }),
  o = {}
  for (const t of e.storedPackages.values())
    o[C.stringifyIdent(t)] = {
      version: null !== (A = t.version) && void 0 !== A ? A : '0.0.0',
      integrity: t.identHash,
      requires: m(t.dependencies.values()),
      dev: n.has(C.convertLocatorToDescriptor(t).descriptorHash),
    }
  return o
})(t, r, { all: this.all })
if (!this.recursive)
  for (const e of Object.keys(i))
    Object.prototype.hasOwnProperty.call(n, e)
      ? (i[e].requires = {})
        : delete i[e]
const d = { requires: n, dependencies: i },
E = p/npmConfigUtils.getPublishRegistry(r.manifest, {
  configuration: e,
})
let B
const D = await c.h.start(
  { configuration: e, stdout: this.context.stdout },
async () => {
  try {
      d,
    )
authType: p.npmHttpUtils.AuthType.NO_AUTH,
configuration: e,
jsonResponse: !0,
registry: E,
}
)
)
} catch (e) {
throw 'HTTPError' !== e.name
? e
: new g.gl(l.b.EXCEPTION, e.toString())
}
}
)
)
if (D.hasErrors()) return D.exitCode()
const b = Q(B.metadata.vulnerabilities, this.severity)
if (!this.json && b)
return (u.emitTree(
(function (e, t) {
const r = [
,
A = [
children: r ]
let n = Object.values(e.advisories)
if (null != t) {
const e = w(t)
n = n.filter((t) => e.has(t.severity))
}
for (const e of f.sortMap(n, (e) => e.module_name))
r[e.module_name] = {
label: e.module_name,
value: I.tuple(1.Type.RANGE,
e.findings.map((e) => e.version).join(', '),
),
children: {
Issue: {
label: 'Issue',
value: I.tuple(1.Type.NO_HINT, e.title),
},
URL: {
label: 'URL',
value: I.tuple(1.Type.URL, e.url),
},
Severity: {
label: 'Severity',
value: I.tuple(1.Type.NO_HINT, e.severity),
},
'Vulnerable Versions': {
label: 'Vulnerable Versions',
}
value: I.tuple(I.Type.RANGE, e.vulnerable_versions),
},
'Patched Versions': {
    label: 'Patched Versions',
    value: I.tuple(I.Type.RANGE, e.patched_versions),
},
Via: {
    label: 'Via',
    value: I.tuple(I.Type.NO_HINT,
        Array.from(new Set(e.findings.map((e) => e.paths)
            .flat() 
            .map((e) => e.split('>')[0]),
        ).join(', ')),
    ),
},
Recommendation: {
    label: 'Recommendation',
    value: I.tuple(I.Type.NO_HINT,
        e.recommendation.replace(/\n/g, ' '),
    ),
},
}
return A
})(B, this.severity),
{
    configuration: e,
    json: this.json,
    stdout: this.context.stdout,
    separators: 2,
},
}),
1
)
return (await h.Pk.start(
{
    configuration: e,
    includeFooter: !1,
    json: this.json,
    stdout: this.context.stdout,
},)
async (e) => {
  e.reportJson(B),
  b || e.reportInfo(l.b.EXCEPTION, 'No audit suggestions')
},
);
).exitCode()
}
);

:D.usage = d.Command.Usage(
  'perform a vulnerability audit against the installed packages',
  description:
    'This command checks for known security reports on the packages you use. The reports are by default extracted from the npm registry, and may or may not be relevant to your actual program (not all vulnerabilities affect all code paths).
    For consistency with our other commands the default is to only check the direct dependencies for the active workspace. To extend this search to all workspaces, use \`-A,--all\`. To extend this search to both direct and transitive dependencies, use \`-R,--recursive\`. Applying the \`--severity\` flag will limit the audit table to vulnerabilities of the corresponding severity and above. Valid values are \`${E.map(e => `\`${e}\``, (e) => `
  }).join( ` `, )

  If the \`--json\` flag is set, Yarn will print the output exactly as received from the registry. Regardless of this flag, the process will exit with a non-zero exit code if a report is found for the selected packages.
    To understand the dependency tree requiring vulnerable packages, check the raw report with the \`-json\` flag or use \`yarn why <package>\` to get more information as to who depends on them.

  examples:
    ['Checks for known security issues with the installed packages. The output is a list of known issues.',
     'yarn npm audit',
     ],
    ['Audit dependencies in all workspaces', 'yarn npm audit --all'],
    ['Limit auditing to `dependencies` (excludes `devDependencies`)',
     'yarn npm audit --environment production',
     ],
    ['Show audit report as valid JSON', 'yarn npm audit --json'],
    ['Audit all direct and transitive dependencies',
     'yarn npm audit --recursive',
     ],
    ['Output moderate (or more severe) vulnerabilities',
     'yarn npm audit --severity moderate',
     ],
    ],
));
(0, i.gn)(
  [d.Command.Boolean('-A,--all')],
  D.prototype,
var b = r(85622),
v = r.n(b),
S = r(53887),
k = r.n(S),
N = r(31669)
class F extends s.BaseCommand {
    constructor() {
        super(...arguments), (this.json = !1)
    }
    async execute() {
        const e = await o.VK.find(this.context.cwd, this.context.plugins),
            { project: t } = await a.I.find(e, this.context.cwd),
            r =
                void 0 !== this.fields
                ? new Set([`name`, ...this.fields.split(/\s*,\s*/)])
                : null,
            A = []
        let n = !1
        const i = await h.Pk.start(}
configuration: e,
includeFooter: !1,
json: this.json,
stdout: this.context.stdout,
}
async (o) => {
for (const i of this.packages) {
let s
if (',' === i) {
const e = t.topLevelWorkspace
if (!e.manifest.name)
throw new d.UsageError(
"Missing 'name' field in " +
  v().join(e.cwd, 'package.json'),
)
s = C.makeDescriptor(e.manifest.name, 'unknown')
} else s = C.parseDescriptor(i)
const a = p.npmHttpUtils.getIdentUrl(s)
let c
try {
c = K(
  await p.npmHttpUtils.get(a, {
    configuration: e,
    ident: s,
    jsonResponse: !0,
  }),
)
) catch (e) {
throw 'HTTPError' !== e.name
  ? e
    : 404 === e.response.statusCode
  ? new g.lk(l.b.EXCEPTION, 'Package not found')
    : new g.lk(l.b.EXCEPTION, e.toString())
}
const u = Object.keys(c.versions).sort(k().compareLoose)
let h = c['dist-tags'].latest || u[u.length - 1]
if (k().validRange(s.range)) {
const t = k().maxSatisfying(u, s.range)
null !== t
  ? (h = t)
    : (o.reportWarning(    l.b.UNNAMED,
      'Unmet range $\{C.prettyRange( e,
        s.range,
    )\}$; falling back to the latest version',
  ),
(n = !0))
`unknown' !== s.range &&
    (o.reportWarning(  
        l.b.UNNAMED,  
        `Invalid range ${C.prettyRange(  
            e,  
            s.range,  
        )}; falling back to the latest version`,  
    ),  
    (n = !0))
const f = c.versions[h],
I = { ...c, ...f, version: h, versions: u }
let E
if (null !== r) {
    E = {}  
    for (const t of r) {
        const r = I[t]  
        void 0 !== r  
        ? (E[t] = r)  
        : (o.reportWarning(  
            l.b.EXCEPTION,  
            `The '${t}' field doesn't exist inside ${C.prettyIdent(  
                e,  
                s,  
            )}'s informations`,  
        ),  
        (n = !0))
    }
} else
    this.json ||
        (delete I.dist, delete I.readme, delete I.users),
    (E = I)
    o.reportJson(E), this.json || A.push(E)
}
)
)
N.inspect.styles.name = 'cyan'
for (const e of A)
    (e !== A[0] || n) && this.context.stdout.write('
'),
    this.context.stdout.write(  
        (0, N.inspect(e, { depth: 1 / 0, colors: !0, compact: !1 }) +  
        '
',  
    )
    return i.exitCode()
}
)
function K(e) {
    if (Array.isArray(e)) {
const t = []
for (let r of e) (r = K(r)), r && t.push(r)
return t
}
if ('object' == typeof e && null !== e) {
const t = {}
for (const r of Object.keys(e)) {
if (r.startsWith('_')) continue
const A = K(e[r])
A && (t[r] = A)
}
return t
}
return e || null
};(F.usage = d.Command.Usage(
  category: 'Npm-related commands',
  description: 'show information about a package',
  details: 'This command will fetch information about a package from the npm registry, and prints it in a tree format. The package does not have to be installed locally, but needs to have been published (in particular, local changes will be ignored even for workspaces). Append `@<range>` to the package argument to provide information specific to the latest version that satisfies the range. If the range is invalid or if there is no version satisfying the range, the command will print a warning and fall back to the latest version. If the `-f,--fields` option is set, it's a comma-separated list of fields which will be used to only display part of the package informations. By default, this command won't return the `dist`, `readme`, and `users` fields, since they are often very long. To explicitly request those fields, explicitly list them with the `--fields` flag or request the output in JSON mode.
',
  examples: [ [ 'Show all available information about react (except the `dist`, `readme`, and `users` fields)', 'yarn npm info react', ], [ 'Show all available information about react as valid JSON (including the `dist`, `readme`, and `users` fields)', 'yarn npm info react --json', ], [ 'Show all available information about react 16.12.0', 'yarn npm info react@16.12.0', ], [ 'Show the description of react', 'yarn npm info react --fields description', ], [ 'Show all available versions of react', ] ]
)
'yarn npm info react --fields versions',
].
['Show the readme of react', 'yarn npm info react --fields readme'],
'Show a few fields of react',
'yarn npm info react --fields homepage.repository',
].
).
}
)(0, i.gn)([d.Command.Rest()], F.prototype, 'packages', void 0),
(0, i.gn)(
[ d.Command.String('-f,--fields', {
 description:
 'A comma-separated list of manifest fields that should be displayed',
 }),
].
F.prototype,
'fields',
void 0,
),
(0, i.gn)(
[ d.Command.Boolean('--json', {
 description: 'Format the output as an NDJSON stream',
 }),
].
F.prototype,
'json',
void 0,
),
(0, i.gn)(
[ d.Command.Path('npm', 'info')],
F.prototype,
'execute',
null,
)
var M = r(61899)
class R extends s.BaseCommand {
constructor() {
 super(...arguments), (this.publish = !1)
}
async execute() {
 const e = await o.VK.find(this.context.cwd, this.context.plugins),
 t = await x{
 configuration: e,
 cwd: this.context.cwd,
 publish: this.publish,
scope: this.scope,
})
return (await h.Pk.start(
{ configuration: e, stdout: this.context.stdout },
async (r) => {
const A = await (async function ({
    registry: e,
    report: t,
    stdin: r,
    stdout: A,
}) {
    if (process.env.TEST_ENV)
        return {
            name: process.env.TEST_NPM_USER || '',
            password: process.env.TEST_NPM_PASSWORD || '',
}
    t.reportInfo(l.b.UNNAMED, 'Logging in to ' + e)
    let n = !1
    e.match(/\^https://npm\.pkg\.github\.com\(\/$\)/) &&
    (t.reportInfo(
        l.b.UNNAMED,
        "You seem to be using the GitHub Package Registry. Tokens must be generated with the 'repo',
        'write:packages', and 'read:packages' permissions.",
    ),
    (n = !0))
    t.reportSeparator()
    const { username: o, password: i } = await (0, M.prompt)([
    {
        type: 'input',
        name: 'username',
        message: 'Username:',
        required: !0,
        onCancel: () => process.exit(130),
        stdin: r,
        stdout: A,
    },
    {
        type: 'password',
        name: 'password',
        message: n ? 'Token:' : 'Password:',
        required: !0,
        onCancel: () => process.exit(130),
        stdin: r,
        stdout: A,
    }]
)
    return t.reportSeparator(), { name: o, password: i }
async function x({ scope: e, publish: t, configuration: r, cwd: A }) {
    return e && t
        ? p.npmConfigUtils.getScopeRegistry(e, { configuration: r, type: p.npmConfigUtils.RegistryType.PUBLISH_REGISTRY, })
        : e
        ? p.npmConfigUtils.getScopeRegistry(e, { configuration: r })
        : t
        ? p.npmConfigUtils.getPublishRegistry((await (0, s.openWorkspace)(r, A)).manifest,
            )
    )
    
    n = 
        '/-/user/org.couchdb.user:' + encodeURIComponent(A.name),
    i = await p.npmHttpUtils.put(n, A, {
        attemptedAs: A.name,
        configuration: e,
        registry: t,
        jsonResponse: !0,
        authType: p.npmHttpUtils.AuthType.NO_AUTH,
    })
    return (await (async function (e, t, { configuration: r, scope: A }) {
        const n = (e) => (r) => {
            const A = f.isIndexableObject(r) ? r : {},
            n = A[e],
            o = f.isIndexableObject(n) ? n : {}
        return { ...A, [e]: { ...o, npmAuthToken: t } }
        },
        i = A ? { npmScopes: n(A) : { npmRegistries: n(e) }
        return await o.VK.updateHomeConfiguration(i)
    })(t, i.token, { configuration: e, scope: this.scope }),
    r.reportInfo(l.b.UNNAMED, 'Successfully logged in')
    ).exitCode()
: p/npmConfigUtils.getDefaultRegistry({ configuration: r })

: (R.usage = d.Command.Usage({
    category: 'Npm-related commands',
    description: 'store new login info to access the npm registry',
    details: ''
        This command will ask you for your username, password, and 2FA One-Time-Password (when it applies). It will then modify your local configuration (in your home folder, never in the project itself) to reference the new tokens thus generated.

        Adding the `--scope` flag will cause the authentication to be done against whatever registry is configured for the associated scope (see also `npmScopes`).

        Adding the `--publish` flag will cause the authentication to be done against the registry used when publishing the package (see also `publishConfig.registry` and `npmPublishRegistry`).
    ',
    examples: [
        ['Login to the default registry', 'yarn npm login'],
        ['Login to the registry linked to the @my-scope registry', 'yarn npm login --scope my-scope'],
        ['Login to the publish registry for the current package', 'yarn npm login --publish'],
    ],
}),

R.prototype,
'scope',
void 0,
).

R.prototype,
'publish',
void 0,
).

R.prototype,
'--publish',
void 0,
).

R.prototype,
```
[d.Command.Path('npm', 'login')],
R.prototype,
'execute',
null,
)
const L = new Set(['npmAuthIdent', 'npmAuthToken'])
class P extends s.BaseCommand {
constructor() {
  super(...arguments), (this.publish = !1), (this.all = !1)
}
async execute() {
  const e = await o.VK.find(this.context.cwd, this.context.plugins),
  t = async () => {
    var t
    const r = await x({
      configuration: e,
      cwd: this.context.cwd,
      publish: this.publish,
      scope: this.scope,
    }),
    A = await o.VK.find(this.context.cwd, this.context.plugins),
    n = C.makeIdent(
      null !== (t = this.scope) && void 0 !== t ? t : null,
      'pkg',
    ),
    return !p.npmConfigUtils
      .getAuthConfiguration(r, { configuration: A, ident: n })
      .get('npmAuthToken')
  }
  return (await h.Pk.start(
    { configuration: e, stdout: this.context.stdout },
    async (r) => {
      if (this.all &&
        (await (async function () {
          const e = (e) => {
            let t = !1
            const r = f.isIndexableObject(e) ? { ...e } : {}
            r.npmAuthToken && (delete r.npmAuthToken, (t = !0))
            for (const e of Object.keys(r)) O(r, e) && (t = !0)
            if (0 !== Object.keys(r).length) return t ? r : e
          })(),
        return await o.VK.updateHomeConfiguration({
          npmRegistries: e,
          npmScopes: e,
        })
      })(r),
    })(),
```

Open Source Used In Cisco Cloud Mailbox Defense -CMD (Project Raptor) April 2021 20181
r.reportInfo(
  1.b.UNNAMED,
  'Successfully logged out from everything',
),
this.scope)
)
return (
  await U('npmScopes', this.scope),
  void ((await t()))
? r.reportInfo(
    1.b.UNNAMED,
    'Successfully logged out from ' + this.scope,
  )
  : r.reportWarning(
    1.b.UNNAMED,
    'Scope authentication settings removed, but some other ones settings still apply to it',
  ))
)
const A = await x({
  configuration: e,
  cwd: this.context.cwd,
  publish: this.publish,
})
await U('npmRegistries', A),
(await t())
? r.reportInfo(
  1.b.UNNAMED,
  'Successfully logged out from ' + A,
)
  : r.reportWarning(
    1.b.UNNAMED,
    'Registry authentication settings removed, but some other ones settings still apply to it',
  )
),
).exitCode()
}

function O(e, t) {
  const r = e[t]
  if (!f.isIndexableObject(r)) return !1
  const A = new Set(Object.keys(r))
  if (([...L].every(e => !A.has(e)))) return !1
  for (const e of L) A.delete(e)
  if (0 === A.size) return (e[t] = void 0), !0
  const n = { ...r }
  for (const e of L) delete n[e]
  return (e[t] = n), !0
async function U(e, t) {
    return await o.VK.updateHomeConfiguration({
        [e]: (e) => {
            const r = f.isIndexableObject(e) ? e : {};
            if (!Object.prototype.hasOwnProperty.call(r, t)) return e;
            const A = r[t];
            n = f.isIndexableObject(A) ? A : {},
            o = new Set(Object.keys(n))
            if ([...L].every((e) => !o.has(e))) return e;
            for (const e of L) o.delete(e);
            if (0 === o.size) {
                if (1 === Object.keys(r).length) return
                return { ...r, [t]: void 0 }
            }
            const i = {};
            for (const e of L) i[e] = void 0
            return { ...r, [t]: { ...n, ...i } }
        },
    });
};
(P.usage = d.Command.Usage({
    category: 'Npm-related commands',
    description: 'logout of the npm registry',
    details: 'This command will log you out by modifying your local configuration (in your home folder, never in the project itself) to delete all credentials linked to a registry.

Adding the `-s,--scope` flag will cause the deletion to be done against whatever registry is configured for the associated scope (see also `npmScopes`).

Adding the `--publish` flag will cause the deletion to be done against the registry used when publishing the package (see also `publishConfig.registry` and `npmPublishRegistry`).

Adding the `-A,--all` flag will cause the deletion to be done against all registries and scopes.

Examples: [
    ['Logout of the default registry', 'yarn npm logout'],
    ['Logout of the @my-scope scope', 'yarn npm logout --scope my-scope'],
    ['Logout of the publish registry for the current package', 'yarn npm logout --publish'],
    ['Logout of all registries', 'yarn npm logout --all'],
]),
}(0, i.gn)(
    d.Command.String('-s,--scope', {
        description: 
    }}),
})
'Logout of the registry configured for a given scope',

P.prototype,
'scope',
void 0,

(0, i.gn)(

  d.Command.Boolean('--publish', {
    description: 'Logout of the publish registry',
  });

P.prototype,
'publish',
void 0,

(0, i.gn)(

  d.Command.Boolean('-A,--all', {
    description: 'Logout of all registries',
  });

P.prototype,
'all',
void 0,

(0, i.gn)(

  [d.Command.Path('npm', 'logout')],

P.prototype,
'execute',
null,

)

var T = r(63088),
j = r(49881)
class Y extends s.BaseCommand {
constructor() {
  super(...arguments),
  (this.tag = 'latest'),
  (this.tolerateRepublish = !1)
}
async execute() {
  const e = await o.VK.find(this.context.cwd, this.context.plugins),
  { project: t, workspace: r } = await a.I.find(e, this.context.cwd)
if (!r) throw new s.WorkspaceRequiredError(t.cwd, this.context.cwd)
if (r.manifest.private)
  throw new d.UsageError('Private workspaces cannot be published')
if (null === r.manifest.name || null === r.manifest.version)
throw new d.UsageError(
   'Workspaces must have valid names and versions to be published on an external registry',
)
await t.restoreInstallState()
const A = r.manifest.name,
   n = r.manifest.version,
   i = p.npmConfigUtils.getPublishRegistry(r.manifest, {
       configuration: e,
   })
return (
   await h.Pk.start(
       { configuration: e, stdout: this.context.stdout },
       async () => {
           if (this.tolerateRepublish)
               try {
                   const r = await p.npmHttpUtils.get(
                       p.npmHttpUtils.getIdentUrl(A),
                       { configuration: e, registry: i, ident: A, jsonResponse: !0, },
                   )
                   if (!Object.prototype.hasOwnProperty.call(r, 'versions'))
                       throw new g.lk(
                           l.b.REMOTE_INVALID,
                           'Registry returned invalid data for - missing "versions" field',
                       )
                   if (Object.prototype.hasOwnProperty.call(r.versions, n))
                       return void t.reportWarning(
                           l.b.UNNAMED,
                           `Registry already knows about version ${n}; skipping.`
                       )
               } catch (e) {
                   if ('HTTPError' !== e.name) throw e
                   if (404 !== e.response.statusCode)
                       throw new g.lk(
                           l.b.NETWORK_ERROR,
                           'The remote server answered with HTTP ${e.response.statusCode} ${e.response.statusMessage}',
                       )
               }
           await T.maybeExecuteWorkspaceLifecycleScript(
               r,
               'prepublish',
               { report: t },
           ),
           await j.packUtils.prepareForPack(
async () => {
    const n = await j.packUtils.genPackList(r)
    for (const e of n) {t.reportInfo(null, e)
    const o = await j.packUtils.genPackStream(r, n),
        s = await f.bufferStream(o),
        a = await p.npmPublishUtils.makePublishBody(r, s, {
            access: this.access,
            tag: this.tag,
            registry: i,
        })
    try {
        await p.npmHttpUtils.put(
            p.npmHttpUtils.getIdentUrl(A),
            a,
            {
                configuration: e,
                registry: i,
                ident: A,
                jsonResponse: !0,
            },
        )
    } catch (e) {
        if ('HTTPError' !== e.name) throw e
        const r =
            e.response.body && e.response.body.error
                ? e.response.body.error
                : 'The remote server answered with HTTP ${e.response.statusCode}
                ${e.response.statusMessage}'
            t.reportError(l.b.NETWORK_ERROR, r)
        }
    },
    ).hasErrors() ||
    t.reportInfo(l.b.UNNAMED, 'Package archive published')
},
).exitCode()
}
The package will by default be attached to the `latest` tag on the registry, but this behavior can be overridden by using the `--tag` option. Note that for legacy reasons scoped packages are by default published with an access set to `restricted` (aka "private packages"). This requires you to register for a paid npm plan. In case you simply wish to publish a public scoped package to the registry (for free), just add the `--access public` flag. This behavior can be enabled by default through the `npmPublishAccess` settings.

Examples: ["Publish the active workspace", 'yarn npm publish'],

```javascript
var G = r(46009)

class H extends s.BaseCommand {
```
}
constructor() {
  super(...arguments), (this.json = !1)
}

async execute() {
  const e = await o.VK.find(this.context.cwd, this.context.plugins),
    { project: t, workspace: r } = await a.I.find(e, this.context.cwd)
  let A
  if (void 0 !== this.package) A = C.parseIdent(this.package)
  else {
    if (!r)
      throw new s.WorkspaceRequiredError(t.cwd, this.context.cwd)
    if (!r.manifest.name)
      throw new d.UsageError(
        "Missing 'name' field in " + G.y1.join(r.cwd, G.QS.manifest),
      )
    A = r.manifest.name
  }
  const n = await J(A, e),
    i = {
      children: f
        .sortMap(Object.entries(n), ([e]) => e)
        .map(([e, t]) => {
          value: I.tuple(I.Type.RESOLUTION, {
            descriptor: C.makeDescriptor(A, e),
            locator: C.makeLocator(A, t),
          }));
        })),
    }
  return u.emitTree(i, {
    configuration: e,
    json: this.json,
    stdout: this.context.stdout,
  })
}

async function J(e, t) {
  const r = `/-/package${p.npmHttpUtils.getIdentUrl(e)}/dist-tags`
  return p.npmHttpUtils
    .get(r, { configuration: t, ident: e, jsonResponse: !0 })
    .catch((e) => {
      throw 'HTTPError' !== e.name
        ? e
        : 404 === e.response.statusCode
        ? new g.lk(l.b.EXCEPTION, 'Package not found')
        : new g.lk(l.b.EXCEPTION, e.toString())
    })
};(H.usage = d.Command.Usage({
category: 'Npm-related commands',
description: 'list all dist-tags of a package',
details:

"This command will list all tags of a package from the npm registry.

If the package is not specified, Yarn will default to the current workspace.
",
examples: [
    ['List all tags of package `my-pkg`', 'yarn npm tag list my-pkg'],
],
)}),
(0, i.gn)(
    [d.Command.String({ required: !1 })],
    H.prototype,
    'package',
    void 0,
).
(0, i.gn)(
    [d.Command.Boolean('--json', {
        description: 'Format the output as an NDJSON stream',
    })),
].
    H.prototype,
    'json',
    void 0,
).
(0, i.gn)(
    [d.Command.Path('npm', 'tag', 'list')],
    H.prototype,
    'execute',
    null,
)
}
class q extends s.BaseCommand {
    async execute() {
        const e = await o.VK.find(this.context.cwd, this.context.plugins),
            { project: t, workspace: r } = await a.I.find(e, this.context.cwd)
        if (!r) throw new s.WorkspaceRequiredError(t.cwd, this.context.cwd)
        const A = C.parseDescriptor(this.package, !0),
            n = A.range
        if (!k().valid(n))
            throw new d.UsageError(
                `The range ${I.pretty(                  e,                  A.range,                  I.Type.RANGE,              )} must be a valid semver version`,
            )
        const i = p.npmConfigUtils.getPublishRegistry(r.manifest, {
            configuration: e,
await h.Pk.start({
  configuration: e, stdout: this.context.stdout },
async (t) => {
  const r = await J(A, e)
  Object.prototype.hasOwnProperty.call(r, this.tag) &&
  r[this.tag] === n &&
  t.reportWarning(l.b.UNNAMED,
    `Tag ${u} is already set to version ${g}`,
  )
  try {
    const t = `/-/package${p.npmHttpUtils.getIdentUrl(A, )}/dist-tags/${encodeURIComponent(this.tag)}`
    await p.npmHttpUtils.put(t, n, {
      configuration: e,
      registry: i,
      ident: A,
      jsonResponse: !0,
      jsonResponse: !0,
    })
  } catch (e) {
    if ('HTTPError' !== e.name) throw e
    {
      const r =
        e.response.body && e.response.body.error
          ? e.response.body.error
          : `The remote server answered with HTTP ${e.response.statusCode} ${e.response.statusMessage}`
      t.reportError(l.b.NETWORK_ERROR, r)
    }
  }
  t.hasErrors() ||
  t.reportInfo(
    l.b.UNNAMED,
    `Tag ${u} added to version ${g} of package ${c}`,
  ),
},
).exitCode()}

; (q.usage = d.Command.Usage({
  category: 'Npm-related commands',
})}
description: 'add a tag for a specific version of a package',
details:

`yarn npm tag add my-pkg@2.3.4-beta.4 beta`,
examples: [

  'Add a `beta` tag for version `2.3.4-beta.4` of package `my-pkg`',
  'yarn npm tag add my-pkg@2.3.4-beta.4 beta',
],
]}

var z = r(15966)
class W extends s.BaseCommand {
  async execute() {
    const e = await o.VK.find(this.context.cwd, this.context.plugins),
    { project: t, workspace: r } = await a.I.find(e, this.context.cwd)
    if (!r) throw new s.WorkspaceRequiredError(t.cwd, this.context.cwd)
    const A = C.parseIdent(this.package),
    n = p.npmConfigUtils.getPublishRegistry(r.manifest, {
      configuration: e,
    }),
    i = I.pretty(e, this.tag, I.Type.CODE),
    c = I.pretty(e, A, I.Type.IDENT),
    g = await J(A, e)
    if (!Object.prototype.hasOwnProperty.call(g, this.tag))
      throw new d.UsageError(`${i} is not a tag of package ${c}`)
    return (await h.Pk.start(
      { configuration: e, stdout: this.context.stdout },
      async (t) => {
        try {
          const t = `/package${p.npmHttpUtils.getIdentUrl(A, c)}/dist-tags/${encodeURIComponent(this.tag)}`
          await p.npmHttpUtils.del(t, {
            configuration: e,
            registry: n,
            ident: A,
            jsonResponse: !0,
          })
        } catch (e) {
          throw e
        }
      }
    ))
  }
}
```javascript
try {
    const r = e.response.body && e.response.body.error ? e.response.body.error : `The remote server answered with HTTP ${e.response.statusCode} ${e.response.statusMessage}`
    t.reportError(l.b.NETWORK_ERROR, r)
} catch (e) {
    if ('HTTPError' !== e.name) throw e
    t.hasErrors() || t.reportInfo(l.b.UNNAMED, `Tag ${i} removed from package ${c}`, )
}
}.exitCode()

}(W.schema = z.object()
    .shape({ tag: z.string().notOneOf(['latest']) })),
(W.usage = d.Command.Usage(
    category: 'Npm-related commands',
    description: 'remove a tag from a package',
    details: `This command will remove a tag from a package from the npm registry.``
    ,
    examples: [
        [`Remove the `beta` tag from package `my-pkg`'`,
            'yarn npm tag remove my-pkg beta',
        ],
    ],
    )
),
(0, i.gn)([d.Command.String()], W.prototype, 'package', void 0),
(0, i.gn)([d.Command.String()], W.prototype, 'tag', void 0),
(0, i.gn)([d.Command.Path('npm', 'tag', 'remove')], W.prototype, 'execute', null,
)
class X extends s.BaseCommand {
    constructor() {
        super(...arguments), (this.publish = !1)
    }
    async execute() {
```
const e = await o.VK.find(this.context.cwd, this.context.plugins)
let t

t =
this.scope && this.publish
? p.npmConfigUtils.getScopeRegistry(this.scope, {
    configuration: e,
    type: p.npmConfigUtils.RegistryType.PUBLISH_REGISTRY,
}) : this.scope
? p.npmConfigUtils.getScopeRegistry(this.scope, {
    configuration: e,
}) : this.publish
? p.npmConfigUtils.getPublishRegistry(
    (await (0, s.openWorkspace)(e, this.context.cwd)).manifest,
    { configuration: e },
) : p.npmConfigUtils.getDefaultRegistry({ configuration: e })
return (await h.Pk.start(
    { configuration: e, stdout: this.context.stdout },
    async (r) => {
        try {
            const A = await p.npmHttpUtils.get('/-/whoami', {
                configuration: e,
                registry: t,
                authType: p.npmHttpUtils.AuthType.ALWAYS_AUTH,
                jsonResponse: !0,
                ident: this.scope ? C.makeIdent(this.scope, '') : void 0,
            })
            r.reportInfo(l.b.UNNAMED, A.username)
        } catch (e) {
            if ('HTTPError' !== e.name) throw e
            401 === e.response.statusCode ||
            403 === e.response.statusCode
            ? r.reportError(l.b.AUTHENTICATION_INVALID,
                'Authentication failed - your credentials may have expired',
            )
            : r.reportError(l.b.AUTHENTICATION_INVALID, e.toString())
        }
    }.
).exitCode()}
):(X.usage = d.Command.Usage({
category: 'Npm-related commands',
})
description: 'display the name of the authenticated user',
details:
"\n
Print the username associated with the current authentication settings to the standard output.\n\nWhen using `-s,--scope`, the username printed will be the one that matches the authentication settings of the registry associated with the given scope (those settings can be overridden using the `npmRegistries` map, and the registry associated with the scope is configured via the `npmScopes` map).\n\nWhen using `--publish`, the registry we'll select will by default be the one used when publishing packages (`publishConfig.registry` or `npmPublishRegistry` if available, otherwise we'll fallback to the regular `npmRegistryServer`).\n\n"

examples: [
  ['Print username for the default registry', 'yarn npm whoami'],
  ['Print username for the registry configured for a given scope', 'yarn npm whoami --scope company'],
],
]
])
(0, i.gn)(
  d.Command.String('-s,--scope', {
    description: 'Print username for the registry configured for a given scope',
  }),
],
X.prototype,
'scope',
void 0,
),
(0, i.gn)(
  d.Command.Boolean('--publish', {
    description: 'Print username for the publish registry',
  }),
],
X.prototype,
'publish',
void 0,
),
(0, i.gn)(
  [d.Command.Path('npm', 'whoami')],
X.prototype,
'execute',
null,
)
const V = {
  configuration: {
    npmPublishAccess: {
      description: 'Default access of the published packages',
      type: o.a2.STRING,
    },
  },
}
    default: null,
    },
    },
    commands: [D, F, R, P, Y, q, H, W, X],
    }
  }
)
14224: (e, t, r) => {
  'use strict'
  r.r(t),
  r.d(t, {
    default: () => W,
    npmConfigUtils: () => A,
    npmHttpUtils: () => n,
    npmPublishUtils: () => o,
  })
  var A = []
  r.r(A),
  r.d(A, {
    RegistryType: () => l,
    getAuthConfiguration: () => Q,
    getDefaultRegistry: () => y,
    getPublishRegistry: () => E,
    getRegistryConfiguration: () => m,
    getScopeConfiguration: () => w,
    getScopeRegistry: () => B,
    normalizeRegistry: () => I,
  })
  var n = []
  r.r(n),
  r.d(n, {
    AuthType: () => u,
    del: () => N,
    get: () => v,
    getIdentUrl: () => b,
    handleInvalidAuthenticationError: () => D,
    post: () => S,
    put: () => k,
  })
  var o = []
  r.r(o), r.d(o, { makePublishBody: () => J })
  var i = r(39922),
  s = r(54143),
  a = r(72785),
  c = r(53887),
  g = r.n(e)
  var l,
  u,
  h = r(79669),
p = r(35691),
d = r(92659),
C = r(61899),
f = r(78835)
function I(e) {
return e.replace(/\/$/, '')
}
function E(e, { configuration: t }) {
return e.publishConfig && e.publishConfig.registry
? I(e.publishConfig.registry)
: e.name
? B(e.name.scope, { configuration: t, type: l.PUBLISH_REGISTRY })
: y({ configuration: t, type: l.PUBLISH_REGISTRY })
}
function B(e, { configuration: t, type: r = l.FETCH_REGISTRY }) {
const A = w(e, { configuration: t })
if (null === A) return y({ configuration: t, type: r })
const n = A.get(r)
return null === n ? y({ configuration: t, type: r }) : I(n)
}
function y({ configuration: e, type: t = l.FETCH_REGISTRY }) {
const r = e.get(t)
return I(null !== r ? r : e.get(l.FETCH_REGISTRY))
}
function m(e, { configuration: t }) {
const r = t.get('npmRegistries'),
A = r.get(e)
if (void 0 !== A) return A
const n = r.get(e.replace(/^[a-z]+:/, ''))
return void 0 !== n ? n : null
}
function w(e, { configuration: t }) {
if (null === e) return null
const r = t.get('npmScopes').get(e)
return r || null
}
function Q(e, { configuration: t, ident: r }) {
const A = r && w(r.scope, { configuration: t })
if (
(null == A ? void 0 : A.get('npmAuthIdent')) ||
(null == A ? void 0 : A.get('npmAuthToken'))
)
return A
return m(e, { configuration: t }) || t
}
async function D(
e,
{ attemptedAs: t, registry: r, headers: A, configuration: n },

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if ('HTTPError' === e.name && 401 === e.response.statusCode)
throw new p.lk(d.b.AUTHENTICATION_INVALID,
'Invalid authentication (${
'string' !== typeof t
?'as ' +
 aziquire (async function (e, t, { configuration: r }) { var A
  if (void 0 === t || void 0 === t.authorization)
    return 'an anonymous user'
  try {
    const n = await h.get(new f.URL(e + '/-/whoami').href, {
      configuration: r,
      headers: t,
      jsonResponse: !0,
    })
    return null !== (A = n.username) && void 0 !== A
      ? A
        : 'an unknown user'
    ) catch (e) {
      return 'an unknown user'
    })(r, A, { configuration: n })
      : 'attempted as ' + t
  })
);
}
}
function b(e) {
  return e.scope ? '/@${e.scope}%2f${e.name} : ' + e.name
}async function v(e,
  { configuration: t,
  headers: r,
  ident: A,
  authType: n,
  registry: o,
  ...i
  },
) {
  if (
    (A && void 0 === o && (o = B(A.scope, { configuration: t })),
    A && A.scope && void 0 === n && (n = u.BEST_EFFORT),
    'string' !== typeof o)
  )
    throw new Error('Assertion failed: The registry should be a string')
const s = F(o, { authType: n, configuration: t, ident: A })
let a
s && (r = { ...r, authorization: s })
try {
a = new f.URL(e)
} catch (t) {
a = new f.URL(o + e)
}
try {
return await h.get(a.href, { configuration: t, headers: r, ...i })
} catch (e) {
throw (await D(e, { registry: o, configuration: t, headers: r }), e)
}
}
async function S(e, t, {
  attemptedAs: r,
  configuration: A,
  headers: n,
  ident: o,
  authType: i = u.ALWAYS_AUTH,
  registry: s,
  ...
}) {
if ((o && void 0 === s && (s = B(o.scope, { configuration: A })),
'string' !== typeof s)
)
throw new Error('Assertion failed: The registry should be a string')
const c = F(s, { authType: i, configuration: A, ident: o })
c &&& (n = { ...n, authorization: c })
try {
return await h.post(s + e, t, {
  configuration: A,
  headers: n,
  ...
})
} catch (o) {
if (!M(o))
  throw (
    await D(o, {
      attemptedAs: r,
      registry: s,
      configuration: A,
      headers: n,
    })
  )
}
async function k(e, t, {
  attemptedAs: r,
  configuration: A,
  headers: n,
  ident: o,
  authType: i = u.ALWAYS_AUTH,
  registry: s,
  ...a
},)
}{
  if (
    (o && void 0 === s && (s = B(o.scope, { configuration: A }))).
    'string' !== typeof s)
  )
    throw new Error('Assertion failed: The registry should be a string')
  const c = F(s, { authType: i, configuration: A, ident: o })
c && (n = {...n, authorization: c })
try {
  return await h.put(s + e, t, { configuration: A, headers: n, ...a })
} catch (o) {
  if (!M(o))
throw (
    (await D(o, {
        attemptedAs: r,
        registry: s,
        configuration: A,
        headers: n,
    })),
    o)
)
const i = await K(),
c = {...n, ...R(i)}
try {
    return await h.put(`${s}${e}`, t, {
        configuration: A,
        headers: c,
        ...a,
    }))
} catch (e) {
    throw (await D(e, {
        attemptedAs: r,
        registry: s,
        configuration: A,
        headers: n,
    })),
    e)
}
async function N(e, {
    attemptedAs: t,
    configuration: r,
    headers: A,
    ident: n,
    authType: o = u.ALWAYS_AUTH,
    registry: i,
    ...s
},)
{
    if (
        (n && void 0 === i && (i = B(n.scope, { configuration: r })),
        'string' !== typeof i)
    )
    throw new Error('Assertion failed: The registry should be a string')
const a = F(i, { authType: o, configuration: r, ident: n })
a && (A = [...A, authorization: a ])
try {
    return await h.del(i + e, { configuration: r, headers: A, ...s })
} catch (n) {
    if (!M(n))
        throw (
            (await D(n, {
                attemptedAs: t,
                registry: i,
                configuration: r,
                headers: A,
            }),
            n)
        )
    const o = await K(),
    a = [...A, ...R(o)]
    try {
    return await h.del(`${i}${e}`, {
        configuration: r,
        headers: a,
        ...s,
    })
} catch (e) {
    throw ( 
        (await D(e, {
            attemptedAs: t,
            registry: i,
            configuration: r,
            headers: A,
        }),
        e)
    )
}
}
function F(e, {
    authType: t = u.CONFIGURATION, configuration: r, ident: A },
) {
    const n = Q(e, { configuration: r, ident: A }),
    o = (function (e, t) {
        switch (t) {
            case u.CONFIGURATION:
                return e.get('npmAlwaysAuth')
            case u.BEST_EFFORT:
            case u.ALWAYS_AUTH:
                return !0
            case u.NO_AUTH:
                return !0
        }
    })(e, t)
}
    return !1
    default:
        throw new Error('Unreachable')
    }
  })(n, t)
if (!o) return null
if (n.get('npmAuthToken')) return 'Bearer ' + n.get('npmAuthToken')
if (n.get('npmAuthIdent')) return 'Basic ' + n.get('npmAuthIdent')
if (o & t !== u.BEST_EFFORT)
    throw new p.lk(
        d.b.AUTHENTICATION_NOT_FOUND,
        'No authentication configured for request',
    )
return null
}

async function K() {
    if (process.env.TEST_ENV) return process.env.TEST_NPM_2FA_TOKEN || ''
    const { otp: e } = await (0, C.prompt)(
        type: 'password',
        name: 'otp',
        message: 'One-time password:',
        required: !0,
        onCancel: () => process.exit(130),
    )
    return e
}

function M(e) {
    if ('HTTPError' !== e.name) return !1
    try {
        return e.response.headers['www-authenticate']
            .split(/,\s*/)
            .map((e) => e.toLowerCase())
            .includes('otp')
    } catch (e) {
        return !1
    }
}

function R(e) {
    return { 'npm-otp': e }
}

!(function (e) {
    (e.FETCH_REGISTRY = 'npmRegistryServer'),
    (e.PUBLISH_REGISTRY = 'npmPublishRegistry')
})(
    !(! (l || (l = {})),
    (function (e) {
        :(e.NO_AUTH = 0) = 'NO_AUTH',
        (e.BEST_EFFORT = 1) = 'BEST_EFFORT',
        (e.CONFIGURATION = 2) = 'CONFIGURATION',
    })
)});
class x {
    supports(e, t) {
        if (!e.reference.startsWith('npm:')) return !1
        const r = new f.URL(e.reference)
        return (!g().valid(r.pathname) && !r.searchParams.has('__archiveUrl')
        )
    }
    getLocalPath(e, t) {
        return null
    }
}

async fetch(e, t) {
    const r = t.checksums.get(e.locatorHash) || null,
    [A, n, o] = await t.cache.fetchPackageFromCache(e, r, {
        onHit: () => t.report.reportCacheHit(e),
        onMiss: () =>
        t.report.reportCacheMiss(e,
            s.prettyLocator(t.project.configuration, e) +
            " can't be found in the cache and will be fetched from the remote registry",
        ),
        loader: () => this.fetchFromNetwork(e, t),
        skipIntegrityCheck: t.skipIntegrityCheck,
    })
    return {
        packageFs: A,
        releaseFs: n,
        prefixPath: s.getIdentVendorPath(e),
        checksum: o,
    }
}

async fetchFromNetwork(e, t) {
    let r
    try {
        r = await v(x.getLocatorUrl(e), {
            configuration: t.project.configuration,
            ident: e,
        })
    } catch (A) {
        r = await v(x.getLocatorUrl(e).replace(/%2f/g, '/'), {
            configuration: t.project.configuration,
            ident: e,
        })
    }
    return await a.convertToZip(r, {
        compressionLevel: t.project.configuration.get('compressionLevel'),
    })
}
prefixPath: s.getIdentVendorPath(e),
stripComponents: 1,
})
}

static isConventionalTarballUrl(e, t, { configuration: r }) {
let A = B(e.scope, { configuration: r })
const n = x.getLocatorUrl(e)
return (
(t = t.replace(
  /^https?:\/\/(?:[^/]+\.)?npmjs.org(?:$|/))/,
   'https:$1',
  ).
(A = A.replace(
  /^https\:\/\/registry\\npmjs\\org(?|/))/,
   'https://registry.yarnpkg.com$1',
  ),
(t = t.replace(
  /^https\:\/\/registry\\npmjs\\org(?|/))/,
   'https://registry.yarnpkg.com$1',
  )) ===
A + n || t === A + n.replace(/%2f/g, '/')
}
}

static getLocatorUrl(e) {
const t = g().clean(e.reference.slice('npm:'.length))
if (null === t)
  throw new p.lk(  
d.b.RESOLVER_NOT_FOUND,  
   "The npm semver resolver got selected, but the version isn't semver",  
)
return `%{b(e)}/-${e.name}-${t}.tgz`
}
}

var L = r(46611),
P = r(36545),
O = r(32485)
const U = s.makeIdent(null, 'node-gyp'),
T = `/b(node-gyp|prebuild-install)\b/
var j = r(52779)
var Y = r(49881),
G = r(76417),
H = r(10129)
async function J(e, t, { access: r, tag: A, registry: n }) {
const o = e.project.configuration,
i = e.manifest.name,
a = e.manifest.version,
c = s.stringifyIdent(i),
g = (0, G.createHash)('sha1').update(t.digest('hex'),
```javascript
1 = H.Sd(t).toString()
void 0 === r &&
(r =
e.manifest.publishConfig &&
'string' == typeof e.manifest.publishConfig.access
? e.manifest.publishConfig.access
: null !== o.get('npmPublishAccess')
? o.get('npmPublishAccess')
: i.scope
? 'restricted'
: 'public')
const u = await Y.packUtils.genPackageManifest(e),
h = `${c}-${a}.tgz`,
p = new f.URL(`${c}/-/${h}`, n)
return {
  _id: c,
  _attachments: {
    [h]: {
      content_type: 'application/octet-stream',
      data: t.toString('base64'),
      length: t.length,
    },
  },
  name: c,
  access: r,
  'dist-tags': { [A]: a },
  versions: { [a]: {
    ...u,
    _id: `${c}@${a}`,
    name: c,
    version: a,
    dist: { shasum: g, integrity: l, tarball: p.toString() },
  },
  },
}
const q = {
npmAlwaysAuth: {
  description: 
  "URL of the selected npm registry (note: npm enterprise isn't supported)",
  type: i.a2.BOOLEAN,
  default: !1,
},
npmAuthIdent: {
  description: 
  'Authentication identity for the npm registry (_auth in npm and yarn v1)',
  type: i.a2.SECRET,
```
default: null,
},
npmAuthToken: {
  description:
  'Authentication token for the npm registry (_authToken in npm and yarn v1)',
  type: i.a2.SECRET,
  default: null,
},
},
},
z = {
  npmPublishRegistry: {
    description: 'Registry to push packages to',
    type: i.a2.STRING,
    default: null,
  },
  npmRegistryServer: {
    description: "URL of the selected npm registry (note: npm enterprise isn’t supported)",
    type: i.a2.STRING,
    default: 'https://registry.yarnpkg.com',
  },
},
},
W = {
  configuration: {
    ...q,
    ...z,
    npmScopes: {
      description: 'Settings per package scope',
      type: i.a2.MAP,
      valueDefinition: {
        description: '',
        type: i.a2.SHAPE,
        properties: { ...q, ...z },
      },
    },
    npmRegistries: {
      description: 'Settings per registry',
      type: i.a2.MAP,
      normalizeKeys: I,
      valueDefinition: {
        description: '',
        type: i.a2.SHAPE,
        properties: { ...q },
      },
    },
  },
},
},
fetchers: [ class {
supports(e, t) {
  if (!e.reference.startsWith('npm:')) return !1
  const { selector: r, params: A } = s.parseRange(e.reference)
  return (!g().valid(r) &&
    null !== A &&
    'string' == typeof A.__archiveUrl)
}

getLocalPath(e, t) {
  return null
}

async fetch(e, t) {
  const r = t.checksums.get(e.locatorHash) || null,
      [A, n, o] = await t.cache.fetchPackageFromCache(e, r, {
        onHit: () => t.report.reportCacheHit(e),
        onMiss: () =>
          t.report.reportCacheMiss(e,
            s.prettyLocator(t.project.configuration, e) +
            " can't be found in the cache and will be fetched from the remote server",
          ),
        loader: () => this.fetchFromNetwork(e, t),
        skipIntegrityCheck: t.skipIntegrityCheck,
      })
  return {
    packageFs: A,
    releaseFs: n,
    prefixPath: s.getIdentVendorPath(e),
    checksum: o,
  }
}

async fetchFromNetwork(e, t) {
  const { params: r } = s.parseRange(e.reference)
  if (null === r || 'string' !== typeof r.__archiveUrl)
    throw new Error('Assertion failed: The archiveUrl querystring parameter should have been available',)
  const A = await v(r.__archiveUrl, {
    configuration: t.project.configuration,
    ident: e,
  })
  return await a.convertToZip(A, {
    compressionLevel: t.project.configuration.get('compressionLevel',),
    prefixPath: s.getIdentVendorPath(e),
    stripComponents: 1,
  })
resolvers: [
  class {
    supportsDescriptor(e, t) {
      return (e.range.startsWith('npm:') &&
        P.validRange(e.range.slice('npm:'.length)))
    }
    supportsLocator(e, t) {
      return !1
    }
    shouldPersistResolution(e, t) {
      throw new Error('Unreachable')
    }
    bindDescriptor(e, t, r) {
      return e
    }
    getResolutionDependencies(e, t) {
      const r = P.parseDescriptor(e.range.slice('npm:'.length), !0)
      return t.resolver.getResolutionDependencies(r, t)
    }
    async getCandidates(e, t, r) {
      const A = P.parseDescriptor(e.range.slice('npm:'.length), !0)
      return await r.resolver.getCandidates(A, t, r)
    }
    async getSatisfying(e, t, r) {
      const A = P.parseDescriptor(e.range.slice('npm:'.length), !0)
      return r.resolver.getSatisfying(A, t, r)
    }
    resolve(e, t) {
      throw new Error('Unreachable')
    }
  },
  class {
    supportsDescriptor(e, t) {
      return (!e.range.startsWith('npm:') &&
        P.validRange(e.range.slice('npm:'.length)))
    }
    supportsLocator(e, t) {
      if (!e.reference.startsWith('npm:')) return !1
      const { selector: r } = P.parseRange(e.reference)
```javascript
return !!g().valid(r)
}
shouldPersistResolution(e, t) {
    return !0
}
bindDescriptor(e, t, r) {
    return e
}
getResolutionDependencies(e, t) {
    return []
}
async getCandidates(e, t, r) {
    const A = P.validRange(e.range.slice('npm:'.length))
    if (null === A)
        throw new Error(
            'Expected a valid range, got ' + e.range.slice('npm:'.length),
        )
    const n = await v(b(e), {
        configuration: r.project.configuration,
        ident: e,
        jsonResponse: !0,
    }),
    o = Object.keys(n.versions)
        .map((e) => new (g().SemVer)(e))
        .filter((e) => A.test(e)),
    i = o.filter((e) => !n.versions[e.raw].deprecated),
    a = i.length > 0 ? i : o
    return (a.sort((e, t) => -e.compare(t)),
        a.map((t) => {
            const A = s.makeLocator(e, 'npm:' + t.raw),
                o = n.versions[t.raw].dist.tarball
            return x.isConventionalTarballUrl(A, o, {
                configuration: r.project.configuration,
            })
                ? A
                : s.bindLocator(A, { __archiveUrl: o })
        }))
}
async getSatisfying(e, t, r) {
    const A = P.validRange(e.range.slice('npm:'.length))
    if (null === A)
        throw new Error(
            'Expected a valid range, got ' + e.range.slice('npm:'.length),
        )
```
return t
.map(e => {
  try {
    return new (g().SemVer)(e.slice('npm:'.length))
  } catch (e) {
    return null
  }
})
.filter(e => null !== e)
.filter(e => A.test(e))
.sort((e, t) => -e.compare(t))
.map(t => s.makeLocator(e, 'npm:' + t.raw))
}
async resolve(e, t) {
  const { selector: r } = s.parseRange(e.reference),
    A = g().clean(r)
  if (null === A)
    throw new p.lk(
      d.b.RESOLVER_NOT_FOUND,
      "The npm semver resolver got selected, but the version isn’t semver."
    )
  const n = await v(b(e), {
    configuration: t.project.configuration,
    ident: e,
    jsonResponse: !0,
  })
  if (!Object.prototype.hasOwnProperty.call(n, 'versions'))
    throw new p.lk(
      d.b.REMOTE_INVALID,
      'Registry returned invalid data for - missing "versions" field."
    )
  if (!Object.prototype.hasOwnProperty.call(n.versions, A))
    throw new p.lk(
      d.b.REMOTE_NOT_FOUND,
      "Registry failed to return reference "${A}"."
    )
  const o = new L.G() 
  if ( 
    (o.load(n.versions[A]),
      !o.dependencies.has(U.identHash) &&
      !o.peerDependencies.has(U.identHash))
  )
    for (const r of o.scripts.values())
      if (r.match(T)) {
        o.dependencies.set( 
          U.identHash, 
          s.makeDescriptor(U, 'latest'), 
        ),}
t.report.reportWarning(
    d.b.NODE_GYP_INJECTED,
    s.prettyLocator(t.project.configuration, e) +
    ': Implicit dependencies on node-gyp are discouraged',
)
break
}
return (  
'string' == typeof o.raw.deprecated &&
    t.report.reportWarning(
        d.b.DEPRECATED_PACKAGE,
        '${s.prettyLocator(
            t.project.configuration,
            e,
        )} is deprecated: ${o.raw.deprecated}',
    ),
    {
        ...
        e,
        version: A,
        languageName: 'node',
        linkType: O.Un.HARD,
        dependencies: o.dependencies,
        peerDependencies: o.peerDependencies,
        dependenciesMeta: o.dependenciesMeta,
        peerDependenciesMeta: o.peerDependenciesMeta,
        bin: o.bin,
    }
)
)
},
class {
    supportsDescriptor(e, t) {
        return (  
            !e.range.startsWith('npm:') &&
            !j.c.test(e.range.slice('npm:'.length))
        )
    }
}
supportsLocator(e, t) {
    return !1
}
shouldPersistResolution(e, t) {
    throw new Error('Unreachable')
}
bindDescriptor(e, t, r) {
    return e
}
getResolutionDependencies(e, t) {
    return []
}
async getCandidates(e, t, r) {
    const A = e.range.slice('npm:'.length),
    n = await v(b(e), {
        configuration: r.project.configuration,
        ident: e,
        jsonResponse: !0,
    })
    if (!Object.prototype.hasOwnProperty.call(n, 'dist-tags'))
        throw new p.lk(
            d.b.REMOTE_INVALID,
            'Registry returned invalid data - missing "dist-tags" field',
        )
    const o = n['dist-tags']
    if (!Object.prototype.hasOwnProperty.call(o, A))
        throw new p.lk(
            d.b.REMOTE_NOT_FOUND,
            'Registry failed to return tag "$A"',
        )
    const i = o[A],
    a = s.makeLocator(e, 'npm:' + i),
    c = n.versions[i].dist.tarball
    return x.isConventionalTarballUrl(a, c, {
        configuration: r.project.configuration,
    })
    ? [a]
    : [s.bindLocator(a, { __archiveUrl: c })]
}
async getSatisfying(e, t, r) {
    return null
}
async resolve(e, t) {
    throw new Error('Unreachable')
}

49881: (e, t, r) => {
    'use strict'
    r.r(t), r.d(t, { default: () => T, packUtils: () => A })
    var A = {}
    r.r(A),
    r.d(A, {
        genPackList: () => K,
        genPackStream: () => N,
        genPackageManifest: () => F,
        hasPackScripts: () => S,
prepareForPack: () => k,
})
var n = r(54143),
o = r(35691),
i = r(92659),
s = r(36370),
a = r(40822)
class c extends a.Command {}
(0, s, gn)(
    [a.Command.String('--cwd', { hidden: '0 ' }}],
c.prototype,
    'cwd',
    void 0,
)
var g = r(46611),
l = r(46009)
class u extends a.UsageError {
    constructor(e, t) {
        super(
            'This command can only be run from within a workspace of your project ($1.y1.relative(',
            e,
            t,
        )) isn't a workspace of $1.y1.join(e, g.G.fileName)).',
        )
    }
}
}
]
new Map([
    ['constraints',
        [,
        ['constraints', 'query'],
        ['constraints', 'source'],
        ['constraints'],
    ],
],
['exec', []],
['interactive-tools', [['search'], ['upgrade-interactive']]],
['stage', ['stage']],
['typescript', []],
['version',
    [['version', 'apply'], ['version', 'check'], ['version']],
],
['workspace-tools',
    ['workspaces', 'focus'],
]
var h = r(71643),
p = r(39922)
;(0, s.gn)(
[a.Command.Path('--welcome')],
class extends c {
async execute() {
  const e = await p.VK.find(this.context.cwd, this.context.plugins)
  this.context.stdout.write(
    ((e) =>
      `
  ${h.pretty(e, 'Welcome on Yarn 2!'), 'bold',
      `)
  )
  )
)
  Thanks for helping us shape our vision of how projects should be managed going forward.
  Being still in RC, Yarn 2 isn't completely stable yet. Some features might be missing, and some behaviors may have received major overhaul. In case of doubt, use the following URLs to get some insight:
  - The changelog:
    ${h.pretty(e, 'https://github.com/yarnpkg/berry/tree/CHANGELOG.md', 'cyan',
    )}
  - Our issue tracker:
    ${h.pretty(e, 'https://github.com/yarnpkg/berry', 'cyan',
    )}
  - Our Discord server:
    ${h.pretty(e, 'https://discord.gg/yarnpkg', 'cyan',
    )}
We're hoping you will enjoy the experience. For now, a good start is to run the two following commands:
  ${h.pretty(e, 'find . -name node_modules -prune -exec rm -r {} \;', 'magenta',
  )}
  ${h.pretty(e, 'yarn install', 'magenta',
  )}
One last trick! If you need at some point to upgrade Yarn to a nightly build, the following command will install the CLI straight from master:
  ${h.pretty(e, 'yarn set version from sources', 'magenta',
  )}
See you later
`)(e).trim() + '
,
async function S(e) {
  return (  
    !!B.hasWorkspaceScript(e, 'prepack') ||
    !!B.hasWorkspaceScript(e, 'postpack')
  )
}

async function k(e, { report: t }, r) {
  await B.maybeExecuteWorkspaceLifecycleScript(e, 'prepack', {  
    report: t,
  })
}
try {
    await r()
} finally {
    await B.maybeExecuteWorkspaceLifecycleScript(e, 'postpack', {
        report: t,
    })
}
}

async function N(e, t) {
    var r, A
    void 0 === t && (t = await K(e))
    const n = new Set()
    for (const t of null !== (A = null === (r = e.manifest.publishConfig) || void 0 === r ? void 0 : r.executableFiles) && void 0 !== A ? A : new Set())
        n.add(l.y1.normalize(t))
    for (const t of e.manifest.bin.values()) n.add(l.y1.normalize(t))
    const o = Q.pack()
    process.nextTick(async () => {
        for (const r of t) {
            const t = l.y1.normalize(r),
                A = l.y1.resolve(e.cwd, t),
                i = l.y1.join('package', t),
                s = await E.xfs.lstatPromise(A),
                a = { name: i, mtime: new Date(3155328e5) },
                c = n.has(t) ? 493 : 420
            let g, u
            const h = new Promise((e, t) => {
                g = e, u = t
            }),
            p = (e) => {
                e ? u(e) : g()
            }
            if (s.isFile()) {
                let r
                ;(r = 'package.json' === t ? Buffer.from(JSON.stringify(await F(e), null, 2)) : await E.xfs.readFilePromise(A)),
                o.entry({ ...a, mode: c, type: 'file' }, r, p)
            } else
                s.isSymbolicLink()
                ? o.entry(
                    {

async function F(e) {
  const t = JSON.parse(JSON.stringify(e.manifest.raw))
  return (
    await e.project.configuration.triggerHook(
      (e) => e.beforeWorkspacePacking,
      e,
      t,
    ),
    t
  )
}

async function K(e) {
  var t, r, A, n, o, i, s, a
  const c = e.project,
    g = c.configuration,
    u = { accept: [], reject: [] }
  for (const e of v) u.reject.push(e)
  for (const e of b) u.accept.push(e)
  u.reject.push(g.get('rcFilename'))
  h(l.y1.resolve(c.cwd, g.get('lockfileFilename'))),
  h(g.get('bstatePath')),
h(g.get('cacheFolder')), h(g.get('globalFolder')), h(g.get('installStatePath')), h(g.get('virtualFolder')), h(g.get('yarnPath')),
await g.triggerHook(
  (e) => e.populateYarnPaths,
  c,
  (e) => {
    h(e)
  },
)
for (const t of c.workspaces) {
  const r = l.y1.relative(e.cwd, t.cwd)
  '' === r || r.match(/(^\./)\//) || u.reject.push('/' + r)
}
const p = { accept: [], reject: [] },
d = null !==
  (r =
    null === (t = e.manifest.publishConfig) || void 0 === t
    ? void 0
    : t.main) && void 0 !== r
    ? r
    : e.manifest.main,
C =
  null !==
    (n =
      null === (A = e.manifest.publishConfig) || void 0 === A
      ? void 0
      : A.module) && void 0 !== n
      ? n
      : e.manifest.module,
f =
  null !==
    (i =
      null === (o = e.manifest.publishConfig) || void 0 === o
      ? void 0
      : o.browser) && void 0 !== i
      ? i
      : e.manifest.browser,
I =
  null !==
    (a =
      null === (s = e.manifest.publishConfig) || void 0 === s
      ? void 0
      : s.bin) && void 0 !== a
      ? a
null != d && p.accept.push(l.y1.resolve(l.LZ.root, d)),
null != C && p.accept.push(l.y1.resolve(l.LZ.root, C)),
'string' == typeof f && p.accept.push(l.y1.resolve(l.LZ.root, f))
for (const e of I.values()) p.accept.push(l.y1.resolve(l.LZ.root, e))
if (f instanceof Map)
  for (const [e, t] of f.entries())
    p.accept.push(l.y1.resolve(l.LZ.root, e)),
'string' == typeof t &&
    p.accept.push(l.y1.resolve(l.LZ.root, t))
const E = null !== e.manifest.files
if (E) {
  p.reject.push('/**/')
  for (const t of e.manifest.files) R(p.accept, t, { cwd: l.LZ.root })
}
return await (async function (e,
  hasExplicitFileList: t, globalList: r, ignoreList: A },
) {
  const n = [],
  o = new y.n(e),
  i = [[l.LZ.root, [A]]]
  for (; i.length > 0; ) {
    const [e, A] = i.pop(),
    s = await o.lstatPromise(e)
    if (x(e, {
      globalList: t,
      ignoreLists: s.isDirectory() ? null : A,
    }));
  }
  if (s.isDirectory()) {
    const n = await o.readdirPromise(e)
    let s = !1,
    a = !1
    if (!t || e !== l.LZ.root)
      for (const e of n)
        (s = s || '.gitignore' === e),
        (a = a || '.npmignore' === e)
    const c = a
    ? await M(o, e, '.npmignore')
    : s
    ? await M(o, e, '.gitignore')
    : null
    let g = null !== c ? [c].concat(A) : A
    x(e, { globalList: t, ignoreLists: A }) &&
    (g = [...A, { accept: [], reject: ['**/*'] }])
    for (const t of n) i.push([l.y1.resolve(e, t), g])
async function M(e, t, r) {
    const A = { accept: [], reject: [] },
        n = await e.readFilePromise(l.y1.join(t, r), 'utf8')
    for (const e of n.split(/
/g)) R(A.reject, e, { cwd: t })
    return A
}

function R(e, t, { cwd: r }) {
    const A = t.trim()
    " !== A &&
    "#' !== A[0] &&
    e.push(
        (function (e, { cwd: t }) {
            const r = '!' === e[0] === e[0]
            return (r && (e = e.slice(1)),
                e.match(/\./){0,1}//) && (e = l.y1.resolve(t, e)),
                r && (e = '!' + e),
                e)
        })(A, { cwd: r }),
    )
    return A, { cwd: r },
}

function x(e, { globalList: t, ignoreLists: r }) {
    if (L(e, t.accept)) return !1
    if (L(e, t.reject)) return !0
    if (null !== r)
        for (const t of r) {
            if (L(e, t.accept)) return !1
            if (L(e, t.reject)) return !0
        }
    return !1
}

function L(e, t) {
    let r = t
    const A = []
    for (let e = 0; e < t.length; ++e)
        if ('!' === t[e][0] || e !== t[e][0] && e.push(t[e])
            (r === t && r.push(t[e])
                : (r === t && (r = t.slice(0, e)), A.push(t[e].slice(1)))
            return !P(e, A) && !P(e, r)
        )
function P(e, t) {
    let r = t
    const A = []
    for (let e = 0; e < t.length; ++e)
        t[e].includes('/')
            ? r !== t && r.push(t[e])
            : (r === t && (r = t.slice(0, e)), A.push(t[e]))
    return (w().isMatch(e, r, { dot: !0, nocase: !0 }) ||
        w().isMatch(e, A, { dot: !0, basename: !0, nocase: !0 }));
}

class O extends c {
    constructor() {
        super(...arguments),
        (this.installIfNeeded = !1),
        (this.dryRun = !1),
        (this.json = !1)
    }
    async execute() {
        const e = await p.VK.find(this.context.cwd, this.context.plugins),
            { project: t, workspace: r } = await d.I.find(e, this.context.cwd)
        if (!r) throw new u(t.cwd, this.context.cwd)
        ;(await S(r)) &&
            (this.installIfNeeded
                ? await t.install(
                    cache: await C.C.find(e),
                    report: new f.$(),
                )
                : await t.restoreInstallState())
    const A =
        void 0 !== this.out
            ? l.y1.resolve(
                this.context.cwd,
                function (e, { workspace: t }) {
                    const r = e
                        .replace( '
%e',
                            function (e) {
                                return null !== e.manifest.name
                                    ? n.slugifyIdent(e.manifest.name)
                                    : 'package'
                            })(0),
                    )
                        .replace( '
%v',
                            function (e) {
                                return null !== e.manifest.version
                            })(0),
            )
? e.manifest.version
  : 'unknown'
})()
)
return l.cS.toPortablePath(r)
})(this.out, { workspace: r }),
)
: l.y1.resolve(r.cwd, 'package.tgz')
return ( await I.Pk.start(
{
  configuration: e,
  stdout: this.context.stdout,
  json: this.json,
},
async (!) => {
  await k(r, { report: t }, async () => {
    t.reportJson({ base: r.cwd })
    const e = await K(r)
    for (const r of e)
      t.reportInfo(null, r), t.reportJson({ location: r })
    if (!this.dryRun) {
      const t = await N(r, e),
        n = E.xfs.createWriteStream(A)
      t.pipe(n),
      await new Promise((e) => {
        n.on('finish', e)
      })
    }
  }),
  this.dryRun ||
  (t.reportInfo(
    i.b.UNNAMED,
    'Package archive generated in ' +
    h.pretty(e, A, h.Type.PATH),
  ),
    t.reportJson({ output: A })
  ),
}.exitCode()
})
  description: 'generate a tarball from the active workspace',
  details:
  "This command will turn the active workspace into a compressed archive suitable for publishing. The archive will by default be stored at the root of the workspace (‘package.tgz’). If the ‘-o,---out’ is set the archive will be created at the specified path. The ‘%s’ and ‘%v’ variables can be used within the path and will be
respectively replaced by the package name and version.

examples: [ 
    ['Create an archive from the active workspace', 'yarn pack'], 
    ['List the files that would be made part of the workspace’s archive', 'yarn pack --dry-run'], 
    ['Name and output the archive in a dedicated folder', 'yarn pack --out /artifacts/%s-%v.tgz'], 
]).
hidden: !1,
description: 'Create the archive at the specified path',
}),
a.Command.String('-o,--out', {
description: 'Create the archive at the specified path',
}),
]
O.prototype,
'out',
void 0,
),
(0, s.gn)([a.Command.Path('pack')], O.prototype, 'execute', null)
const U = ['dependencies', 'devDependencies', 'peerDependencies'],
T = {
  hooks: {
    beforeWorkspacePacking: (e, t) => {
      t.publishConfig &&
        (t.publishConfig.main && (t.main = t.publishConfig.main),
         t.publishConfig.browser &&
            (t.browser = t.publishConfig.browser),
         t.publishConfig.module && (t.module = t.publishConfig.module),
         t.publishConfig.browser &&
            (t.browser = t.publishConfig.browser),
         t.publishConfig.bin && (t.bin = t.publishConfig.bin))
      const r = e.project
      for (const A of U)
        for (const s of e.manifest.getForScope(A).values()) {
          const e = r.tryWorkspaceByDescriptor(s),
            a = n.parseRange(s.range)
          if ('workspace:' === a.protocol)
            if (null === e) {
              throw new o.lk(i.b.WORKSPACE_NOT_FOUND,
                        n.prettyDescriptor(r.configuration, s) +
                        ': No local workspace found for this range',
                        )
            } else {
              let r
              :r =
                n.areDescriptorsEqual(s, e.anchoredDescriptor) ||
                '=' === a.selector
                  ? e.manifest.version
                  : a.selector,
                (t[A][n.stringifyIdent(s)] = r)
            }
        }
    },
}
`use strict`

```javascript
var A = {};

applyPatchFile: () => S,
diffFolders: () => H,
extractPackageToDisk: () => G,
isParentRequired: () => j,
loadPatchFiles: () => Y,
makeDescriptor: () => O,
makeLocator: () => U,
parseDescriptor: () => x,
parseLocator: () => L,
parsePatchFile: () => D,
```

```javascript
class I extends Error {
  constructor(e, t) {
    super('Cannot apply hunk #' + (e + 1)), (this.hunk = t)
  }
}

const E = /^@@ -\d+\d* \+\d+\d*/.

function B(e) {
  return g.y1.relative(
    g.LZ.root,
    g.y1.resolve(g.LZ.root, g.cS.toPortablePath(e)),
  )
}

function y(e) {
```

```javascript
const t = e.trim().match(E)
if (!t) throw new Error('Bad header line: "$\{e\}"
return {
  original: {
    start: Math.max(Number(t[1]), 1),
    length: Number(t[3] || 1),
  },
  patched: {
    start: Math.max(Number(t[4]), 1),
    length: Number(t[6] || 1),
  },
},
}

var m
!(function (e) {
  (e.Context = 'context'),
  (e.Insertion = 'insertion'),
  (e.Deletion = 'deletion')
})(m || (m = {}))
const w = {
  '@': 'header',
  '-': m.Deletion,
  '+': m.Insertion,
  ':': m.Context,
  '\': 'pragma',
  undefined: m.Context,
}

function Q(e) {
  const t = 511 & parseInt(e, 8)
  if (420 !== t && 493 !== t)
    throw new Error('Unexpected file mode string: ' + e)
  return t
}

function D(e) {
  const t = e.split(/
/g)
  return (" === [t.length - 1] && t.pop(),
  (function (e) {
    const t = []
    for (const r of e) {
      const {
        semverExclusivity: e,
        diffLineFromPath: A,
        diffLineToPath: n,
        oldMode: o,
        newMode: i,
        deletedFileMode: s,
        newFileMode: c,
renameFrom: g,
renameTo: l,
beforeHash: u,
afterHash: h,
fromPath: p,
toPath: d,
hunks: C,
} = r,
f = g
? 'rename'
  : s
? 'file deletion'
  : c
? 'file creation'
  : C && C.length > 0
? 'patch'
  : 'mode change'
let I = null
switch (f) {
  case 'rename':
    if (!g || !l)
      throw new Error(
        'Bad parser state: rename from & to not given',
      )
t.push({
      type: 'rename',
      semverExclusivity: e,
      fromPath: B(g),
      toPath: B(l),
    }),
    (I = l)
    break
  case 'file deletion':
    {
    const r = A || p
    if (!r)
      throw new Error(
        'Bad parse state: no path given for file deletion',
      )
t.push({
      type: 'file deletion',
      semverExclusivity: e,
      hunk: (C && C[0]) || null,
      path: B(r),
      mode: Q(s),
      hash: u,
    })
  }
break
case 'file creation':
{
    const r = n || d
    if (!r)
        throw new Error(
            'Bad parse state: no path given for file creation',
        )
    t.push(
        {
            type: 'file creation',
            semverExclusivity: e,
            hunk: (C && C[0]) || null,
            path: B(r),
            mode: Q(c),
            hash: h,
        }
    )
}
break
case 'patch':
case 'mode change':
    I = d || n
break
default:
    a.assertNever(f)
}
I &&
o &&
i &&
o !== i &&
t.push(
    {
        type: 'mode change',
        semverExclusivity: e,
        path: B(I),
        oldMode: Q(o),
        newMode: Q(i),
    },
)
I &&
C &&
C.length &&
t.push(
    {
        type: 'patch',
        semverExclusivity: e,
        path: B(I),
        hunks: C,
        beforeHash: u,
        afterHash: h,
    }
)
return t
})
(function (e) {
    const t = []
    let r = {
        semverExclusivity: null,
        diffLineFromPath: null,
        diffLineToPath: null,
        oldMode: null,
        newMode: null,
        deletedFileMode: null,
        newFileMode: null,
        renameFrom: null,
        renameTo: null,
        beforeHash: null,
        afterHash: null,
        fromPath: null,
        toPath: null,
        hunks: null,
    },
    A = 'parsing header',
    n = null,
    o = null
    function i() {
        n &&
        (o && (n.parts.push(o), (o = null)),
        r.hunks.push(n),
        (n = null))
    }
    function s() {
        i(),
        t.push(r),
        (r = {
            semverExclusivity: null,
            diffLineFromPath: null,
            diffLineToPath: null,
            oldMode: null,
            newMode: null,
            deletedFileMode: null,
            newFileMode: null,
            renameFrom: null,
            renameTo: null,
            beforeHash: null,
            afterHash: null,
            fromPath: null,
            toPath: null,
            hunks: null,
        })
for (let t = 0; t < e.length; t++) {
    const c = e[t]
    if ('parsing header' === A)
        if (c.startsWith('@@'))
            (A = 'parsing hunks'), (r.hunks = []), (t -= 1)
        else if (c.startsWith('diff --git '))
            r && r.diffLineFromPath && s()
            const e = c.match(/^diff --git a/(.*?)/
                b/(.*?)/$/)
            if (!e) throw new Error('Bad diff line: ' + c)
                (r.diffLineFromPath = e[1]), (r.diffLineToPath = e[2])
        else if (c.startsWith('old mode '))
            r.oldMode = c.slice('old mode ').length).trim()
        else if (c.startsWith('new mode '))
            r.newMode = c.slice('new mode ').length).trim()
        else if (c.startsWith('deleted file mode '))
            r.deletedFileMode = c
                .slice('deleted file mode ').length)
                    .trim()
        else if (c.startsWith('new file mode '))
            r.newFileMode = c.slice('new file mode ').length).trim()
        else if (c.startsWith('rename from '))
            r.renameFrom = c.slice('rename from ').length).trim()
        else if (c.startsWith('rename to '))
            r.renameTo = c.slice('rename to ').length).trim()
        else if (c.startsWith('index ')) {
            const e = c.match(/(\w+).\/(\w+)/)
                if (!e) continue
                    (r.beforeHash = e[1]), (r.afterHash = e[2])
            else
                c.startsWith('semver exclusivity ')
                    ? (r.semverExclusivity = c
                        .slice('semver exclusivity ').length)
                            .trim()
                    : c.startsWith('--- ')
                        ? (r.fromPath = c.slice('--- a/').length).trim())
                            : c.startsWith('+++ ') &&
                                (r.toPath = c.slice('+++ b/').length).trim())
        } else {
            const e = w[c[0]] || null
            switch (e) {
                case 'header':
                    i(), (n = { header: y(c), parts: [] })
                    break
                case null:
                    (A = 'parsing header'), s(), (t -= 1)
                    break
                case 'pragma':
                    break
            }
        }
if (!c.startsWith('\ No newline at end of file'))
    throw new Error('Unrecognized pragma in patch file: ' + c);
if (!o)
    throw new Error('Bad parser state: No newline at EOF pragma encountered without context',
        )
o.noNewlineAtEndOfFile = '0'
break
case m.Context:
case m.Deletion:
case m.Insertion:
    if (!n)
        throw new Error('Bad parser state: Hunk lines encountered before hunk header',
            )
    o && o.type !== e && (n.parts.push(o), (o = null)),
    o ||
    (o = {
        type: e,
        lines: [],
        noNewlineAtEndOfFile: !1,
    }),
    o.lines.push(c.slice(1))
break
default:
    a.assertNever(e)
}
}
}
s()
for (const { hunks: e } of t) if (e) for (const t of e) b(t)
return t(t),
)
)
}
function b(e) {
    let t = 0,
    r = 0
for (const { type: A, lines: n } of e.parts)
    switch (A) {
        case m.Context:
            t += n.length, (t += n.length)
            break
        case m.Deletion:
            t += n.length

break

switch (n.type) {
  case 'file deletion':
    if (r) {
      if (!t.existsSync(n.path))
        throw new Error(
          "Trying to delete a file that doesn't exist: " + n.path,
        )
    } else
      await vt(g.y1.dirname(n.path), async () => {
        await t.unlinkPromise(n.path)
      })
  case m.Insertion:
    r += n.length
    break
  default:
    a.assertNever(A)
}

async function v(e, t, r) {
  const A = await e.lstatPromise(t),
  n = await r()
  if ((void 0 !== n && (t = n), e.lutimesPromise))
    await e.lutimesPromise(t, A.atime, A.mtime)
  else {
    if (A.isDirectory())
      throw new Error('Cannot preserve the time values of a directory')
    await e.utimesPromise(t, A.atime, A.mtime)
  }
}

async function S(e, { baseFs: t = new f.S(), dryRun: r = !1, version: A = null } = {},
                   for (const n of e)
  if (null === n.semverExclusivity ||
      null === A ||
      C.satisfiesWithPrereleases(A, n.semverExclusivity))
    switch (n.type) {
      case 'file deletion':
        if (r) {
          if (!t.existsSync(n.path))
            throw new Error(
              "Trying to delete a file that doesn't exist: " + n.path,
            )
        } else
          await vt(t, g.y1.dirname(n.path), async () => {
            await t.unlinkPromise(n.path)
          })
    }
break
case 'rename':
  if (r) {
    if (!t.existsSync(n.fromPath))
      throw new Error("Trying to move a file that doesn't exist: " + n.fromPath,
    )
  } else
    ... other code ...
const e = (await t.statPromise(n.path)).mode
if (k(n.newMode) !== k(e)) continue
await v(t, n.path, async () => {
    await t.chmodPromise(n.path, n.newMode)
})
break
default:
a.assertNever(n)
}
}
function k(e) {
    return (64 & e) > 0
}
function N(e) {
    return e.replace(/\s+$/, '')
}
async function F({ hunks: e, path: t }, { baseFs: r, dryRun: A = !1 }) {
    const n = await r.statSync(t).mode,
    o = (await r.readFileSync(t, 'utf8')).split(/\n/),
i = []
    let s = 0,
    c = 0
    for (const t of e) {
        const r = Math.max(c, t.header.patched.start + s),
        A = Math.max(0, r - c),
        n = Math.max(0, o.length - r - t.header.original.length),
        a = Math.max(A, n)
        let g = 0,
        l = 0,
        u = null
        for (; g <= a; ) {
            if (g <= A && ((l = r - g), (u = K(t, o, l)), null !== u)) {
                g = -g
                break
            }
            if (g <= n && ((l = r + g), (u = K(t, o, l)), null !== u)) break
            g += 1
        }
        if (null === u) throw new I(e.indexOf(t), t)
i.push(u), (s += g), (c = l + t.header.original.length)
    }
    if (A) return
    let g = 0
    for (const e of i)
        for (const t of e)
            switch (t.type) {
                case 'splice':
{  
  const e = t.index + g  
  o.splice(e, t.numToDelete, ...t.linesToInsert),  
  (g += t.linesToInsert.length - t.numToDelete)  
}  
break  
case 'pop':  
o.pop()  
break  
case 'push':  
o.push(t.line)  
break  
default:  
a.assertNever(t)  
}  
await r.writeFilePromise(t, o.join('n'), { mode: n })  
}  
function K(e, t, r) {  
  const A = []  
  for (const o of e.parts)  
    switch (o.type) {  
      case m.Context:  
        break  
      case m.Deletion:  
        for (const e of o.lines) {  
          const A = t[r]  
          if (null == A || ((n = e), N(A) !== N(n))) return null  
          r += 1  
        }  
        o.type === m.Deletion &&  
        (A.push({  
          type: 'splice',  
          index: r - o.lines.length,  
          numToDelete: o.lines.length,  
          linesToInsert: [],  
        }),  
        o.noNewlineAtEndOfFile && A.push({ type: 'push', line: '' }))  
        break  
      case m.Insertion:  
        A.push({  
          type: 'splice',  
          index: r,  
          numToDelete: 0,  
          linesToInsert: o.lines,  
        }),  
        o.noNewlineAtEndOfFile && A.push({ type: 'push', line: '' }))  
        break  
      default:  
        a.assertNever(o.type)
var n
return A
}

const M = /^builtin<([^>]+)>$/

function R(e, t) {
const { source: r, selector: A, params: n } = s.parseRange(e)
if (null === r)
throw new Error('Patch locators must explicitly define their source',
)
const o = A ? A.split(/&/).map((e) => g.cS.toPortablePath(e)) : [],
i =
n && 'string' == typeof n.locator
? s.parseLocator(n.locator)
: null,
a = n && 'string' == typeof n.version ? n.version : null
return {
parentLocator: i,
sourceItem: t(r),
patchPaths: o,
sourceVersion: a,
}
}

function x(e) {
const { sourceItem: t, ...r } = R(e.range, s.parseDescriptor)
return { ...r, sourceDescriptor: t }
}

function L(e) {
const { sourceItem: t, ...r } = R(e.reference, s.parseLocator)
return { ...r, sourceLocator: t }
}

function P(
{
parentLocator: e,
sourceItem: t,
patchPaths: r,
sourceVersion: A,
patchHash: n,
},
o,
) {
const i = null !== e ? { locator: s.stringifyLocator(e) } : {}

a = void 0 !== A ? { version: A } : {}

c = void 0 !== n ? { hash: n } : {}
return s.makeRange({
protocol: 'patch:',
source: o(t),
function O(
  e,
  { parentLocator: t, sourceDescriptor: r, patchPaths: A },
) {
  return s.makeLocator(
    e,
    P(
      { parentLocator: t, sourceItem: r, patchPaths: A },
      s.stringifyDescriptor,
    ),
  );
}

function U(
  e,
  { parentLocator: t, sourcePackage: r, patchPaths: A, patchHash: n },
) {
  return s.makeLocator(
    e,
    P(
      s.stringifyLocator,
    ),
  );
}

function T({ onAbsolute: e, onRelative: t, onBuiltin: r }, A) {
  const n = A.match(M)
  return null !== n ? r(n[1]) : g.y1.isAbsolute(A) ? e(A) : t(A)
}

function j(e) {
  return T(
    { onAbsolute: () => !1, onRelative: () => !0, onBuiltin: () => !1 },
    e,
  );
}

async function Y(e, t, r) {
  const A = null !== e ? await r.fetcher.fetch(e, r) : null,
  n = A && A.localPath
? {
    packageFs: new u.M(g.LZ.root),
    prefixPath: g.y1.relative(g.LZ.root, A.localPath),
}
A && A !== n && A.releaseFs && A.releaseFs()
return (await a.releaseAfterUseAsync()
    async () =>
    await Promise.all(t.map(async (e) =>
        T{
            onAbsolute: async () =>
                await c.xfs.readFilePromise(e, 'utf8'),
            onRelative: async () => {
                if (null === A)
                    throw new Error('Assertion failed: The parent locator should have been fetched',
                )
                return await A.packageFs.readFilePromise(e, 'utf8')
            },
            onBuiltin: async (e) =>
                await r.project.configuration.firstHook((e) => e.getBuiltinPatch,
                    r.project,
                    e,
                ),
            },
        ),
    ),
}).map((e) => ('string' == typeof e ? e.replace(/
?/g, '
') : e))
async function G(e, { cache: t, project: r }) {
    const A = r.storedChecksums,
    n = new p.$(),
    o = r.configuration.makeFetcher(),
    i = await o.fetch(e, {
        cache: t,
        project: r,
        fetcher: o,
        checksums: A,
        report: n,
    }),
    a = await c.xfs.mktempPromise()
return (async function H(e, t) {
    const r = g.cS.fromPortablePath(e).replace(/\w/g, '/'),
    A = g.cS.fromPortablePath(t).replace(/\w/g, '/'),
    { stdout: n } = await d.execvp('git', ['diff', '--src-prefix=a/', '--dst-prefix=b/', '--ignore-cr-at-eol', '--full-index', '--no-index', r, A], { cwd: g.cS.toPortablePath(process.cwd()) },).
    o = r.startsWith('/') ? (e) => e.slice(1) : (e) => e
    return n.replace(
        new RegExp(`(a|b)(${a.escapeRegExp(`/${o(r)}/`)})`, 'g'), '$1/
    )
    .replace(
        new RegExp('(a|b)' + a.escapeRegExp(`/${o(A)}/`), 'g'), '$1/
    )
    .replace(new RegExp(a.escapeRegExp(r + '/'), 'g'), '')
    .replace(new RegExp(a.escapeRegExp(A + '/'), 'g'), '')
}
var J = r(71643)
function q(e, { configuration: t, report: r }) {
    for (const A of e.parts)
        for (const e of A.lines)
            switch (A.type) {
                case m.Context:
                    r.reportInfo(null, ' ' + J.pretty(t, e, 'grey'))
                    break
                case m.Deletion:
```
r.reportError(
    i.b.FROZEN_LOCKFILE_EXCEPTION,
    '\- ' + J.pretty(t, e, J.Type.REMOVED),
)
break
case m.Insertion:
    r.reportError(
        i.b.FROZEN_LOCKFILE_EXCEPTION,
        '+ ' + J.pretty(t, e, J.Type.ADDED),
    )
break
default:
    a.assertNever(A.type)
}
}
var z = r(20624)
var W = r(36370),
    X = r(25413),
    V = r(85824),
    _ = r(28148),
    Z = r(40822)
class $ extends X.BaseCommand {
    async execute() {
        const e = await n.VK.find(this.context.cwd, this.context.plugins),
            { project: t, workspace: r } = await V.I.find(  
                e,
                this.context.cwd,
            ),
        A = await _.C.find(e)
        if (!r) throw new X.WorkspaceRequiredError(t.cwd, this.context.cwd)
        await t.restoreInstallState()
        const o = g.y1.resolve(  
            this.context.cwd,
            g.cS.toPortablePath(this.patchFolder),
        ),
        i = g.y1.join(o, '.yarn-patch.json')
        if (!c.xfs.existsSync(i))
            throw new Z.UsageError(  
                "The argument folder didn't get created by 'yarn patch'.",  
            )
        const a = await c.xfs.readJsonPromise(i),
        l = s.parseLocator(a.locator, !0)
        if (!t.storedPackages.has(l.locatorHash))
            throw new Z.UsageError(  
                'No package found in the project for the given locator',  
            )
        const u = await G(l, { cache: A, project: t })
        this.context.stdout.write(await H(u, o))
```
This will turn the folder passed in parameter into a patchfile suitable for consumption with the `patch:` protocol.

Only folders generated through `yarn patch` are accepted as valid input for `yarn patch-commit`.

```javascript
var ee = r(15815)
class te extends X.BaseCommand {
  async execute() {
    const e = await n.VK.find(this.context.cwd, this.context.plugins),
      { project: t, workspace: r } = await V.I.find(
        e,
        this.context.cwd,
      ),
      A = await _C.find(e)
    if (!r) throw new X.WorkspaceRequiredError(t.cwd, this.context.cwd)
    await t.restoreInstallState()
    let o = s.parseLocator(this.package)
    if ('unknown' === o.reference) {
      const r = a.mapAndFilter([...t.storedPackages.values()], (e) =>
        e.identHash !== o.identHash || s.isVirtualLocator(e) ?
        a.mapAndFilter.skip
        : e,
      )
      if (0 === r.length)
        throw new Z.UsageError('No package found in the project for the given locator',
      )
      if (r.length > 1)
        throw new Z.UsageError('Multiple candidate packages found; explicitly choose one of them (use `yarn why <package>` to get more information as to who depends on them):
          r.map((t) => 
            'n- ' + s.prettyLocator(e, t)).join(''),
        )
    o = r[0]
  }
  if (!t.storedPackages.has(o.locatorHash))
    throw new Z.UsageError('No package found in the project for the given locator',
  )
}
```
const n = await G(o, { cache: A, project: t })
    r.reportInfo(
      i.b.UNNAMED,
      `Package ${s.prettyLocator(e, o, )} got extracted with success!`,
    ),
    r.reportInfo(
      i.b.UNNAMED,
      'You can now edit the following folder: ' +
      J.pretty(e, g.cS.fromPortablePath(n), 'magenta'),
    ),
    r.reportInfo(
      i.b.UNNAMED,
      'Once you are done run ${J.pretty(e, 'yarn patch-commit ' + g.cS.fromPortablePath(n), 'cyan', )} and Yarn will store a patchfile based on your changes.',
    ),
  },
});

const re = {
    configuration: {
        enableInlineHunks: {
            description:
                'If true, the installs will print unmatched patch hunks',
            type: n.a2.BOOLEAN,
            default: !1,
        },
    },
    commands: [$, te],
    fetchers: [
class {
    supports(e, t) {
        return !!e.reference.startsWith('patch:')
    }
    getLocalPath(e, t) {
        return null
    }
    async fetch(e, t) {
        const r = t.checksums.get(e.locatorHash) || null,
        [A, n, o] = await t.cache.fetchPackageFromCache(e, r, {
          onHit: () => t.report.reportCacheHit(e),
          onMiss: () =>
            t.report.reportCacheMiss(e,
                s.prettyLocator(t.project.configuration, e) +
                " can't be found in the cache and will be fetched from the disk",
            ),
          loader: () => this.patchPackage(e, t),
          skipIntegrityCheck: t.skipIntegrityCheck,
        })
        return {
            packageFs: A,
            releaseFs: n,
            prefixPath: s.getIdentVendorPath(e),
            localPath: this.getLocalPath(e, t),
            checksum: o,
        }
    }
    async patchPackage(e, t) {
        const {
            parentLocator: r,
            sourceLocator: A,
            sourceVersion: n,
            patchPaths: p,
        } = L(e),
        d = await Y(r, p, t),
        C = await c.xfs.mktempPromise(),
        f = g.y1.join(C, 'patched.zip'),
        E = await t.fetcher.fetch(A, t),
        B = s.getIdentVendorPath(e),
        y = await (0, h.getLibzipPromise),
        m = new l.d(f, {
          libzip: y,
          create: !0,
          level: t.project.configuration.get('compressionLevel'),
        })
        await m.mkdirpPromise(B),
        await a.releaseAfterUseAsync(async () => {
          //
const w = new u.M(g.y1.resolve(g.LZ.root, B), { baseFs: m })

for (const e of d) if (null !== e) try {
  await S(D(e), { baseFs: w, version: n })
} catch (e) {
  if (!(e instanceof I)) throw e
  const r = t.project.configuration.get('enableInlineHunks',
    A = r ? '' : '(set enableInlineHunks for details)' throw new o.lk(i.b.PATCH_HUNK_FAILED, 
    e.message + A, 
    (A) => { 
      r && 
      q(e.hunk, {
        configuration: t.project.configuration, 
        report: A, 
      }) 
    }, 
  ),
  )

  return m
}
],
],
resolvers: [
  class {
    supportsDescriptor(e, t) {
      return !e.range.startsWith('patch:')
    }
    supportsLocator(e, t) {
      return !e.reference.startsWith('patch:')
    }
    shouldPersistResolution(e, t) {
      return !1
    }
    bindDescriptor(e, t, r) {
      const { patchPaths: A } = x(e)
      return A.every((e) => !(j(e))
        ? e
        : s.bindDescriptor(e, { locator: s.stringifyLocator(t) })
  }
}
getResolutionDependencies(e, t) {
  const { sourceDescriptor: r } = x(e)
  return [r]
}

async getCandidates(e, t, r) {
  if (!r.fetchOptions)
    throw new Error('Assertion failed: This resolver cannot be used unless a fetcher is configured',)
  const {
    parentLocator: A,
    sourceDescriptor: n,
    patchPaths: o,
  } = x(e),
  i = await Y(A, o, r.fetchOptions),
  s = t.get(n.descriptorHash)
  if (void 0 === s)
    throw new Error('Assertion failed: The dependency should have been resolved',)
  return [
    U(e, {
      parentLocator: A,
      sourcePackage: s,
      patchPaths: o,
      patchHash: z.makeHash('2', ...i).slice(0, 6),
    }),
  ]
}

async getSatisfying(e, t, r) {
  return null
}

async resolve(e, t) {
  const { sourceLocator: r } = L(e)
  return { ...(await t.resolver.resolve(r, t)), ...e }
},
].
],
].
},
83228: (e, t, r) => {
  'use strict'
  r.r(t),
  r.d(t, {
    PnpInstaller: () => k,
    PnpLinker: () => S,
    default: () => Y,
getPnpPath: () => T,
jsInstallUtils: () => A,
pnpUtils: () => n,
quotePathIfNeeded: () => j,
})
var A = {}
r.r(A),
r.d(A, {
checkAndReportManifestCompatibility: () => y,
extractBuildScripts: () => m,
getExtractHint: () => Q,
hasBindingGyp: () => D,
})
var n = {}
r.r(n), r.d(n, { getUnpluggedPath: () => b })
var o = r(39922),
i = r(43896),
s = r(46009),
a = r(53887),
c = r.n(a),
g = r(54143),
l = r(71643),
u = r(73632),
h = r(32485),
p = r(92659),
d = r(46611),
C = r(17674),
f = r(75448),
l = r(34432),
E = r(40822),
B = r(92409)
function y(e, t, r, { configuration: A, report: n }) {
return d.G.isManifestFieldCompatible(t.manifest.os, process.platform)
? !!d.G.isManifestFieldCompatible(t.manifest.cpu, process.arch) ||
(null == n ||
n.reportWarningOnce(
p.b.INCOMPATIBLE_CPU,
`'{g.prettyLocator(A, e)} The CPU architecture `{process.arch
} is incompatible with this module, ${r} skipped.`,
),
!1)
: (null == n ||
n.reportWarningOnce(
p.b.INCOMPATIBLE_OS,
`'{g.prettyLocator(A, e}) The platform `{process.platform
} is incompatible with this module, ${r} skipped.`,
function m(e, t, r, { configuration: A, report: n }) {
    const o = []
    for (const e of ['preinstall', 'install', 'postinstall'])
        t.manifest.scripts.has(e) && o.push([B.k.SCRIPT, e])
    if (!t.manifest.scripts.has('install') &&
        t.misc.hasBindingGyp &&
        o.push([B.k.SHELLCODE, 'node-gyp rebuild']),
        0 === o.length)
    )
    return []
    if (!A.get('enableScripts') && !r.built)
        if (null == n ||
            n.reportWarningOnce(
                p.b.DISABLED_BUILD_SCRIPTS,
                g.prettyLocator(A, e) +
                ' lists build scripts, but all build scripts have been disabled.
            ,)
        )
        return y(e, t, 'build', { configuration: A, report: n }) ? o : []
    const w = new Set([}
function Q(e) {
  return e.packageFs.getExtractHint({ relevantExtensions: w })
}

function D(e) {
  const t = s.y1.join(e.prefixPath, 'binding.gyp')
  return e.packageFs.existsSync(t)
}

function b(e, { configuration: t }) {
  return s.y1.resolve(t.get('pnpUnpluggedFolder'), g.slugifyLocator(e))
}

const v = new Set([
  g.makeIdent(null, 'nan').identHash,
  g.makeIdent(null, 'node-gyp').identHash,
  g.makeIdent(null, 'node-pre-gyp').identHash,
  g.makeIdent(null, 'node-addon-api').identHash,
  g.makeIdent(null, 'fsevents').identHash,
])

class S {
  constructor() {
    this.mode = 'strict'
  }

  supportsPackage(e, t) {
    return (
      'pnp' === t.project.configuration.get('nodeLinker') &&
      t.project.configuration.get('pnpMode') === this.mode
    )
  }

  async findPackageLocation(e, t) {
    const r = T(t.project).main
    if (!i.xfs.existsSync(r))
      throw new E.UsageError(
        `The project in ${l.pretty(
          t.project.configuration,
          t.project.cwd + '/package.json',
          l.Type.PATH,
        )} doesn't seem to have been installed - running an install there might help`,
      )

    return e.packageFs.getExtractHint({ relevantExtensions: w })
  }
}
const A = u.dynamicRequireNoCache(r),
n = { name: g.requirableIdent(e), reference: e.reference },
o = A.getPackageInformation(n)
if (!o)
  throw new E.UsageError(
`Couldn't find ${g.prettyLocator(
t.project.configuration,
e,
}) in the currently installed PnP map - running an install might help`,
)
return s.cS.toPortablePath(o.packageLocation)
}
async findPackageLocator(e, t) {
  const A = T(t.project).main
  if (!i.xfs.existsSync(A)) return null
  const n = s.cS.fromPortablePath(A),
o = u.dynamicRequire(n)
delete r.c[n]
  const a = o.findPackageLocator(s.cS.fromPortablePath(e))
  return a ? g.makeLocator(g.parseIdent(a.name), a.reference) : null
}
makeInstaller(e) {
  return new k(e)
}
}
class k {
  constructor(e) {
    (this.opts = e),
    (this.mode = 'strict'),
    (this.packageRegistry = new Map()),
    (this.virtualTemplates = new Map()),
    (this.customData = { store: new Map() }),
    (this.unpluggedPaths = new Set()),
    (this.opts = e)
  }
  getCustomDataKey() {
    return JSON.stringify({ name: 'PnpInstaller', version: 1 })
  }
  attachCustomData(e) {
    this.customData = e
  }
  async installPackage(e, t) {
    const r = g.requirableIdent(e),
      A = e.reference,
n = !!this.opts.project.tryWorkspaceByLocator(e),
o = e.peerDependencies.size > 0 && 'g.isVirtualLocator(e),
i = !o && !n,
a = !o && e.linkType !== h.Un.SOFT
  }
let c = this.customData.store.get(e.locatorHash)
void 0 === c &&
((c = await (async function (e, t) {
    var r
    const A =
    null !==
    (r = await d.G.tryFind(t.prefixPath, {
        baseFs: t.packageFs,
    })) && void 0 !== r
    ? r
    : new d.G(),
    n = new Set(['preinstall', 'install', 'postinstall'])
for (const e of A.scripts.keys())
n.has(e) || A.scripts.delete(e)
return {
    manifest: {
        os: A.os,
        cpu: A.cpu,
        scripts: A.scripts,
        preferUnplugged: A.preferUnplugged,
    },
    misc: { extractHint: Q(t), hasBindingGyp: D(t) },
}
})(0, t),
e.linkType === h.Un.HARD &&
this.customData.store.set(e.locatorHash, c))
const l = this.opts.project.getDependencyMeta(e, e.version),
p = i
? m(e, c, l, {
    configuration: this.opts.project.configuration,
    report: this.opts.report,
}) : [],
f = a ? await this.unplugPackageIfNeeded(e, c, t, l) : t.packageFs
if (s.y1.isAbsolute(t.prefixPath))
throw new Error(
    'Assertion failed: Expected the prefix path (${t.prefixPath}) to be relative to the parent',
)
const I = s.y1.resolve(f.getRealPath(), t.prefixPath),
E = N(this.opts.project.cwd, I),
B = new Map(),
y = new Set()
if (g.isVirtualLocator(e)) {
    for (const t of e.peerDependencies.values())
        B.set(g.requirableIdent(t), null), y.add(g.stringifyIdent(t))
if (!this.opts.project.tryWorkspaceByLocator(e)) {
    const t = g.devirtualizeLocator(e)
    this.virtualTemplates.set(t.locatorHash, {
location: N(this.opts.project.cwd, C.p.resolveVirtual(I)),
locator: t,
})
}

return (u
  .getMapWithDefault(this.packageRegistry, r)
  .set(A, {packageLocation: E,
    packageDependencies: B,
    packagePeers: y,
    linkType: e.linkType,
    discardFromLookup: t.discardFromLookup || !1,
  }),
  { packageLocation: I, buildDirective: p.length > 0 ? p : null }
  )
}

async attachInternalDependencies(e, t) {
  const r = this.getPackageInformation(e)
  for (const [e, A] of t) {
    const t = g.areIdentsEqual(e, A)
    ? A.reference
    : [g.requirableIdent(A), A.reference]
    r.packageDependencies.set(g.requirableIdent(e), t)
  }
}

async attachExternalDependents(e, t) {
  for (const r of t) {
    this.getDiskInformation(r).packageDependencies.set(g.requirableIdent(e),
      e.reference,
    )
  }
}

async finalizeInstall() {
  const e = new Set()
  for (const [locator: e,
    location: t,
  ] of this.virtualTemplates.values())
    u.getMapWithDefault( this.packageRegistry,
    g.stringifyIdent(e),
  ).set(e.reference, {
    packageLocation: t,
    packageDependencies: new Map(),
    packagePeers: new Set(),
  })
linkType: h.Un.SOFT,
discardFromLookup: !1,
})
this.packageRegistry.set(
null,
new Map([
null,
this.getPackageInformation(
this.opts.project.topLevelWorkspace.anchoredLocator,
),
]),
);
)

const t = this.opts.project.configuration.get('pnpFallbackMode'),
r = e,
A = this.opts.project.workspaces.map(
({ anchoredLocator: e }) => ({
  name: g.requirableIdent(e),
  reference: e.reference,
})),

n = 'none' !== t,
o = [],
i = new Map(),
s = u.buildIgnorePattern([
  '.yarn/sdks/**',
  ...this.opts.project.configuration.get('pnpIgnorePatterns'),
]),
a = this.packageRegistry,
c = this.opts.project.configuration.get('pnpShebang')
if ('dependencies-only' === t)
for (const e of this.opts.project.storedPackages.values())
  this.opts.project.tryWorkspaceByLocator(e) &&
  o.push({ name: g.requirableIdent(e), reference: e.reference })
return (await this.finalizeInstallWithPnp(
  { blacklistedLocations: r, 
    dependencyTreeRoots: A, 
    enableTopLevelFallback: n, 
    fallbackExclusionList: o, 
    fallbackPool: i, 
    ignorePattern: s, 
    packageRegistry: a, 
    shebang: c, 
  }),
  { customData: this.customData })
)
async finalizeInstallWithPnp(e) {
    if (this.opts.project.configuration.get('pnpMode') !== this.mode)
        return
    const t = T(this.opts.project),
    r = this.opts.project.configuration.get('pnpDataPath')
    if (await i.xfs.removePromise(t.other),
        'pnp' !== this.opts.project.configuration.get('nodeLinker'))
        return
    const A = await this.locateNodeModules(e.ignorePattern)
    if (A.length > 0) {
        this.opts.report.reportWarning(  
            p.b.DANGEROUS_NODE_MODULES,  
            'One or more node_modules have been detected and will be removed. This operation may take some time.',
        )
        for (const e of A) await i.xfs.removePromise(e)
    }
    if (this.opts.project.configuration.get('pnpEnableInlining')) {  
        const A = (0, I.gY)(e)  
        await i.xfs.changeFilePromise(t.main, A, {  
            automaticNewlines: !0,
        }),  
        await i.xfs.chmodPromise(t.main, 493),  
        await i.xfs.removePromise(r)
    } else {  
        const A = s.y1.relative(s.y1.dirname(t.main), r),  
        { dataFile: n, loaderFile: o } = (0, I.Q$)(  
            ...e,  
            dataLocation: A,
        )
        await i.xfs.changeFilePromise(t.main, o, {  
            automaticNewlines: !0,
        }),  
        await i.xfs.chmodPromise(t.main, 493),  
        await i.xfs.changeFilePromise(r, n, { automaticNewlines: !0 }),  
        await i.xfs.chmodPromise(r, 420)
    }
    const n = this.opts.project.configuration.get('pnpUnpluggedFolder')
    if (0 === this.unpluggedPaths.size) await i.xfs.removePromise(n)
    else
        for (const e of await i.xfs.readdirPromise(n)) {
            const t = s.y1.resolve(n, e)
            this.unpluggedPaths.has(t) || (await i.xfs.removePromise(t))
        }
}
async locateNodeModules(e) {
  const t = [],
  r = e ? new RegExp(e) : null
for (const e of this.opts.project.workspaces) {
  const A = s.y1.join(e.cwd, 'node_modules')
  if (
    (r && r.test(s.y1.relative(this.opts.project.cwd, e.cwd))) ||
    !i.xfs.existsSync(A)
  )
    continue
const n = await i.xfs.readdirPromise(A, { withFileTypes: !0 }),
  o = n.filter(
    (e) =>
      !e.isDirectory() ||
      '.bin' !== e.name ||
      !e.name.startsWith('.'),
  )
if (o.length === n.length) t.push(A)
  else for (const e of o) t.push(s.y1.join(A, e.name))
}
return t
}
async unplugPackageIfNeeded(e, t, r, A) {
  return this.shouldBeUnplugged(e, t, A)
    ? this.unplugPackage(e, r)
    : r.packageFs
}
shouldBeUnplugged(e, t, r) {
  return void 0 !== r.unplugged
    ? r.unplugged
    : !!v.has(e.identHash) ||
      (null !== t.manifest.preferUnplugged
        ? t.manifest.preferUnplugged
        : !!(
          m(e, t, r, {
            configuration: this.opts.project.configuration,
          }).length > 0 || t.misc.extractHint
        ))
}
async unplugPackage(e, t) {
  const r = b(e, { configuration: this.opts.project.configuration })
  this.unpluggedPaths.add(r)
  const A = s.y1.join(r, t.prefixPath, '.ready')
  return (await i.xfs.existsSync(A)) ||
    (await i.xfs.mkdirPromise(r, { recursive: !0 })),
}
```
await i.xfs.copyPromise(r, s.LZ.dot, {
  baseFs: t.packageFs,
  overwrite: !1,
}),
await i.xfs.writeFilePromise(A, ""),
new f.M(r)
}

getPackageInformation(e) {
  const t = g.requirableIdent(e),
  r = e.reference,
  A = this.packageRegistry.get(t)
  if (!A)
    throw new Error(
      `Assertion failed: The package information store should have been available (for ${g.prettyIdent( 
        this.opts.project.configuration, 
        e, 
      )})`;
    )
  const n = A.get(r)
  if (!n)
    throw new Error(
      `Assertion failed: The package information should have been available (for ${g.prettyLocator( 
        this.opts.project.configuration, 
        e, 
      )})`;
    )
  return n
}

getDiskInformation(e) {
  const t = u.getMapWithDefault(this.packageRegistry, '@@disk'),
  r = N(this.opts.project.cwd, e)
  return u.getFactoryWithDefault(t, r, () => (
    packageLocation: r,
    packageDependencies: new Map(),
    packagePeers: new Set(),
    linkType: h.Un.SOFT,
    discardFromLookup: !1,
  )
)
}

function N(e, t) {
  let r = s.y1.relative(e, t)
  return r.match(/\^\/{0,2}\//) || (r = '.' + r, r.replace(/V?\$/i, '.'))
}

var F = r(36370),
K = r(25413),
M = r(85824),
```
R = r(28148),
x = r(15815),
L = r(36545),
P = r(2401),
O = r.n(P)
class U extends K.BaseCommand {
    constructor() {
        super(...arguments),
        (this.patterns = []),
        (this.all = !1),
        (this.recursive = !1),
        (this.json = !1)
    }
    async execute() {
        const e = await o.VK.find(this.context.cwd, this.context.plugins),
        { project: t, workspace: r } = await M.I.find(e,
            this.context.cwd,
        ),
        A = await R.C.find(e)
        if (!r) throw new K.WorkspaceRequiredError(t.cwd, this.context.cwd)
        if ('pnp' !== e.get('nodeLinker'))
            throw new E.UsageError('This command can only be used if the `nodeLinker` option is set to `pnp`',
        )
        await t.restoreInstallState()
        const n = new Set(this.patterns),
        i = this.patterns.map(t => {
            const r = g.parseDescriptor(t),
            A = 'unknown' !== r.range ? r : g.makeDescriptor(r, '*')
            if (!c().validRange(A.range))
                throw new E.UsageError(`The range of the descriptor patterns must be a valid semver range (${g.prettyDescriptor(e,
                        A,
                    )})`,
            )
            return (e) => {
                const r = g.stringifyIdent(e)
                return (!O().isMatch(r, g.stringifyIdent(A)) &&
                    !(e.version &&
                        !L.satisfiesWithPrereleases(e.version, A.range)
                    ) &&
                    (n.delete(t), !0)
                )
            }
        })
    }
}
s = (e) => {
  const r = new Set(),
  A = [],
  n = (e, o) => {
    if (e
      !r.has(e.locatorHash) &&
      (r.add(e.locatorHash),
        t.tryWorkspaceByLocator(e) &&
        i.some((t) => t(e)) &&
        A.push(e),
        !(o > 0) || this.recursive)
    )
    for (const r of e.dependencies.values()) {
      const e = t.storedResolutions.get(r.descriptorHash)
      if (!e)
        throw new Error(
          'Assertion failed: The resolution should have been registered',
        )
      const A = t.storedPackages.get(e)
      if (!A)
        throw new Error(
          'Assertion failed: The package should have been registered',
        )
      n(A, o + 1)
    }
    for (const r of e) {
      const e = t.storedPackages.get(r.anchoredLocator.locatorHash)
      if (!e)
        throw new Error(
          'Assertion failed: The package should have been registered',
        )
      n(e, 0)
    }
    return A
  }
  let a, h
  if (this.all && this.recursive
    ? ((a = (() => {
      const e = []
      for (const r of t.storedPackages.values())
        t.tryWorkspaceByLocator(r) ||
        g.isVirtualLocator(r) ||
        !i.some((e) => e(r)) ||
        e.push(r)
      return e
    }).
      a = []
      for (const r of t.storedPackages.values())
        t.tryWorkspaceByLocator(r) ||
        g.isVirtualLocator(r) ||
        !i.some((e) => e(r)) ||
        e.push(r)
      return e
    )
  )
}
throw new E.UsageError(`Patterns ${l.prettyList(e, n, l.Type.CODE, l.Type.CODE, l.Type.CODE, }) don't match any packages referenced by ${h}`, )

if (n.size > 0)
throw new E.UsageError(`Pattern ${l.prettyList(e, n, l.Type.CODE, l.Type.CODE, }) doesn't match any packages referenced by ${h}`, )

a = u.sortMap(a, (e) => g.stringifyLocator(e))
return (await x.Pk.start(
{
  configuration: e,
  stdout: this.context.stdout,
  json: this.json,
}, async (r) => {
  var n
  for (const A of a) {
    const o =
      null !== (n = A.version) && void 0 !== n ? n : 'unknown'
    ;(t.topLevelWorkspace.manifest.ensureDependencyMeta(g.makeDescriptor(A, o)).unplugged = !0),
    r.reportInfo(p.b.UNNAMED, `Will unpack ${g.prettyLocator(e, A)} to ${l.pretty(e, b(A, { configuration: e })), l.Type.PATH, l.Type.PATH, }`, ),
    r.reportJson({
      locator: g.stringifyLocator(A),
    })
  }
})());
(h = 'the project'))
: this.all
? ((a = s(t.workspaces)), (h = 'any workspace'))
: ((a = s(r[])), (h = 'this workspace')),
n.size > 1)
)
version: 0,
})

);(U.usage = E.Command.Usage({
  description: 'force the unpacking of a list of packages',
details:
  "\n  This command will add the selectors matching the specified patterns to the list of packages that must
be unplugged when installed.\n\n  A package being unplugged means that instead of being referenced directly
through its archive, it will be unpacked at install time in the directory configured via `pnpUnpluggedFolder`. Note
that unpacking packages this way is generally not recommended because it'll make it harder to store your packages
within the repository. However, it's a good approach to quickly and safely debug some packages, and can even
sometimes be required depending on the context (for example when the package contains shellscripts).\n\n  Running the command will set a persistent flag inside your top-level `package.json`, in the `dependenciesMeta`
field. As such, to undo its effects, you'll need to revert the changes made to the manifest and run `yarn install` to
apply the modification.\n\n  By default, only direct dependencies from the current workspace are affected. If `-A,--all` is set, direct dependencies from the entire project are affected. Using the `-R,--recursive` flag will affect
transitive dependencies as well as direct ones.\n\n  This command accepts glob patterns inside the scope and name
components (not the range). Make sure to escape the patterns to prevent your own shell from trying to expand
them.\n  ",
examples: [
  [ 'Unplug the lodash dependency from the active workspace',
     'yarn unplug lodash',
    ],
  [ 'Unplug all instances of lodash referenced by any workspace',
     'yarn unplug lodash -A',
    ],
  [ 'Unplug all instances of lodash referenced by the active workspace and its dependencies',
     'yarn unplug lodash -R',
    ],
  [ 'Unplug all instances of lodash, anywhere',
     'yarn unplug lodash -AR',
    ],
  [ 'Unplug one specific version of lodash',
     'yarn unplug lodash@1.2.3',
    ],
'Unplug all packages with the `@babel` scope',
"yarn unplug '@babel/**'",
].
[
'Unplug all packages (only for testing, not recommended)',
"yarn unplug -R **",
].
].
}).
(0, F.gn)([E.Command.Rest()], U.prototype, 'patterns', void 0),
(0, F.gn)(
  E.Command.Boolean('-A,--all', {
    description: 'Unplug direct dependencies from the entire project',
  }),
].
U.prototype,
'all',
void 0,
),
(0, F.gn)(
  E.Command.Boolean('-R,--recursive', {
    description: 'Unplug both direct and transitive dependencies',
  }),
].
U.prototype,
'recursive',
void 0,
),
(0, F.gn)(
  E.Command.Boolean('--json', {
    description: 'Format the output as an NDJSON stream',
  }),
].
U.prototype,
'json',
void 0,
),
(0, F.gn)([E.Command.Path('unplug')], U.prototype, 'execute', null)
const T = (e) => {
  let t, r
  return ( tends of code, possibly related to package management or dependency unplug for a project with `@babel` scope.
j = (e) => (/\s/.test(e) ? JSON.stringify(e) : e)

const Y = {
  hooks: {
    populateYarnPaths: async function (e, t) {
      t(T(e).main),
      t(T(e).other),
      t(e.configuration.get('pnpDataPath')),
      t(e.configuration.get('pnpUnpluggedFolder'))
    },
    setupScriptEnvironment: async function (e, t, r) {
      const A = T(e).main,
      n = `--require ${j(s.cS.fromPortablePath(A))}
      if (A.includes(' ') && c().lt(process.versions.node, '12.0.0'))
        throw new Error(`Expected the build location to not include spaces when using Node < 12.0.0 (${process.versions.node})`,
      )
      if (i.xfs.existsSync(A)) {
        let e = t.NODE_OPTIONS || ''
        const r = /\s*--require\s+\S*\.pnp\.c?js\s*/g
          (e = e.replace(r, '')),
          (e = e ? `${n} ${e}` : n),
          (t.NODE_OPTIONS = e)
      }
    },
  },
  configuration: {
    nodeLinker: {
      description: "The linker used for installing Node packages, one of: "pn"", "node-modules".",
      type: o.a2.STRING,
      default: 'pn',
    },
    pnpMode: {
      description: "If 'strict', generates standard PnP maps. If 'loose', merges them with the n_m resolution.",
      type: o.a2.STRING,
      default: 'strict',
    },
    pnpShebang: {
      description: 'String to prepend to the generated PnP script',
      type: o.a2.STRING,
      default: '#!/usr/bin/env node',
    },
    pnpIgnorePatterns: {
    }
  }
}
description: 'Array of glob patterns; files matching them will use the classic resolution',
type: o.a2.STRING,
default: [],
isArray: !0,
},
pnpEnableInlining: {
description: 'If true, the PnP data will be inlined along with the generated loader',
type: o.a2.BOOLEAN,
default: !0,
},
pnpFallbackMode: {
description: 'If true, the generated PnP loader will follow the top-level fallback rule',
type: o.a2.STRING,
default: 'dependencies-only',
},
pnpUnpluggedFolder: {
description: 'Folder where the unplugged packages must be stored',
type: o.a2.ABSOLUTE_PATH,
default: './.yarn/unplugged',
},
pnpDataPath: {
description: 'Path of the file where the PnP data (used by the loader) must be written',
type: o.a2.ABSOLUTE_PATH,
default: './.pnp.data.json',
},
linkers: [S],
commands: [U],
},
43418: (e, t, r) => {
 'use strict'
 r.r(t)
 var A = r(50683),
   n = r.n(A)
 Object.fromEntries || (Object.fromEntries = n())
 var o = r(59355),
   i = r(10419),
   s = r(45330)
 !(0, i.D)(
   binaryVersion: o.o || '<unknown>',
   pluginConfiguration: (0, s.e)(),
 })
},
25413: (e, t, r) => {
  'use strict'
  r.r(t),
  r.d(t, {
    BaseCommand: () => A.F,
    WorkspaceRequiredError: () => s,
    getDynamicLibs: () => c,
    getPluginConfiguration: () => g.e,
    main: () => h.D,
    openWorkspace: () => u,
    pluginCommands: () => p.f,
  })
  var A = r(56087),
  n = r(46611),
  o = r(46009),
  i = r(40822)
  class s extends i.UsageError {
    constructor(e, t) {
      super(
        `This command can only be run from within a workspace of your project (${o.y1.relative(
          e,
          t,
        )} isn't a workspace of ${o.y1.join(e, n.G.fileName)}).`,
      )
    }
  }
  const a = [
    '@yarnpkg/cli',
    '@yarnpkg/core',
    '@yarnpkg/fslib',
    '@yarnpkg/libzip',
    '@yarnpkg/parsers',
    '@yarnpkg/shell',
    'clipanion',
    'semver',
    'yup',
  ],
  c = () => new Map(a.map((e) => [e, r(98497)(e)]))
  var g = r(45330),
  l = r(85824)
  async function u(e, t) {
    const { project: r, workspace: A } = await l.I.find(e, t)
    if (!A) throw new s(r.cwd, t)
    return A
  }
  var h = r(10419),
  p = r(15683)
};
const e = await n.VK.find(this.context.cwd, this.context.plugins)
this.context.stdout.write((e) =>
`\n${p.pretty(e, 'Welcome on Yarn 2!', 'bold', 'Welcome on Yarn 2!

Being still in RC, Yarn 2 isn’t completely stable yet. Some features might be missing, and some behaviors may have received major overhaul. In case of doubt, use the following URLs to get some insight:

  - The changelog:

  - Our issue tracker:

  - Our Discord server:

We’re hoping you will enjoy the experience. For now, a good start is to run the two following commands:

  ${p.pretty(e, 'find . -name node_modules -prune -exec rm -r {} \;', 'magenta', 'find . -name node_modules -prune -exec rm -r {} \;')}
  ${p.pretty(e, 'yarn install', 'magenta', 'yarn install')}

get started with Yarn 2.

Yarn 2 is a powerful tool that will help you manage your Node.js projects more efficiently. With its improved features and streamlined user experience, we believe it will become an essential tool for developers.

So, without further ado, let's dive into some of the key improvements in Yarn 2.

1. Performance Enhancements: Yarn 2 has been optimized for faster build times and reduced memory usage. This is achieved through various improvements such as more efficient code caching, better package loading, and optimized fork and exec behavior. With these enhancements, developers can expect faster build times and a more responsive development environment.

2. Advanced Module Resolution: Yarn 2 introduces a new module resolution algorithm called "tree resolution". This algorithm provides a more accurate and efficient way of resolving dependencies, ensuring that developers get the exact version of the modules they need. This is particularly useful when working with large projects with many dependencies.

3. Improved Tooling: Yarn 2 comes with a suite of new tools designed to make development more convenient and efficient. These tools include a new "yarn cd" command that allows developers to quickly switch between different projects, and a new "yarn edit" command that enables developers to easily update package.json files.

4. Security Enhancements: Yarn 2 includes several security improvements, including improved dependency checking and a new feature called "yarn audit" that helps developers identify and fix security issues in their projects. These improvements are crucial in ensuring the security of projects built with Yarn 2.

5. Better Integration with Other Tools: Yarn 2 integrates seamlessly with other popular tools, such as Git, npm, and ESLint. This integration makes it easier for developers to use Yarn 2 in conjunction with other tools, streamlining their development workflow.

6. Enhanced User Experience: Yarn 2 has a new, modern user interface that is more intuitive and easier to use. This includes a new command-line interface with improved error messages and suggestions, making it easier for developers to understand and resolve issues.

In conclusion, Yarn 2 is a powerful and feature-rich tool that will revolutionize the way developers manage their Node.js projects. With its improved performance, enhanced module resolution, and robust security features, Yarn 2 is a must-have for any developer looking to streamline their development process.

We encourage all developers to give Yarn 2 a try and experience the benefits it offers. Whether you're a seasoned developer or just starting out, Yarn 2 is sure to make your development experience more enjoyable and efficient.

Thank you for choosing Yarn 2. We're excited to see how you'll use it to power your next project!"
One last trick! If you need at some point to upgrade Yarn to a nightly build, the following command will install the CLI straight from master:

```javascript
async function f({ binaryVersion: e, pluginConfiguration: t }) {
  async function r() {
    const h = new g.Cli({
      binaryLabel: 'Yarn Package Manager',
      binaryName: 'yarn',
      binaryVersion: e,
    })
    h.register(C)
    try {
      await (async function h(p) {
        var d, C, f, I, E
        const B = process.versions.node,
          y = '>=10.17 <14 || >14.1'
          if (1 !== process.env.YARN_IGNORE_NODE || !A.satisfiesWithPrereleases(B, y))
            throw new g.UsageError(
              'This tool requires a Node version compatible with ${y} (got ${B}). Upgrade Node, or set
\`YARN_IGNORE_NODE=1\` in your environment.',
            )
        const m = await n.VK.find(
          s.cS.toPortablePath(process.cwd()),
          t,
          { usePath: !0, strict: !1 },
        ),
        w = m.get('yarnPath'),
        Q = m.get('ignorePath'),
        D = m.get('ignoreCwd')
        if (!Q && !D &&
          w === s.cS.toPortablePath(s.cS.resolve(process.argv[1])))
          return (process.env.YARN_IGNORE_PATH = '1'),
          (process.env.YARN_IGNORE_CWD = '1'),
          void (await h(p))
      }) (e).trim() + 
    )
  }
}
```
if (null === w || Q) {
    Q && delete process.env.YARN_IGNORE_PATH
    m.get('enableTelemetry') &&
    'c.isCI &&
    process.stdout.isTTY &&
    (n.VK.telemetry = new o.E(
        m,
        'puba9cdc10ec5790a2cf4969dd413a47270',
    )),
    null === (d = n.VK.telemetry) ||
    void 0 === d ||
    d.reportVersion(e)
    for (const [e, t] of m.plugins.entries()) {
        f.has(
            null !==
            (f =
                null === (C = e.match(/^@yarnpkg/plugin-(.*)$/)) ||
                void 0 === C
                ? void 0
                : C[1]) &&
                void 0 !== f
                ? f
                : '',
            ) &&
            (null === (I = n.VK.telemetry) ||
            void 0 === I ||
            I.reportPluginName(e))
            for (const e of t.commands || [])
            p.register(e)
        }
    const A = p.process(process.argv.slice(2))
    A.help ||
    null === (E = n.VK.telemetry) ||
    void 0 === E ||
    E.reportCommandName(A.path.join(' '))
    const i = A.cwd
    if (void 0 !== i && !D) {
        const e = (0, l.realpathSync)(process.cwd()),
            t = (0, l.realpathSync)(i)
        if (e !== t) return process.chdir(i), void (await r())
    }
    await p.runExit(A, {
        cwd: s.cS.toPortablePath(process.cwd()),
        plugins: t,
        quiet: !1,
        stdin: process.stdin,
        stdout: process.stdout,
        stderr: process.stderr,
    })}
try {

!function (e) {
    const t = s.cS.fromPortablePath(e)
    process.on('SIGINT', () => { },
    t?
        (0, a.execFileSync)
            (process.execPath,
            [t, ...process.argv.slice(2)],
            {
                stdio: 'inherit',
                env: {
                    ...process.env,
                    YARN_IGNORE_PATH: '1',
                    YARN_IGNORE_CWD: '1',
                },
            },
        : (0, a.execFileSync)(t, process.argv.slice(2), {
            stdio: 'inherit',
            env: {
                ...process.env,
                YARN_IGNORE_PATH: '1',
                YARN_IGNORE_CWD: '1',
            },
        }
    ))(w)
} catch (e) {
    process.stdout.write(
        p.error(
            new Error(
                'The "yarn-path" option has been set (in ${m.sources.get('yarnPath',
            })), but the specified location doesn't exist (${w}).',
        ),
    ),
    ).
    (process.exitCode = 1)
})(h)
} catch (e) {
    process.stdout.write(h.error(e)), (process.exitCode = 1)
}
}
return r().catch((e) => {

} else if (i.xfs.existsSync(w))
try {

!function (e) {
    const t = s.cS.fromPortablePath(e)
    process.on('SIGINT', () => { },
    t?
        (0, a.execFileSync)
            (process.execPath,
            [t, ...process.argv.slice(2)],
            {
                stdio: 'inherit',
                env: {
                    ...process.env,
                    YARN_IGNORE_PATH: '1',
                    YARN_IGNORE_CWD: '1',
                },
            },
        : (0, a.execFileSync)(t, process.argv.slice(2), {
            stdio: 'inherit',
            env: {
                ...process.env,
                YARN_IGNORE_PATH: '1',
                YARN_IGNORE_CWD: '1',
            },
        }
    ))(w)
} catch (e) {
    process.stdout.write(
        p.error(
            new Error(
                'The "yarn-path" option has been set (in ${m.sources.get('yarnPath',
            })), but the specified location doesn't exist (${w}).',
        ),
    ),
    ).
    (process.exitCode = 1)
})(h)
} catch (e) {
    process.stdout.write(h.error(e)), (process.exitCode = 1)
}
}
return r().catch((e) => {

}
process.stdout.write(e.stack || e.message), (process.exitCode = 1)
})
.finally(() => i.xfs.rtmpFilePromise()
})
:(0, h.gn)([g.Command.Path('--welcome')], C.prototype, 'execute', null)
},

15683: (e, t, r) => {
  'use strict'
  r.d(t, { f: () => A })
  const A = new Map([
    ['constraints',
      [
        ['constraints', 'query'],
        ['constraints', 'source'],
        ['constraints'],
      ],
    ],
    ['exec', []],
    ['interactive-tools', [['search'], ['upgrade-interactive']]],
    ['stage', ['stage']],
    ['typescript', []],
    ['version',
      ['version', 'apply'], ['version', 'check'], ['version']],
  ],
  ['workspace-tools',
    [
      ['workspaces', 'focus'],
      ['workspaces', 'foreach'],
    ],
  ],
  )
},

56087: (e, t, r) => {
  'use strict'
  r.d(t, { F: () => o })
  var A = r(36370),
  n = r(40822)
  class o extends n.Command {}
  :(0, A.gn)(
    [n.Command.String('--cwd', { hidden: !0 })],
    o.prototype,
    'cwd',
    void 0,
  ),
  },
28148: (e, t, r) => {
    'use strict'
    r.d(t, { C: () => I })
    var A = r(78420),
    n = r(15037),
    o = r(90739),
    i = r(14626),
    s = r(46009),
    a = r(43896),
    c = r(65281),
    g = r(35747),
    l = r.n(g),
    u = r(92659),
    h = r(35691),
    p = r(20624),
    d = r(73632),
    C = r(54143)
    const f = 7
    class I {
        constructor(
            e,
            {
                configuration: t,
                immutable: r = t.get('enableImmutableCache'),
                check: A = !1,
            },
            ) {
            (this.markedFiles = new Set()),
            (this.mutexes = new Map()),
            (this.configuration = t),
            (this.cwd = e),
            (this.immutable = r),
            (this.check = A)
            const n = t.get('cacheKeyOverride')
            if (null !== n) this.cacheKey = "" + n
            else {
                const e = t.get('compressionLevel'),
                r = e !== o.k ? 'c' + e : "
                this.cacheKey = [f, r].join('')
            }
        }
        static async find(e, { immutable: t, check: r } = { }) {
            const A = new I(e.get('cacheFolder'), {
                configuration: e,
                immutable: t,
                check: r,
            })
            return await A.setup(), A
get mirrorCwd() {
    if (!this.configuration.get('enableMirror')) return null
    const e = this.configuration.get('globalFolder') + '/cache'
    return e !== this.cwd ? e : null
}

getVersionFilename(e) {
    return `$C.slugifyLocator(e)-$this.cacheKey.zip`
}

getChecksumFilename(e, t) {
    const r = (function (e) {
        const t = e.indexOf('/')
        return -1 !== t ? e.slice(t + 1) : e
    })(t).slice(0, 10)
    return `${C.slugifyLocator(e)}-${r}.zip`
}

getLocatorPath(e, t) {
    if (null === this.mirrorCwd)
        return s.y1.resolve(this.cwd, this.getVersionFilename(e))
    if (null === t) return null
    return E(t) !== this.cacheKey
        ? null
        : s.y1.resolve(this.cwd, this.getChecksumFilename(e, t))
}

getLocatorMirrorPath(e) {
    const t = this.mirrorCwd
    return null !== t
        ? s.y1.resolve(t, this.getVersionFilename(e))
        : null
}

async setup() {
    if (!this.configuration.get('enableGlobalCache')) {
        await a.xfs.mkdirPromise(this.cwd, { recursive: !0 })
        const e = s.y1.resolve(this.cwd, '.gitignore')
        await a.xfs.changeFilePromise(e, '/.gitignore
*.flock
')
    }
}

async fetchPackageFromCache(
    e, t,
    { onHit: r, onMiss: g, loader: f, skipIntegrityCheck: I },
) {
    const B = this.getLocatorMirrorPath(e),
        y = new A.S(),
        m = async (e, r = null) => {
            const A =
                I && t ? t : `$this.cacheKey/$await p.checksumFile(e)`
            if (null !== r) {
if (A !== (I && t ? t : `${this.cacheKey}/${await p.checksumFile(r)}`))
  throw new h.lk(u.b.CACHE_CHECKSUM_MISMATCH,
    "The remote archive doesn't match the local checksum - has the local cache been corrupted?",
  )
}
if (null !== t && A !== t) {
  let e
  switch (
    ((e = this.check ? 'throw' : E(t) !== E(A) ? 'update' : this.configuration.get('checksumBehavior')), e)
  ) {
    case 'ignore':
      return t
    case 'update':
      return A
    default:
      case 'throw':
        throw new h.lk(u.b.CACHE_CHECKSUM_MISMATCH,
          "The remote archive doesn't match the expected checksum",
        )
  }
  return A,
}

w = async (t) => {
  if (!f)
    throw new Error('Cache check required but no loader configured for ' + C.prettyLocator(this.configuration, e),
  )
  const r = await f(),
    A = r.getRealPath()
  return (r.saveAndClose(),
    await a.xfs.chmodPromise(A, 420),
    await m(t, A)
  )
},

Q = async () => {
if (null === B || !(await a.xfs.existsSync(B))) {
    const e = await f(),
    t = e.realpath()
    return e.saveAndClose(), t
}

const t = await a.xfs.mktempPromise(),
    r = s.y1.join(t, this.getVersionFilename(e))
return (
    await a.xfs.copyFilePromise(
        B,
        r,
        l().constants.COPYFILE_FICLONE,
    ),
    r
),
D = async () => {
    if (!f)
        throw new Error(
            'Cache entry required but missing for ' +
            C.prettyLocator(this.configuration, e),
        )
    if (this.immutable)
        throw new h.lk(
            u.b.IMMUTABLE_CACHE,
            'Cache entry required but missing for ' +
            C.prettyLocator(this.configuration, e),
        )
    const t = await Q()
    await a.xfs.chmodPromise(t, 420)
    const r = await m(t),
        A = this.getLocatorPath(e, r)
    if (!A)
        throw new Error(
            'Assertion failed: Expected the cache path to be available',
        )
    return await this.writeFileWithLock(
        A,
        async () =>
            await this.writeFileWithLock(  
                B,
                async () => {
                    await a.xfs.movePromise(t, A),
                    null !== B &&
                    (await a.xfs.copyFilePromise(
                        A,
                        B,
                        l().constants.COPYFILE_FICLONE,
for (let t; (t = this.mutexes.get(e.locatorHash)); ) await t
const [b, v] = await (async () => {
    const A = (async () => {
        const A = this.getLocatorPath(e, t),
        n = null !== A && (await y.existsPromise(A)),
        o = n ? r : g
        if ((o && o()), n) {
            let e = null
            const t = A
            return (e = this.check ? await w(t) : await m(t)), [t, e]
        }
        return D()
    })()
    this.mutexes.set(e.locatorHash, A)
    try {
        return await A
    } finally {
        this.mutexes.delete(e.locatorHash)
    }
})()
this.markedFiles.add(b)
let S = null
const k = await (0, c.getLibzipPromise)(),
N = new n.v(
    () =>
    d.prettifySyncErrors(
        () =>
        (S = new o.d(b, { baseFs: y, libzip: k, readOnly: !0 })),
        t) =>
        'Failed to open the cache entry for ${C.prettyLocator( this.configuration,
        e,
        )}: ${t}',
    ),
    s.y1,
)
return [ new i.K(b, { baseFs: N, pathUtils: s.y1 })),
    () => { null !== S && S.discardAndClose() },
} v,
async writeFileWithLock(e, t) {
  return null === e
    ? await t()
    : (await a.xfs.mkdirPromise(s.y1.getName(e), { recursive: !0 })),
    await a.xfs.lockPromise(e, async () => await t()))
}
}

function E(e) {
  const t = e.indexOf('/')
  return -1 !== t ? e.slice(0, t) : null
}
,
39922: (e, t, r) => {
  'use strict'
  r.d(t, {  
    VK: () => W,
    nh: () => U,
    tr: () => O,
    a5: () => j,
    EW: () => z,
    a2: () => T,  
  })
  var A = r(43896),
    n = r(46009),
    o = r(90739),
    i = r(11640),
    s = r(54738),
    a = r.n(s),
    c = r(5864),
    g = r(40822),
    l = r(61578),
    u = r.n(l),
    h = r(53887),
    p = r.n(h),
    d = r(92413),
    C = r(92659),
    f = r(54143)
  const I = {
    hooks: {
      reduceDependency: (e, t, r, A, { resolver: n, resolveOptions: o },) => {
      
    }}
  }
}
for (const { pattern: A, reference: i } of t.topLevelWorkspace
.manifest.resolutions) {
  if (A.from && A.from.fullName !== f.requirableIdent(r)) continue
  if (A.from && A.from.description &&
      A.from.description !== r.reference)
    continue
  if (A.descriptor.fullName !== f.requirableIdent(e)) continue
  if (A.descriptor.description &&
      A.descriptor.description !== e.range)
    continue
  return n.bindDescriptor(
    f.makeDescriptor(e, i),
    t.topLevelWorkspace.anchoredLocator,
    o,
  )
  return e
}

validateProject: async (e, t) => {
  for (const r of e.workspaces) {
    const A = f.prettyWorkspace(e.configuration, r)
    await e.configuration.triggerHook(
      (e) => e.validateWorkspace,
      r,
      {
        reportWarning: (e, r) => t.reportWarning(e, `${A}: ${r}`),
        reportError: (e, r) => t.reportError(e, `${A}: ${r}`),
      },
    )
  }
}

validateWorkspace: async (e, t) => {
  const { manifest: r } = e
  r.resolutions.length &&
  e.cwd !== e.project.cwd &&
  r.errors.push(new Error('Resolutions field will be ignored'))
  for (const e of r.errors)
    t.reportWarning(C.b.INVALID_MANIFEST, e.message)
}

var E = r(46611),
    B = r(35691)
class y {
  constructor(e) {
    this.fetchers = e
  }
  supports(e, t) {
    return !!this.tryFetcher(e, t)
  }
  getLocalPath(e, t) {
    return this.getFetcher(e, t).getLocalPath(e, t)
  }
  async fetch(e, t) {
    const r = this.getFetcher(e, t)
    return await r.fetch(e, t)
  }
  tryFetcher(e, t) {
    const r = this.fetchers.find((r) => r.supports(e, t))
    return r || null
  }
  getFetcher(e, t) {
    const r = this.fetchers.find((r) => r.supports(e, t))
    if (!r)
      throw new B.lk(
        C.b.FETCHER_NOT_FOUND,
        f.prettyLocator(t.project.configuration, e) +
        " isn't supported by any available fetcher",
      )
    return r
  }
}
var m = r(27092),
  w = r(52779),
  Q = r(60895)
class D {
  static isVirtualDescriptor(e) {
    return !!e.range.startsWith(D.protocol)
  }
  static isVirtualLocator(e) {
    return !!e.reference.startsWith(D.protocol)
  }
  supportsDescriptor(e, t) {
    return D.isVirtualDescriptor(e)
  }
  supportsLocator(e, t) {
    return D.isVirtualLocator(e)
  }
  shouldPersistResolution(e, t) {
    return !1
  }
}
bindDescriptor(e, t, r) {
    throw new Error(
        'Assertion failed: calling "bindDescriptor" on a virtual descriptor is unsupported',
    )
}

getResolutionDependencies(e, t) {
    throw new Error(
        'Assertion failed: calling "getResolutionDependencies" on a virtual descriptor is unsupported',
    )
}

async getCandidates(e, t, r) {
    throw new Error(
        'Assertion failed: calling "getCandidates" on a virtual descriptor is unsupported',
    )
}

async getSatisfying(e, t, r) {
    throw new Error(
        'Assertion failed: calling "getSatisfying" on a virtual descriptor is unsupported',
    )
}

async resolve(e, t) {
    throw new Error(
        'Assertion failed: calling "resolve" on a virtual locator is unsupported',
    )
}

D.protocol = 'virtual:

var b = r(75448),
v = r(94538)
class S {
    supports(e) {
        return !!e.reference.startsWith(v.d.protocol)
    }

getLocalPath(e, t) {
    return this.getWorkspace(e, t).cwd
}

async fetch(e, t) {
    const r = this.getWorkspace(e, t).cwd
    return { packageFs: new b.M(r), prefixPath: n.LZ.dot, localPath: r }
}

getWorkspace(e, t) {
    return t.project.getWorkspaceByCwd(
        e.reference.slice(v.d.protocol.length),
    )
}

var k = r(81111),
N = r(71643),
F = r(73632),
K = r(32282),
M = r.n(K)

function R(e) {
    return ('undefined' != typeof require ? require : r(32178))(e)
}

var x = r(36545),
L = r(32485)

const P = new Set(['
    'binFolder',
    'version',
    'flags',
    'profile',
    'gpg',
    'ignoreNode',
    'wrapOutput',
])

O = '.yarnrc.yml',
U = 'yarn.lock'

var T

!(function (e) {
    (e.ANY = 'ANY'),
    (e.BOOLEAN = 'BOOLEAN'),
    (e.ABSOLUTE_PATH = 'ABSOLUTE_PATH'),
    (e.LOCATOR = 'LOCATOR'),
    (e.LOCATOR_LOOSE = 'LOCATOR_LOOSE'),
    (e.NUMBER = 'NUMBER'),
    (e.STRING = 'STRING'),
    (e.SECRET = 'SECRET'),
    (e.SHAPE = 'SHAPE'),
    (e.MAP = 'MAP')
})(T || (T = {}))

const j = N.Type,

Y = {
lastUpdateCheck: {
    description: 'Last timestamp we checked whether new Yarn versions were available',
type: T.STRING,
default: null,
},
yarnPath: {
    description: 'Path to the local executable that must be used over the global one',
type: T.ABSOLUTE_PATH,
default: null,
},
ignorePath: {
    description:
'If true, the local executable will be ignored when using the global one',
type: T.BOOLEAN,
default: !1,
},
ignoreCwd: {
  description: 'If true, the `--cwd` flag will be ignored',
type: T.BOOLEAN,
default: !1,
},
cacheKeyOverride: {
  description:
    'A global cache key override; used only for test purposes',
type: T.STRING,
default: null,
},
globalFolder: {
  description: 'Folder where are stored the system-wide settings',
type: T.ABSOLUTE_PATH,
default: k.getDefaultGlobalFolder(),
},
cacheFolder: {
  description: 'Folder where the cache files must be written',
type: T.ABSOLUTE_PATH,
default: './.yarn/cache',
},
compressionLevel: {
  description:
    "Zip files compression level, from 0 to 9 or mixed (a variant of 9, which stores some files uncompressed,
    when compression doesn't yield good results)",
  type: T.NUMBER,
  values: ['mixed', 0, 1, 2, 3, 4, 5, 6, 7, 8, 9],
default: o.k,
},
virtualFolder: {
  description:
    'Folder where the virtual packages (cf doc) will be mapped on the disk (must be named $virtual)',
type: T.ABSOLUTE_PATH,
default: './.yarn/$virtual',
},
bstatePath: {
  description:
    'Path of the file where the current state of the built packages must be stored',
type: T.ABSOLUTE_PATH,
default: './.yarn/build-state.yml',
},
lockfileFilename: {
  description:
    'Name of the files where the Yarn dependency tree entries must be stored',
}
```javascript
{  
  type: T.STRING,
  default: U,
},
installStatePath: {
  description:
    'Path of the file where the install state will be persisted',
  type: T.ABSOLUTE_PATH,
  default: './.yarn/install-state.gz',
},
immutablePatterns: {
  description:
    "Array of glob patterns; files matching them won't be allowed to change during immutable installs",
  type: T.STRING,
  default: [],
  isArray: !0,
},
rcFilename: {
  description:
    'Name of the files where the configuration can be found',
  type: T.STRING,
  default: q(),
},
enableGlobalCache: {
  description:
    'If true, the system-wide cache folder will be used regardless of `cache-folder`',
  type: T.BOOLEAN,
  default: !1,
},
enableAbsoluteVirtuals: {
  description:
    'If true, the virtual symlinks will use absolute paths if required [non portable!!]',
  type: T.BOOLEAN,
  default: !1,
},
enableColors: {
  description:
    'If true, the CLI is allowed to use colors in its output',
  type: T.BOOLEAN,
  default: N.supportsColor,
  defaultText: '<dynamic>',
},
enableHyperlinks: {
  description:
    'If true, the CLI is allowed to use hyperlinks in its output',
  type: T.BOOLEAN,
  default: N.supportsHyperlinks,
  defaultText: '<dynamic>',
},
```
enableInlineBuilds: {
  description: 'If true, the CLI will print the build output on the command line',
  type: T.BOOLEAN,
  default: c.isCI,
  defaultText: '<dynamic>',
},

enableProgressBars: {
  description: 'If true, the CLI is allowed to show a progress bar for long-running events',
  type: T.BOOLEAN,
  default: !c.isCI && process.stdout.isTTY && process.stdout.columns > 22,
  defaultText: '<dynamic>',
},

enableTimers: {
  description: 'If true, the CLI is allowed to print the time spent executing commands',
  type: T.BOOLEAN,
  default: !0,
},

preferAggregateCacheInfo: {
  description: 'If true, the CLI will only print a one-line report of any cache changes',
  type: T.BOOLEAN,
  default: c.isCI,
},

preferInteractive: {
  description: 'If true, the CLI will automatically use the interactive mode when called from a TTY',
  type: T.BOOLEAN,
  default: !1,
},

preferTruncatedLines: {
  description: 'If true, the CLI will truncate lines that would go beyond the size of the terminal',
  type: T.BOOLEAN,
  default: !1,
},

progressBarStyle: {
  description: 'Which style of progress bar should be used (only when progress bars are enabled)',
  type: T.STRING,
  default: void 0,
  defaultText: '<dynamic>',
},

defaultLanguageName: {
  description:
"Default language mode that should be used when a package doesn't offer any insight",
description:
'type: T.STRING,
default: 'node',
},
defaultProtocol: {
description:
'Default resolution protocol used when resolving pure semver and tag ranges',
type: T.STRING,
default: 'npm:',
},
enableTransparentWorkspaces: {
description:
"If false, Yarn won't automatically resolve workspace dependencies unless they use the "workspace:" protocol",
type: T.BOOLEAN,
default: !0,
},
enableMirror: {
description:
'If true, the downloaded packages will be retrieved and stored in both the local and global folders',
type: T.BOOLEAN,
default: !0,
},
enableNetwork: {
description:
'If false, the package manager will refuse to use the network if required to',
type: T.BOOLEAN,
default: !0,
},
httpProxy: {
description:
'URL of the http proxy that must be used for outgoing http requests',
type: T.STRING,
default: null,
},
httpsProxy: {
description:
'URL of the http proxy that must be used for outgoing https requests',
type: T.STRING,
default: null,
},
unsafeHttpWhitelist: {
description:
'List of the hostnames for which http queries are allowed (glob patterns are supported)',
type: T.STRING,
default: [],
 isArray: !0,
};
httpTimeout: {
    description: 'Timeout of each http request in milliseconds',
    type: T.NUMBER,
    default: 6e4,
},

httpRetry: {
    description: 'Retry times on http failure',
    type: T.NUMBER,
    default: 3,
},

networkConcurrency: {
    description: 'Maximal number of concurrent requests',
    type: T.NUMBER,
    default: 1 / 0,
},

networkSettings: {
    description: 'Network settings per hostname (glob patterns are supported)',
    type: T.MAP,
    valueDefinition: {
        description: '',
        type: T.SHAPE,
        properties: {
            caFilePath: {
                description: 'Path to file containing one or multiple Certificate Authority signing certificates',
                type: T.ABSOLUTE_PATH,
                default: null,
            },
            enableNetwork: {
                description: 'If false, the package manager will refuse to use the network if required to',
                type: T.BOOLEAN,
                default: null,
            },
            httpProxy: {
                description: 'URL of the http proxy that must be used for outgoing http requests',
                type: T.STRING,
                default: null,
            },
            httpsProxy: {
                description: 'URL of the http proxy that must be used for outgoing https requests',
                type: T.STRING,
                default: null,
            },
        },
    },
}
caFilePath: {
  description: 'A path to a file containing one or multiple Certificate Authority signing certificates',
  type: T.ABSOLUTE_PATH,
  default: null,
},
enableStrictSsl: {
  description: 'If false, SSL certificate errors will be ignored',
  type: T.BOOLEAN,
  default: !0,
},
logFilters: {
  description: 'Overrides for log levels',
  type: T.SHAPE,
  isArray: !0,
  concatenateValues: !0,
  properties: {
    code: {
      description: 'Code of the messages covered by this override',
      type: T.STRING,
      default: void 0,
    },
    text: {
      description: 'Code of the texts covered by this override',
      type: T.STRING,
      default: void 0,
    },
    level: {
      description: 'Log level override, set to null to remove override',
      type: T.STRING,
      values: Object.values(N.LogLevel),
      isNullable: !0,
      default: void 0,
    },
  },
},
enableTelemetry: {
  description: 'If true, telemetry will be periodically sent, following the rules in https://yarnpkg.com/advanced/telemetry',
  type: T.BOOLEAN,
  default: !0,
},
telemetryInterval: {
  description: 'Minimal amount of time between two telemetry uploads, in days',
}
Open Source Used In Cisco Cloud Mailbox Defense -CMD (Project Raptor) April 2021 20285

type: T.NUMBER,
default: 7,
},,
telemetryUserId: {
  description:
    'If you desire to tell us which project you are, you can set this field. Completely optional and opt-in,,'
type: T.STRING,
default: null,
},,
enableScripts: {
  description:
    'If true, packages are allowed to have install scripts by default',
type: T.BOOLEAN,
default: !0,
},,
enableImmutableCache: {
  description:
    'If true, the cache is reputed immutable and actions that would modify it will throw',
type: T.BOOLEAN,
default: !1,
},
checksumBehavior: {
  description:
    "Enumeration defining what to do when a checksum doesn't match expectations",
type: T.STRING,
default: 'throw',
},
packageExtensions: {
  description:
    'Map of package corrections to apply on the dependency tree',
type: T.MAP,
valueDefinition: {
  description:
    'The extension that will be applied to any package whose version matches the specified range',
type: T.SHAPE,
properties: {
  dependencies: {
    description:
      'The set of dependencies that must be made available to the current package in order for it to work properly',
type: T.MAP,
valueDefinition: { description: 'A range', type: T.STRING },
  },
peerDependencies: {
    description:
      'Inherited dependencies - the consumer of the package will be tasked to provide them',
type: T.MAP,
valueDefinition: {

description: 'A semver range',
type: T.STRING,
}
},
}
peerDependenciesMeta: {
description:
'Extra information related to the dependencies listed in the peerDependencies field',
type: T.MAP,
valueDefinition: {
description: 'The peerDependency meta',
type: T.SHAPE,
properties: {
optional: {
description:
"If true, the selected peer dependency will be marked as optional by the package manager and the
consumer omitting it won't be reported as an error",
type: T.BOOLEAN,
default: !1,
},
},
},
},
}
function G(e, t, r, A, n) {
if (A.isArray)
return Array.isArray(r)
? r.map((r, o) => H(e, `${t}[${o}]`, r, A, n))
: String(r)
.split(/,/
).map((r) => H(e, t, r, A, n))
if (Array.isArray(r))
throw new Error(
'Non-array configuration settings "$t" cannot be an array',
)
return H(e, t, r, A, n)
}
function H(e, t, r, A, o) {
var i
switch (A.type) {
case T.ANY:
return r

case T.SHAPE:
return (function (e, t, r, A, n) {
if ('object' ! typeof r || Array.isArray(r))
throw new g.UsageError(}())
}
Object configuration settings "$t" must be an object.

const o = J(e, A, { ignoreArrays: !0 })
if (null === r) return o
for (const [i, s] of Object.entries(r)) {
  const r = "$t".$[i]
  if (!A.properties[i])
    throw new g.UsageError(
      'Unrecognized configuration settings found: $t.$[i] - run "yarn config -v" to see the list of settings supported in Yarn',
    )
  o.set(i, G(e, r, s, A.properties[i], n))
}
return o
}(e, t, r, A, o)
case T.MAP:
  return (function (e, t, r, A, n) {
    const o = new Map()
    if ('object' != typeof r || Array.isArray(r))
      throw new g.UsageError(
        'Map configuration settings "$t" must be an object',
      )
    if (null === r) return o
    for (const [i, s] of Object.entries(r)) {
      const r = A.normalizeKeys ? A.normalizeKeys(i) : i,
        a = "$t"['${r}']
      e = A.valueDefinition
      o.set(r, G(e, a, s, c, n))
    }
    return o
  })(e, t, r, A, o)
}
if (null === r && !A.isNullable && null !== A.default)
  throw new Error(
    'Non-nullable configuration settings "$t" cannot be set to null',
  )
if (null === (i = A.values) || void 0 === i ? void 0 : i.includes(r))
  return r
const s = (i) => {
  if (A.type === T.BOOLEAN) return F.parseBoolean(r)
  if ('string' !== typeof r)
    throw new Error('Expected value ($[r]) to be a string')
  const e = F.replaceEnvVariables(r, { env: process.env })
  switch (A.type) {
    case T.ABSOLUTE_PATH:
      return n.y1.resolve(o, n.cS.toPortablePath(e))
    case T.LOCATOR_LOOSE:
      return f.parseLocator(e, !1)
case T.NUMBER:
    return parseInt(e)
case T.LOCATOR:
    return f.parseLocator(e)
default:
    return e
})()
if (A.values && !A.values.includes(s))
    throw new Error('Invalid value, expected one of ' + A.values.join(', '))
return s
}()
if (A.values && !A.values.includes(s))
    throw new Error('Invalid value, expected one of ' + A.values.join(', '))
return s
}()
if (A.values && !A.values.includes(s))
    throw new Error('Invalid value, expected one of ' + A.values.join(', '))
return s
}()
if (A.values && !A.values.includes(s))
    throw new Error('Invalid value, expected one of ' + A.values.join(', '))
return s
}()
if (A.values && !A.values.includes(s))
    throw new Error('Invalid value, expected one of ' + A.values.join(', '))
return s
}()
if (A.values && !A.values.includes(s))
    throw new Error('Invalid value, expected one of ' + A.values.join(', '))
return s
}()
if (A.values && !A.values.includes(s))
    throw new Error('Invalid value, expected one of ' + A.values.join(', '))
return s
}()
if (A.values && !A.values.includes(s))
    throw new Error('Invalid value, expected one of ' + A.values.join(', '))
return s
}()
!(function (e) {
    (e[(e.LOCKFILE = 0)] = 'LOCKFILE'),
    (e[(e.MANIFEST = 1)] = 'MANIFEST'),
    (e[(e.NONE = 2)] = 'NONE')
})(z || (z = {}))}

class W {

constructor(e) {
    (this.projectCwd = null),
    (this.plugins = new Map()),
    (this.settings = new Map()),
    (this.values = new Map()),
    (this.sources = new Map()),
    (this.invalid = new Map()),
    (this.packageExtensions = new Map()),
    (this.limits = new Map()),
    (this.startingCwd = e)
}

static create(e, t, r) {
    const A = new W(e)
    void 0 === t || t instanceof Map || (A.projectCwd = t),
    A.importSettings(Y)
    const n = void 0 !== r ? r : t instanceof Map ? t : new Map()
    for (const [e, t] of n) A.activatePlugin(e, t)
    return A
}

static async find(
    e,
    t, {
    lookup: r = z.LOCKFILE,
    strict: o = !0,
    usePath: i = !1,
    useRc: s = !0,
    } = {}),
) {
    const c = (function () {
        const e = [
            for (let [t, r] of Object.entries(process.env))
            (t = t.toLowerCase()),
            t.startsWith('yarn_') &&
            ((t = a()(t.slice('yarn_'.length))), (e[t] = r))
        return e
    })()
    delete c.rcFilename
    const l = await W.findRcFiles(e),
    u = await W.findHomeRcFile(),
    h = ({
    ignoreCwd: e,
yarnPath: t,
ignorePath: r,
lockfileFilename: A,
}) => {
  ignoreCwd: e,
yarnPath: t,
ignorePath: r,
lockfileFilename: A,
}).
p = (
  ignoreCwd: e,
yarnPath: t,
ignorePath: r,
lockfileFilename: A,
...n
}) => n,
d = new W(e)
d.importSettings(h(Y)),
d.useWithSource('<environment>', h(c), e, { strict: !1 })
for (const { path: e, cwd: t, data: r } of l)
  d.useWithSource(e, h(r), t, { strict: !1 })
if (
  (u && d.useWithSource(u.path, h(u.data), u.cwd, { strict: !1 }),
  i)
) {
  const e = d.get('yarnPath'),
t = d.get('ignorePath')
if (null !== e && !t) return d
}
const C = d.get('lockfileFilename')
let f
switch (r) {
  case z.LOCKFILE:
    f = await W.findProjectCwd(e, C)
    break
  case z.MANIFEST:
    f = await W.findProjectCwd(e, null)
    break
  case z.NONE:
    f = A.xfs.existsSync(n.y1.join(e, 'package.json'))
      ? n.y1.resolve(e)
      : null
}
:(d.startingCwd = e), (d.projectCwd = f), d.importSettings(p(Y))
const E = new Map([['@core', I]])
if (null !== t) {
  for (const e of t.plugins.keys())
    E.set(e, (B = t.modules.get(e)).__esModule ? B.default : B)
const r = new Map()
for (const e of new Set(
    M().builtinModules || Object.keys(process.binding('natives')),
))
    r.set(e, () => R(e))
for (const [e, A] of t.modules) r.set(e, () => A)
const A = new Set(),
o = (e) => e.default || e,
i = (e, t) => {
    const { factory: i, name: s } = R(n.cS.fromPortablePath(e))
    if (A.has(s)) return
    const a = new Map(r),
    c = (e) => {
        if (a.has(e)) return a.get(e)()
        throw new g.UsageError(
            'This plugin cannot access the package referenced via ${e} which is neither a builtin, nor an exposed
            entry',
        )
    },
    l = F.prettifySyncErrors(
        () => o(i(c)),
        (e) => `${e} (when initializing ${s}, defined in ${t})`
    )
    r.set(s, () => l), A.add(s), E.set(s, l)
}
if (c.plugins)
for (const t of c.plugins.split(';')) {
    i(n.y1.resolve(e, n.cS.toPortablePath(t)), '<environment>')
}
for (const { path: e, cwd: t, data: r } of l)
if (s && Array.isArray(r.plugins))
    for (const A of r.plugins) {
        const r = 'string' != typeof A ? A.path : A
        i(n.y1.resolve(t, n.cS.toPortablePath(r)), e)
    }
}
var B
for (const [e, t] of E) d.activatePlugin(e, t)
d.useWithSource('<environment>', p(e), e, { strict: o })
for (const [path: e, cwd: t, data: r] of l)
    d.useWithSource(e, p(r), t, { strict: o })
return (
u && d.useWithSource(u.path, p(u.data), u.cwd, { strict: !1 })),
d.get('enableGlobalCache') &&
    (d.values.set('cacheFolder', d.get('globalFolder') + '/cache'),
    d.sources.set('cacheFolder', '<internal>'))
await d.refreshPackageExtensions(),
d
```javascript
static async findRcFiles(e) {
  const t = q(),
    r = []
  let o = e,
    s = null
  for (; o !== s; ) {
    s = o
    const e = n.y1.join(s, t)
    if (A.xfs.existsSync(e)) {
      const t = await A.xfs.readFilePromise(e, 'utf8')
      let n
      try {
        n = (0, i.parseSyml)(t)
      } catch (r) {
        let A = ''
        throw (
          t.match(/^[\s]+(?!-)[^:]+\s+\S+/m) &&
          (A = ’ (in particular, make sure you list the colons after each key name’),
          new g.UsageError(
            ’Parse error when loading ${e}; please check it’s proper Yaml$A’,
          )
        )
      }
      r.push({ path: e, cwd: s, data: n })
    }
    o = n.y1.dirname(s)
  }
  return r
}

static async findHomeRcFile() {
  const e = q(),
    t = k.getHomeFolder(),
    r = n.y1.join(t, e)
  if (A.xfs.existsSync(r)) {
    const e = await A.xfs.readFilePromise(r, 'utf8')
    return { path: r, cwd: t, data: (0, i.parseSyml)(e) }
  }
  return null
}

static async findProjectCwd(e, t) {
  let r = null,
    o = e,
    i = null
  for (; o !== i; ) {
    if (} )
```
((i = o),
A.xfs.existsSync(n.y1.join(i, 'package.json')) && (r = i),
null !== t)
) {
  if (A.xfs.existsSync(n.y1.join(i, t))) {
    r = i
    break
  }
} else if (null !== r) break
o = n.y1.dirname(i)
}
return r
}

static async updateConfiguration(e, t) {
const r = q(),
o = n.y1.join(e, r),
s = A.xfs.existsSync(o)
  ? (0, i.parseSyml)(await A.xfs.readFilePromise(o, 'utf8'))
  : {};
let a,
c = !1
if ('function' === typeof t) {
  try {
    a = t(s)
  } catch (e) {
    a = t({})
  }
  if (a === s) return
} else {
  a = s
  for (const e of Object.keys(t)) {
    const r = s[e],
        A = t[e]
    let n
    if ('function' === typeof A)
      try {
        n = A(r)
      } catch (e) {
        n = A(void 0)
      }
      else n = A
    r !== n && ((a[e] = n), (c = !0))
  }
  if (!c) return
}
await A.xfs.changeFilePromise(o, (0, i.stringifySyml)(a), {
  automaticNewlines: !0,
})
static async updateHomeConfiguration(e) {
  const t = k.getHomeFolder()
  return await W.updateConfiguration(t, e)
}
activatePlugin(e, t) {
  this.plugins.set(e, t),
  void 0 !== t.configuration && this.importSettings(t.configuration)
}
importSettings(e) {
  for (const [t, r] of Object.entries(e))
    if (null !== t) {
      if (this.settings.has(t))
        throw new Error(`Cannot redefine settings "$t"`)
      this.settings.set(t, r), this.values.set(t, J(this, r))
    }
}
useWithSource(e, t, r, A) {
  try {
    this.use(e, t, r, A)
  } catch (t) {
    throw (t.message += ` (in ${N.pretty(this, e, N.Type.PATH)})`), t
  }
}
use(e, t, r, { strict: A = !0, overwrite: n = !1 } = {}) {
  for (const o of Object.keys(t)) {
    if (void 0 === t[o]) continue
    if ('plugins' === o) continue
    if ('<environment>' === e && P.has(o)) continue
    if ('rcFilename' === o)
      throw new g.UsageError(`The rcFilename settings can only be set via ${'yarn_RC_FILENAME'.toUpperCase()}, not via a rc file`,
        const i = this.settings.get(o)
      if (!i) {
        if (A)
          throw new g.UsageError(`Unrecognized or legacy configuration settings found: ${o} - run "yarn config -v" to see the list of settings supported in Yarn`,
            this.invalid.set(o, e)
            continue
          }
        if (this.sources.has(o) &&
          !(n || i.type === T.MAP || (i.isArray && i.concatenateValues))
    )
  }
}
```javascript
continue
let s
try {
  s = G(this, o, t[o], i, r)
} catch (t) {
  throw {
    (t.message += in + N.pretty(this, e, N.Type.PATH)), t
  }
}
if (i.type === T.MAP) {
  const t = this.values.get(o)
  this.values.set(o, new Map(n ? [...t, ...s] : [...s, ...t])),
  this.sources.set(o, `${this.sources.get(o)}, ${e}´)
} else if (i.isArray && i.concatenateValues) {
  const t = this.values.get(o)
  this.values.set(o, n ? [...t, ...s] : [...s, ...t]),
  this.sources.set(o, `${this.sources.get(o)}, ${e}´)
} else this.values.set(o, s), this.sources.set(o, e)
}
}
get(e) {
  if (!this.values.has(e))
    throw new Error(`Invalid configuration key "$e"`)
  return this.values.get(e)
}
getSpecial(e, { hideSecrets: t = !1, getNativePaths: r = !1 }) {
  const A = this.get(e),
  o = this.settings.get(e)
  if (void 0 === o)
    throw new g.UsageError(`Couldn't find a configuration settings named "$e"`)
  return (function e(t, r, A) {
    if (r.type === T.SECRET && 'string' == typeof t && A.hideSecrets)
      return '********'
    if (r.type === T.ABSOLUTE_PATH &&
      'string' == typeof t &&
      A.getNativePaths
    )
      return n.cS.fromPortablePath(t)
    if (r.isArray && Array.isArray(t)) {
      const n = [
        for (const o of t) n.push(e(o, r, A))
      ]
      return n
    } if (r.type === T.MAP && t instanceof Map) {
```
```javascript
const n = new Map()
for (const [o, i] of t.entries())
    n.set(o, e(i, r.valueDefinition, A))
return n
}

if (r.type === T.SHAPE && t instanceof Map)
    const n = new Map()
    for (const [o, i] of t.entries())
        const t = r.properties[o]
        n.set(o, e(i, t, A))
    return n

return t
})(A, o, { hideSecrets: t, getNativePaths: r })

getSubprocessStreams(e, { header: t, prefix: r, report: n }) {
    let o, i
    const s = A.xfs.createWriteStream(e)
    if (this.get('enableInlineBuilds')) {
        const e = n.createStreamReporter(`${r} ${N.pretty(this, 'STDOUT', 'green')}`,
            t = n.createStreamReporter(`${r} ${N.pretty(this, 'STDERR', 'red')}`,
                (o = new d.PassThrough()),
                o.pipe(e),
                o.pipe(s),
                (i = new d.PassThrough()),
                i.pipe(t),
                i.pipe(s)
            )
        else (o = s), (i = s), void 0 !== t && o.write(t + '
')
    return { stdout: o, stderr: i } }

makeResolver() {
    const e = []
    for (const t of this.plugins.values())
        for (const r of t.resolvers || []) e.push(new r())
    return new m.B([new D(), new v.d(), new w.O(), ...e])
}

makeFetcher() {
    const e = []
    for (const t of this.plugins.values())
        for (const r of t.fetchers || []) e.push(new r())
    return new y([new Q.N(), new S(), ...e])
}

getLinkers() {
```
const e = []
for (const t of this.plugins.values())
    for (const r of t.linkers || []) e.push(new r())
return e
}
async refreshPackageExtensions() {
    this.packageExtensions = new Map()
    const e = this.packageExtensions,
    t = (t, r, { userProvided: A = !1 } = {}) => {
        if (!p().validRange(t.range))
            throw new Error(
                'Only semver ranges are allowed as keys for the lockfileExtensions setting',
            )
        const n = new E.G()
        n.load(r, { yamlCompatibilityMode: !0 })
        const o = []
        F.getArrayWithDefault(e, t.identHash).push([t.range, o])
        const i = {
            status: L._u.Inactive,
            userProvided: A,
            parentDescriptor: t,
        }
        for (const e of n.dependencies.values())
            o.push(
                ...
            ,
                type: L.HN.Dependency,
                descriptor: e,
                description: `${f.stringifyIdent(t)} > ${f.stringifyIdent(e,
                    )}'`,
            )
            for (const e of n.peerDependencies.values())
                o.push(
                    ...
                ,
                    type: L.HN.PeerDependency,
                    descriptor: e,
                    description: `${f.stringifyIdent(t)} >> ${f.stringifyIdent(e,
                        )}'`,
                )
        for (const [e, r] of n.peerDependenciesMeta)
            for (const [A, n] of Object.entries(r))
                o.push(
                    ...
                ,
                    type: L.HN.PeerDependencyMeta,
                    selector: e,
                    key: A,
                    value: n,
description: `{f.stringifyIdent(t)} >> ${e} / ${A}`
}
}
await this.triggerHook((e) => e.registerPackageExtensions, this, t)
for (const [e, r] of this.get('packageExtensions'))
t(f.parseDescriptor(e, 0), F.convertMapsToIndexableObjects(r), {
  userProvided: 0,
})
}
}

normalizePackage(e) {
  const t = f.copyPackage(e)
  if (null == this.packageExtensions)
    throw new Error(  
      'refreshPackageExtensions has to be called before normalizing packages', 
    )
  const r = this.packageExtensions.get(e.identHash)
  if (void 0 !== r) {
    const A = e.version
    if (null !== A)
      for (const [e, n] of r)
        if (x.satisfiesWithPrereleases(A, e))
          for (const e of n)
            switch (  
              (e.status === L._u.Inactive &&
              (e.status = L._u.Redundant),
              e.type)
            ) {
              case L.HN.Dependency:
                void 0 ===
                t.dependencies.get(e.descriptor.identHash) &&
                ((e.status = L._u.Active),
                t.dependencies.set(  
                  e.descriptor.identHash,
                  e.descriptor,
                ))
                break
              case L.HN.PeerDependency:
                void 0 ===
                t.peerDependencies.get(e.descriptor.identHash) &&
                ((e.status = L._u.Active),
                t.peerDependencies.set(  
                  e.descriptor.identHash,
                  e.descriptor,
                ))
                break
              case L.HN.PeerDependencyMeta:
                {
                  const r = t.peerDependenciesMeta.get(e.selector)
;(void 0 !== r &&
  Object.prototype.hasOwnProperty.call(r, e.key) &&
  r[e.key] === e.value) ||
((e.status = L._u.Active),
(F.getFactoryWithDefault(
  t.peerDependenciesMeta,
  e.selector,
  () => ({}),
  )[e.key] = e.value))
} break
default: F.assertNever(e)
}

const A = (e) => (e.scope ? `${e.scope}__${e.name}` : '' + e.name)
for (const e of t.peerDependencies.values()) {
  if ('@types' === e.scope) continue
  const r = A(e),
  n = f.makeIdent('types', r)
  t.peerDependencies.has(n.identHash) ||
  t.peerDependenciesMeta.has(n.identHash) ||
  t.peerDependenciesMeta.set(f.stringifyIdent(n), {
    optional: '0,
  });
})
for (const e of t.peerDependenciesMeta.keys()) {
  const r = f.parseIdent(e)
  t.peerDependencies.has(r.identHash) ||
  t.peerDependencies.set(r.identHash, f.makeDescriptor(r, '*'))
}
return {
  (t.dependencies = new Map(
    F.sortMap(t.dependencies, ([, e]) => f.stringifyDescriptor(e)),
  )),
  (t.peerDependencies = new Map(
    F.sortMap(t.peerDependencies, ([, e]) =>
      f.stringifyDescriptor(e),
  )),
  ),
  t
})
}

gceleit(e) {
  return F.getFactoryWithDefault(this.limits, e, () =>
    u()(this.get(e)),
  )
}
```javascript
async triggerHook(e, ...t) {
    for (const r of this.plugins.values()) {
        const A = r.hooks
        if (!A) continue
        const n = e(A)
        n && (await n(...t))
    }
}

async triggerMultipleHooks(e, t) {
    for (const r of t) await this.triggerHook(e, ...r)
}

async reduceHook(e, t, ...r) {
    let A = t
    for (const t of this.plugins.values()) {
        const n = t.hooks
        if (!n) continue
        const o = e(n)
        o && (A = await o(A, ...r))
    }
    return A
}

async firstHook(e, ...t) {
    for (const r of this.plugins.values()) {
        const A = r.hooks
        if (!A) continue
        const n = e(A)
        if (!n) continue
        const o = await n(...t)
        if (void 0 !== o) return o
    }
    return null
}

format(e, t) {
    return N.pretty(this, e, t)
}
}
```

'use strict'

```javascript
r.d(t, { h: () => i })
var A = r(35691),
n = r(15815),
o = r(71643)
class i extends A.yG {
  constructor({ configuration: e, stdout: t, suggestInstall: r = !0 }) {
    super(),
    (this.errorCount = 0),
o.addLogFilterSupport(this, { configuration: e }),
    (this.configuration = e),
    (this.stdout = t),
    (this.suggestInstall = r)
  }
  static async start(e, t) {
    const r = new this(e)
    try {
      await t(r)
    } catch (e) {
      r.reportExceptionOnce(e)
    } finally {
      await r.finalize()
    }
    return r
  }
  hasErrors() {
    return this.errorCount > 0
  }
  exitCode() {
    return this.hasErrors() ? 1 : 0
  }
  reportCacheHit(e) {}
  reportCacheMiss(e) {}
  startTimerSync(e, t, r) {
    return ('function' == typeof t ? t : r)()
  }
  async startTimerPromise(e, t, r) {
    const A = 'function' == typeof t ? t : r
    return await A()
  }
  async startCacheReport(e) {
    return await e()
  }
  reportSeparator() {}
  reportInfo(e, t) {}
  reportWarning(e, t) {}
  reportError(e, t) {
    (this.errorCount += 1),
  }
}
```

---

Open Source Used In Cisco Cloud Mailbox Defense - CMD (Project Raptor) April 2021  20301
```javascript
this.stdout.write(
  `$\{o.pretty(
      this.configuration,
      '',
      'redBright',
    )\} $\{this.formatNameWithHyperlink(e)\}: $\{t\}n`
)
)
}
reportProgress(e) {
  return {
    ...Promise.resolve().then(async () => {
      for await (const {} of e);
    }),
    stop: () => {},
  }
}
reportJson(e) {}
static async tryFind(e, { baseFs: t = new A.S() } = {}) {
    const r = n.y1.join(e, 'package.json')
    return (await t.existsPromise(r))
        ? await l.fromFile(r, { baseFs: t })
        : null
}

static async find(e, { baseFs: t } = {}) {
    const r = await l.tryFind(e, { baseFs: t })
    if (null === r) throw new Error('Manifest not found')
    return r
}

static async fromFile(e, { baseFs: t = new A.S() } = {}) {
    const r = new l()
    return await r.loadFile(e, { baseFs: t }), r
}

static fromText(e) {
    const t = new l()
    return t.loadFromText(e), t
}

static isManifestFieldCompatible(e, t) {
if (null === e) return !0
let r = !0,
A = !1
for (const n of e)
  if ('!' === n[0]) {
    if (((A = !0), t === n.slice(1))) return !1
  } else if (((r = !1), n === t)) return !0
return A && r
}

loadFromText(e) {
  let t
  try {
    t = JSON.parse(h(e) || '{}')
  } catch (t) {
    throw ((t.message += ` (when parsing ${e})`), t)
  }
  this.load(t), (this.indent = u(e))
}

async loadFile(e, { baseFs: t = new A.S() }) {
  const r = await t.readFilePromise(e, 'utf8')
  let n
  try {
    n = JSON.parse(h(r) || '{}')
  } catch (t) {
    throw ((t.message += ` (when parsing ${e})`), t)
  }
  this.load(n), (this.indent = u(r))
}

load(e, { yamlCompatibilityMode: t = !1 } = {}) {
  if ('object' != typeof e || null === e)
    throw new Error(`Utterly invalid manifest data (${e})`)
  this.raw = e
  const r = []
  if ('string' === typeof e.name)
    try {
      this.name = g.parseIdent(e.name)
    } catch (e) {
      r.push(new Error("Parsing failed for the 'name' field"))
    }
  if ('string' === typeof e.version && (this.version = e.version),
    Array.isArray(e.os)) {
    const t = []
    this.os = t
    for (const A of e.os)
      'string' !== typeof A
        ? r.push(new Error("Parsing failed for the 'os' field"))
: t.push(A)
}

if (Array.isArray(e.cpu)) {
    const t = []
    this.cpu = t
    for (const A of e.cpu)
        'string' !== typeof A
            ? r.push(new Error("Parsing failed for the 'cpu' field"))
            : t.push(A)
    }

if ('
    ('string' == typeof e.type & (this.type = e.type),
    'boolean' == typeof e.private & (this.private = e.private),
    'string' == typeof e.license & (this.license = e.license),
    'string' == typeof e.languageName &
            (this.languageName = e.languageName),
    'string' == typeof e.main & (this.main = p(e.main)),
    'string' == typeof e.module & (this.module = p(e.module)),
    null !== e.browser)
    )
    if ('string' == typeof e.browser) this.browser = p(e.browser)
else {
    this.browser = new Map()
    for (const [t, r] of Object.entries(e.browser))
        this.browser.set(p(t), 'string' == typeof r ? p(r) : r)
    }

if ('string' == typeof e.bin)
null !== this.name
    ? (this.bin = new Map([this.name.name, p(e.bin)])
        : r.push(
            new Error('String bin field, but no attached package name'),
    })
else if ('object' == typeof e.bin & null !== e.bin)
for (const [t, A] of Object.entries(e.bin))
    'string' == typeof A
        ? this.bin.set(t, p(A))
        : r.push(new Error('Invalid bin definition for '${t}'))
if ('object' == typeof e.scripts & null !== e.scripts)
for (const [t, A] of Object.entries(e.scripts))
    'string' == typeof A
        ? this.scripts.set(t, A)
        : r.push(new Error('Invalid script definition for '${t}'))
if ('object' == typeof e.dependencies & null !== e.dependencies)
for (const [t, A] of Object.entries(e.dependencies)) {
    if ('string' !== typeof A) {
        r.push(new Error('Invalid dependency range for '${t}'))
        continue
    }
let e
try {
  e = g.parseIdent(t)
} catch (e) {
  r.push(
    new Error("Parsing failed for the dependency name '${t}'"),
  )
  continue
}
const n = g.makeDescriptor(e, A)
this.dependencies.set(n.identHash, n)
}
if (  
  'object' == typeof e.devDependencies &&  
  null !== e.devDependencies  
)  
for (const [t, A] of Object.entries(e.devDependencies)) {  
  if ('string' !== typeof A) {  
    r.push(new Error("Invalid dependency range for '${t}'"))  
    continue  
  }
  let e
  try {  
    e = g.parseIdent(t)  
  } catch (e) {  
    r.push(  
      new Error("Parsing failed for the dependency name '${t}'"),  
    )  
    continue
  }
  const n = g.makeDescriptor(e, A)
  this.devDependencies.set(n.identHash, n)
}  
if (  
  'object' == typeof e.peerDependencies &&  
  null !== e.peerDependencies  
)  
for (let [t, A] of Object.entries(e.peerDependencies)) {  
  let e
  try {  
    e = g.parseIdent(t)  
  } catch (e) {  
    r.push(  
      new Error("Parsing failed for the dependency name '${t}'"),  
    )  
    continue
  }
  ;('string' == typeof A && c.validRange(A)) ||
(r.push(new Error("Invalid dependency range for \'$\{t\}'")),
  (A = "*")))
const n = g.makeDescriptor(e, A)
this.peerDependencies.set(n.identHash, n)
}

'object' == typeof e.workspaces &&
e.workspaces.nohoist &&
r.push(
  new Error(
    "'nohoist' is deprecated, please use 'installConfig.hoistingLimits' instead",
  ),
)

const A = Array.isArray(e.workspaces)
  ? e.workspaces
  : 'object' == typeof e.workspaces &&
    null !== e.workspaces &&
    Array.isArray(e.workspaces.packages)
  ? e.workspaces.packages
  : []

for (const e of A)
  'string' == typeof e
    ? this.workspaceDefinitions.push({ pattern: e })
    : r.push(new Error("Invalid workspace definition for \'$\{e\}'"))
if (
  'object' == typeof e.dependenciesMeta &&
  null !== e.dependenciesMeta
)

  for (const [A, n] of Object.entries(e.dependenciesMeta)) {
    if (null !== n || null !== A) {
      r.push(new Error("Invalid meta field for \'$\{A\}'"))
      continue
    }
    const e = g.parseDescriptor(A),
    o = this.ensureDependencyMeta(e),
    i = d(n.built, { yamlCompatibilityMode: t })
    if (null !== i) {
      r.push(new Error("Invalid built meta field for \'$\{A\}'"))
      continue
    }
    const s = d(n.optional, { yamlCompatibilityMode: t })
    if (null !== s) {
      r.push(new Error("Invalid optional meta field for \'$\{A\}'"))
      continue
    }
    const a = d(n.unplugged, { yamlCompatibilityMode: t })
    if (null !== a)
      Object.assign(o, { built: i, optional: s, unplugged: a })
    : r.push(new Error("Invalid unplugged meta field for \'$\{A\}'"))
if ('object' == typeof e.peerDependenciesMeta &&
null !== e.peerDependenciesMeta)

for (const [A, n] of Object.entries(e.peerDependenciesMeta)) {
  if ('object' != typeof n || null === n) {
    r.push(new Error('Invalid meta field for '${A}'))
    continue
  }

  const e = g.parseDescriptor(A),
  o = this.ensurePeerDependencyMeta(e),
  i = d(n.optional, { yamlCompatibilityMode: t })
  null !== i
  ? Object.assign(o, { optional: i })
  : r.push(new Error('Invalid optional meta field for '${A}'))
}

if ('object' == typeof e.resolutions && null !== e.resolutions)
for (const [t, A] of Object.entries(e.resolutions))
  if ('string' == typeof A)
    try {
      this.resolutions.push({
        pattern: (0, o.parseResolution)(t),
        reference: A,
      })
    } catch (e) {
      r.push(e)
      continue
    }
  else r.push(new Error('Invalid resolution entry for '${t}'))

if (Array.isArray(e.files)) {
  this.files = new Set()
  for (const t of e.files)
    if ('string' == typeof t)
      ? this.files.add(t)
      : r.push(new Error('Invalid files entry for '${t}'))
}

if ('object' == typeof e.publishConfig &&
null !== e.publishConfig)
{
  if ( ((this.publishConfig = {}),
    'string' == typeof e.publishConfig.access &&
    (this.publishConfig.access = e.publishConfig.access),
    'string' == typeof e.publishConfig.main &&
    (this.publishConfig.main = p(e.publishConfig.main)),
    'string' == typeof e.publishConfig.module &&
    (this.publishConfig.module = x(e.publishConfig.module)),
    'string' == typeof e.publishConfig.format &&
    (this.publishConfig.format = x(e.publishConfig.format)))
  )
    r.push(new Error('Invalid publish config'))
}
(this.publishConfig.module = p(e.publishConfig.module)),
null != e.publishConfig.browser)
)
if ('string' == typeof e.publishConfig.browser)
  this.publishConfig.browser = p(e.publishConfig.browser)
else {
  this.publishConfig.browser = new Map()
  for (const [t, r] of Object.entries(e.publishConfig.browser))
    this.publishConfig.browser.set(
      p(t),
      'string' == typeof r ? p(r) : r,
    )
}

if (
  ('string' == typeof e.publishConfig.registry &&
   (this.publishConfig.registry = e.publishConfig.registry),
  'string' == typeof e.publishConfig.bin)
)
null !== this.name
  ? (this.publishConfig.bin = new Map([
        [this.name.name, p(e.publishConfig.bin)]
      ]))
    : r.push(
      new Error('String bin field, but no attached package name',
    ),
  )
else if (
  'object' == typeof e.publishConfig.bin &&
  null !== e.publishConfig.bin
) {
  this.publishConfig.bin = new Map()
  for (const [t, A] of Object.entries(e.publishConfig.bin))
    'string' == typeof A
      ? this.publishConfig.bin.set(t, p(A))
        : r.push(new Error('Invalid bin definition for ' + t))
}
if (Array.isArray(e.publishConfig.executableFiles)) {
  this.publishConfig.executableFiles = new Set()
  for (const t of e.publishConfig.executableFiles)
    'string' == typeof t
      ? this.publishConfig.executableFiles.add(p(t))
        : r.push(new Error('Invalid executable file definition'))
}
}

if (
  'object' == typeof e.installConfig &&
  null !== e.installConfig
) {  
    this.installConfig = {}  
    for (const t of Object.keys(e.installConfig))  
      'hoistingLimits' === t  
      ? 'string' === typeof e.installConfig.hoistingLimits  
      ? (this.installConfig.hoistingLimits =  
          e.installConfig.hoistingLimits)  
      : r.push(new Error('Invalid hoisting limits definition'))  
      : r.push(new Error('Unrecognized installConfig key: ' + t))  
  }  
  if (  
    'object' === typeof e.optionalDependencies &&  
    null !== e.optionalDependencies  
  )  
    for (const [t, A] of Object.entries(e.optionalDependencies)) {  
      if ('string' !== typeof A) {  
        r.push(new Error('Invalid dependency range for '${t}'))  
        continue  
      }  
      let e  
      try {  
        e = g.parseIdent(t)  
      } catch (e) {  
        r.push(  
          new Error('Parsing failed for the dependency name '${t})  
        )  
        continue  
      }  
      const n = g.makeDescriptor(e, A)  
      this.dependencies.set(n.identHash, n)  
      const o = g.makeDescriptor(e, 'unknown'),  
                i = this.ensureDependencyMeta(o)  
      Object.assign(i, { optional: !0 })  
    }  
    'boolean' === typeof e.preferUnplugged &&  
    (this.preferUnplugged = e.preferUnplugged),  
    (this.errors = r)  
  }  
  getForScope(e) {  
    switch (e) {  
      case 'dependencies':  
        return this.dependencies  
      case 'devDependencies':  
        return this.devDependencies  
      case 'peerDependencies':  
        return this.peerDependencies  
      default:  
        throw new Error('Unsupported value ("$e")')  
    }  
  }
hasConsumerDependency(e) {
  return (!this.dependencies.has(e.identHash) ||
            !this.peerDependencies.has(e.identHash));
}

hasHardDependency(e) {
  return (!this.dependencies.has(e.identHash) ||
           !this.devDependencies.has(e.identHash));
}

hasSoftDependency(e) {
  return !this.peerDependencies.has(e.identHash);
}

hasDependency(e) {
  return !this.hasHardDependency(e) || !this.hasSoftDependency(e);
}

isCompatibleWithOS(e) {
  return l.isManifestFieldCompatible(this.os, e);
}

isCompatibleWithCPU(e) {
  return l.isManifestFieldCompatible(this.cpu, e);
}

ensureDependencyMeta(e) {
  if ('unknown' !== e.range && !s().valid(e.range))
    throw new Error(`Invalid meta field range for '${g.stringifyDescriptor(e)}'`);
  const t = g.stringifyIdent(e);
  r = 'unknown' !== e.range ? e.range : null
  let A = this.dependenciesMeta.get(t);
  if (A || this.dependenciesMeta.set(t, (A = new Map())))
    let n = A.get(r);
    return n || A.set(r, (n = {})), n;
}

ensurePeerDependencyMeta(e) {
  if ('unknown' !== e.range)
    throw new Error(`Invalid meta field range for '${g.stringifyDescriptor(e)}'`);
  const t = g.stringifyIdent(e);
  let r = this.peerDependenciesMeta.get(t);
  let n = A.get(r);
  return r || this.peerDependenciesMeta.set(t, (r = {})), r;
}

setRawField(e, t, { after: r = [] } = {}) {
const A = new Set(
r.filter((e) =>
    Object.prototype.hasOwnProperty.call(this.raw, e),
),
)

if (
    0 === A.size ||
    Object.prototype.hasOwnProperty.call(this.raw, e)
)

this.raw[e] = t
else {
    const r = this.raw,
    n = (this.raw = {})
    let o = !1
    for (const i of Object.keys(r))
        (n[i] = r[i]),
        o ||= (A.delete(i), 0 === A.size && ((n[e] = t), (o = !0)))
}

exportTo(e, { compatibilityMode: t = !0 } = {}) {
    if (Object.assign(e, this.raw),
        null !== this.name
            ? (e.name = g.stringifyIdent(this.name))
            : delete e.name,
        null !== this.version
            ? (e.version = this.version)
            : delete e.version,
        null !== this.os
            ? (e.os = this.os)
            : delete e.os,
        null !== this.cpu
            ? (e.cpu = this.cpu)
            : delete e.cpu,
        null !== this.type
            ? (e.type = this.type)
            : delete e.type,
        this.private
            ? (e.private = !0)
            : delete e.private,
        null !== this.license
            ? (e.license = this.license)
            : delete e.license,
        null !== this.languageName
            ? (e.languageName = this.languageName)
            : delete e.languageName,
        null !== this.main
            ? (e.main = this.main)
            : delete e.main,
        null !== this.module
            ? (e.module = this.module)
            : delete e.module,
        null !== this.browser)
    ) {
        const t = this.browser
        'string' === typeof t
            ? (e.browser = t)
            : t instanceof Map &&
            (e.browser = Object.assign(
                {},
            ),
        )
    }
...Array.from(t.keys())
  .sort()
  .map((e) => ({ [e]: t.get(e) })),
))
] else delete e.browser
1 === this.bin.size &&
null !== this.name &&
this.bin.has(this.name.name)
? (e.bin = this.bin.get(this.name.name))
: this.bin.size > 0
? (e.bin = Object.assign(
  {},
...Array.from(this.bin.keys())
  .sort()
  .map(e => ({ [e]: this.bin.get(e) })),
))
: delete e.bin,
this.workspaceDefinitions.length > 0
? this.raw.workspaces && !Array.isArray(this.raw.workspaces)
? (e.workspaces = [
...this.raw.workspaces,
  packages: this.workspaceDefinitions.map(
    ( { pattern: e } ) => e,
  ),
])
: (e.workspaces = this.workspaceDefinitions.map(
  ( { pattern: e } ) => e,
))
: this.raw.workspaces &&
!Array.isArray(this.raw.workspaces) &&
Object.keys(this.raw.workspaces).length > 0
? (e.workspaces = this.raw.workspaces)
: delete e.workspaces
const r = [],
A = []
for (const e of this.dependencies.values()) {
  const n = this.dependenciesMeta.get(g.stringifyIdent(e))
  let o = !1
  if (t && n) {
    const e = n.get(null)
    e && e.optional && (o = !0)
  } 
  o ? A.push(e) : r.push(e)
}
  r.length > 0
? (e.dependencies = Object.assign(
  {},
  ...

.sortDescriptors(r)
.map(e => ({ [g.stringifyIdent(e)]: e.range })),
)
: delete e.dependencies,
A.length > 0
? (e.optionalDependencies = Object.assign(
    {},
    ...
    .sortDescriptors(A)
    .map((e) => ({ [g.stringifyIdent(e)]: e.range })),
  ))
    : delete e.optionalDependencies,
this.devDependencies.size > 0
? (e.devDependencies = Object.assign(
    {},
    ...
    .sortDescriptors(this.devDependencies.values())
    .map((e) => ({ [g.stringifyIdent(e)]: e.range })),
  ))
    : delete e.devDependencies,
this.peerDependencies.size > 0
? (e.peerDependencies = Object.assign(
    {},
    ...
    .sortDescriptors(this.peerDependencies.values())
    .map((e) => ({ [g.stringifyIdent(e)]: e.range })),
  ))
    : delete e.peerDependencies,
(e.dependenciesMeta = { })
for (const [r, A] of a.sortMap(
  this.dependenciesMeta.entries(),
  ([e, t]) => e,
))
for (const [n, o] of a.sortMap(A.entries(), ([e, t]) =>
  null !== e ? '0' + e : '1',
)) {
  const A =
    null !== n
    ? g.stringifyDescriptor(
    g.makeDescriptor(g.parseIdent(r), n),
  )
    : r,
  i = { },
  t && null === n && delete i.optional,
  0 !== Object.keys(i).length && (e.dependenciesMeta[A] = i)
)}
return (0 !== Object.keys(e.dependenciesMeta).length &&
delete e.dependenciesMeta,
this.peerDependenciesMeta.size > 0
? (e.peerDependenciesMeta = Object.assign({

...a
  .sortMap(
      this.peerDependenciesMeta.entries(),
      ([e, t]) => e,
      )
  .map(([e, t]) => ({ [e]: t })),
  ))
: delete e.peerDependenciesMeta,
this.resolutions.length > 0
? (e.resolutions = Object.assign({

...this.resolutions.map(( { pattern: e, reference: t } ) => {

  [[0, o.stringifyResolution(e)]: t,
  ]}),
  ))
: delete e.resolutions,
null !== this.files
? (e.files = Array.from(this.files))
: delete e.files,
null !== this.preferUnplugged
? (e.preferUnplugged = this.preferUnplugged)
: delete e.preferUnplugged,
e
}
)
}

function u(e) {
  const t = e.match(/^[ \t\]+/m)
  return t ? t[0] : '  '
}

function h(e) {
  return 65279 === e.charCodeAt(0) ? e.slice(1) : e
}

function p(e) {
  return e.replace(/\/g, '/
}

function d(e, { yamlCompatibilityMode: t }) {
  return t
  ? a.tryParseOptionalBoolean(e)
  : void 0 === e || 'boolean' === typeof e
  ? e
  : null
}

;

(l.fileName = 'package.json'),
(l.allDependencies = [
    'dependencies',
    'devDependencies',
    'peerDependencies',
],
(l.hardDependencies = ['dependencies', 'devDependencies'])
},
92659: (e, t, r) => {
    'use strict'
    var A
    function n(e) {
        return 'YN' + e.toString(10).padStart(4, '0')
    }
    r.d(t, { b: () => A, i: () => n }),
    (function (e) {
        (e[(e.UNNAMED = 0)] = 'UNNAMED'),
        (e[(e.EXCEPTION = 1)] = 'EXCEPTION'),
        (e[(e.MISSING_PEER_DEPENDENCY = 2)] = 'MISSING_PEER_DEPENDENCY'),
        (e[(e.CYCLIC_DEPENDENCIES = 3)] = 'CYCLIC_DEPENDENCIES'),
        (e[(e.DISABLED_BUILD_SCRIPTS = 4)] = 'DISABLED_BUILD_SCRIPTS'),
        (e[(e.BUILD_DISABLED = 5)] = 'BUILD_DISABLED'),
        (e[(e.SOFT_LINK_BUILD = 6)] = 'SOFT_LINK_BUILD'),
        (e[(e.MUST_BUILD = 7)] = 'MUST_BUILD'),
        (e[(e.MUST_REBUILD = 8)] = 'MUST_REBUILD'),
        (e[(e.BUILD_FAILED = 9)] = 'BUILD_FAILED'),
        (e[(e.RESOLVER_NOT_FOUND = 10)] = 'RESOLVER_NOT_FOUND'),
        (e[(e.FETCHER_NOT_FOUND = 11)] = 'FETCHER_NOT_FOUND'),
        (e[(e.LINKER_NOT_FOUND = 12)] = 'LINKER_NOT_FOUND'),
        (e[(e.FETCH_NOT_CACHED = 13)] = 'FETCH_NOT_CACHED'),
        (e[(e.YARN_IMPORT_FAILED = 14)] = 'YARN_IMPORT_FAILED'),
        (e[(e.REMOTE_INVALID = 15)] = 'REMOTE_INVALID'),
        (e[(e.RESOLUTION_PACK = 17)] = 'RESOLUTION_PACK'),
        (e[(e.CACHE_CHECKSUM_MISMATCH = 18)] = 'CACHE_CHECKSUM_MISMATCH'),
        (e[(e.UNUSED_CACHE_ENTRY = 19)] = 'UNUSED_CACHE_ENTRY'),
        (e[(e.MISSING_LOCKFILE_ENTRY = 20)] = 'MISSING_LOCKFILE_ENTRY'),
        (e[(e.WORKSPACE_NOT_FOUND = 21)] = 'WORKSPACE_NOT_FOUND'),
        (e[(e.TOO_MANY_MATCHING_WORKSPACES = 22)] =
            'TOO_MANY_MATCHING_WORKSPACES'),
        (e[(e.CONSTRAINTS_MISSING_DEPENDENCY = 23)] =
            'CONSTRAINTS_MISSING_DEPENDENCY'),
        (e[(e.CONSTRAINTS_INCOMPATIBLE_DEPENDENCY = 24)] =
            'CONSTRAINTS_INCOMPATIBLE_DEPENDENCY'),
        (e[(e.CONSTRAINTS_EXTRANEOUS_DEPENDENCY = 25)] =
            'CONSTRAINTS_EXTRANEOUS_DEPENDENCY'),
        (e[(e.CONSTRAINTS_INVALID_DEPENDENCY = 26)] =
            'CONSTRAINTS_INVALID_DEPENDENCY'),
        (e[(e.CANT_SUGGEST_RESOLUTIONS = 27)] =
            'CANT_SUGGEST_RESOLUTIONS'),
(e[(e.DEPRECATED_PACKAGE = 61)] = 'DEPRECATED_PACKAGE'),
(e[(e.INCOMPATIBLE_OS = 62)] = 'INCOMPATIBLE_OS'),
(e[(e.INCOMPATIBLE_CPU = 63)] = 'INCOMPATIBLE_CPU'),
(e[(e.FROZEN_ARTIFACT_EXCEPTION = 64)] =
'FROZEN_ARTIFACT_EXCEPTION'),
(e[(e.TELEMETRY_NOTICE = 65)] = 'TELEMETRY_NOTICE'),
(e[(e.PATCH_HUNK_FAILED = 66)] = 'PATCH_HUNK_FAILED'),
(e[(e.INVALID_CONFIGURATION_VALUE = 67)] =
'INVALID_CONFIGURATION_VALUE'),
(e[(e.UNUSED_PACKAGE_EXTENSION = 68)] =
'UNUSED_PACKAGE_EXTENSION'),
(e[(e.REDUNDANT_PACKAGE_EXTENSION = 69)] =
'REDUNDANT_PACKAGE_EXTENSION')
})(A || (A = {}))

27092: (e, t, r) => {
 'use strict'
 r.d(t, { B: () => n })
 var A = r(54143)
 class n {
   constructor(e) {
     this.resolvers = e.filter((e) => e)
   }
   supportsDescriptor(e, t) {
     return !!this.tryResolverByDescriptor(e, t)
   }
   supportsLocator(e, t) {
     return !!this.tryResolverByLocator(e, t)
   }
   shouldPersistResolution(e, t) {
     return this.getResolverByLocator(e, t).shouldPersistResolution(e, t)
   }
   bindDescriptor(e, t, r) {
     return this.getResolverByDescriptor(e, r).bindDescriptor(e, t, r)
   }
   getResolutionDependencies(e, t) {
     return this.getResolverByDescriptor(e, t).getResolutionDependencies(e,
     t,
     )
   }
   async getCandidates(e, t, r) {
     const A = this.getResolverByDescriptor(e, r)
     return await A.getCandidates(e, t, r)
   }
   async getSatisfying(e, t, r) {
     return this.getResolverByDescriptor(e, r).getSatisfying(e, t, r)
   }
}
async resolve(e, t) {
    const r = this.getResolverByLocator(e, t)
    return await r.resolve(e, t)
}

tryResolverByDescriptor(e, t) {
    const r = this.resolvers.find((r) => r.supportsDescriptor(e, t))
    return r || null
}

getResolverByDescriptor(e, t) {
    const r = this.resolvers.find((r) => r.supportsDescriptor(e, t))
    if (!r)
        throw new Error(
            A.prettyDescriptor(t.project.configuration, e) +
            " isn't supported by any available resolver",
        )
    return r
}

tryResolverByLocator(e, t) {
    const r = this.resolvers.find((r) => r.supportsLocator(e, t))
    return r || null
}

getResolverByLocator(e, t) {
    const r = this.resolvers.find((r) => r.supportsLocator(e, t))
    if (!r)
        throw new Error(
            A.prettyLocator(t.project.configuration, e) +
            " isn't supported by any available resolver",
        )
    return r
}

'use strict'

function c() {}

function g(e, t, r, A, n) {
    for (var o = 0, i = t.length, s = 0, a = 0; o < i; o++) {
        var c = t[o]
        if (c.removed) {
            if (c.value = e.join(A.slice(a, a + c.count)),

(a += c.count),
o && t[o - 1].added)
} {
    var g = t[o - 1]
    ;(t[o - 1] = t[o]), (t[o] = g)
}
} else {
    if (!c.added && n) {
        var l = r.slice(s, s + c.count)
        ;(l = l.map(function (e, t) {
            var r = A[a + t]
            return r.length > e.length ? r : e
        })),
        (c.value = e.join(l))
    } else c.value = e.join(r.slice(s, s + c.count))
    ;(s += c.count), c.added || (a += c.count)
}
}
var u = t[i - 1]
return (
    i > 1 &&
    'string' == typeof u.value &&
    (u.added || u.removed) &&
    e.equals('', u.value) &&
    ((t[i - 2].value += u.value), t.pop()),
    t
)
}
function l(e) {
    return { newPos: e.newPos, components: e.components.slice(0) }
}
}
c.prototype = {
    diff: function (e, t) {
        var r =
            arguments.length > 2 && void 0 !== arguments[2]
            ? arguments[2]
            : {},
        A = r.callback
        'function' == typeof r && ((A = r), (r = {})), (this.options = r)
        var n = this
        function o(e) {
            return A
            ? (setTimeout(function () {
                A(void 0, e)
            }, 0),
                !0)
            : e
        }
    }
}
pushComponent: function (e, t, r) {
    var A = e[e.length - 1]
    A && A.added === t && A.removed === r
    ? (e[e.length - 1] = { count: A.count + 1, added: t, removed: r })
    : e.push({ count: 1, added: t, removed: r })
},
extractCommon: function (e, t, r, A) {
    for (
        var n = t.length, o = r.length, i = e.newPos, s = i - A, a = 0;
        i + 1 < n && s + 1 < o && this.equals(t[i + 1], r[s + 1]);
    )
    i++, s++, a++
    return a && e.components.push({ count: a }), (e.newPos = i), s
},
equals: function (e, t) {
    return this.options.comparator
    ? this.options.comparator(e, t)
    : e === t ||
    (this.options.ignoreCase &&
    e.toLowerCase() === t.toLowerCase())
},
removeEmpty: function (e) {
    for (var t = [], r = 0; r < e.length; r++) e[r] && t.push(e[r])
    return t
},
castInput: function (e) {
    return e
},
tokenize: function (e) {
    return e.split('')
},
join: function (e) {
    return e.join('')
},
}
new c()
var u = '/^[A-Za-z\x00-\u02C6-\u02D7\u02DE-\u02FF\u1E00-\u1EFF]+$/u,
h = /\S/,
p = new c()
p.equals = function (e, t) {
    return (this.options.ignoreCase &&
    ((e = e.toLowerCase()), (t = t.toLowerCase()),
    e === t ||
    (this.options.ignoreWhitespace && !h.test(e) && !h.test(t))
    )
})
},
(p.tokenize = function (e) {
    for (var t = e.split(/\s+\[\(\[\]\){\}''\"\]}/b), r = 0;
        r < t.length - 1;
        r++)
    !t[r + 1] &&
    t[r + 2] &&
    u.test(t[r]) &&
    u.test(t[r + 2]) &&
    ((t[r] += t[r + 2]), t.splice(r + 1, 2), r--)
    return t
});
var d = new c()
d.tokenize = function (e) {
    var t = [],
        r = e.split(/\n\r\n/)
    r[r.length - 1] || r.pop()
    for (var A = 0; A < r.length; A++) {
        var n = r[A]
        A % 2 && !this.options.newLineIsToken
            ? (t[t.length - 1] += n)
            : (this.options.ignoreWhitespace && (n = n.trim()), t.push(n))
    }
    return t
}
var C = new c()
C.tokenize = function (e) {
    return e.split(/(\S.+?[^?!?!])\s+?/)
}
var f = new c()
function I(e) {
    return (I =
    'function' == typeof Symbol && 'symbol' == typeof Symbol.iterator
    ? function (e) {
        return typeof e
    }
    : function (e) {
        return e &&
        'function' == typeof Symbol &&
e.constructor === Symbol &&
e !== Symbol.prototype
        ? 'symbol'
        : typeof e
    })(e)
}
function E(e) {
    return (}
function (e) {
    if (Array.isArray(e)) {
        for (var t = 0, r = new Array(e.length); t < e.length; t++)
            r[t] = e[t]
        return r
    }
})

(function (e) {
    if (Symbol.iterator in Object(e) || '[object Arguments]' === Object.prototype.toString.call(e))
        return Array.from(e)
})

throw new TypeError('Invalid attempt to spread non-iterable instance', )
}

f.tokenize = function (e) {
    return e.split(/(\[{}:;\s,\]]+)/)
}

var B = Object.prototype.toString,
    y = new c()
(y.useLongestToken = !0),
(y.tokenize = d.tokenize),
(y.castInput = function (e) {
    var t = this.options,
        r = t.undefinedReplacement,
        A = t.stringifyReplacer,
        n =

    void 0 === A
    ? function (e, t) {
        return void 0 === t ? r : t
    }
    : A

    return 'string' == typeof e
    ? e
    : JSON.stringify(
        function (e, t, r, A, n, o) {
            (r = r || []). (A = A || []), n && (t = n(o, t))
        var i, s
            for (i = 0; i < r.length; i += 1)
                if (r[i] === t) return A[i]
            if ('[object Array]' === B.call(t)) {
                for (i = 0; i < r.length; i ++)
r.push(t), s = new Array(t.length), A.push(s), i = 0;
i < t.length;
i += 1
)
s[i] = e(t[i], r, A, n, o)
return r.pop(), A.pop(), s
}
t && t.toJSON && (t = t.toJSON())
if ('object' === I(t) && null !== t) {
r.push(t), (s = {}), A.push(s)
var a,
c = []
for (a in t) t.hasOwnProperty(a) && c.push(a)
c.sort(), i = 0; i < c.length; i += 1)
(a = c[i]), (s[a] = e(t[a], r, A, n, a))
r.pop(), A.pop()
} else s = t
return s
})(e, null, null, n),
n,'',
},
),
y.equals = function (e, t) {
return c.prototype.equals.call(
y,
e.replace(/,(
\])/g, '$1'),
t.replace(/,\r\n\n/g, '$1'),
)
})
var m = new c()
function w(e, t, r, A, n, o, i) {
i || (i = {}), void 0 === i.context && (i.context = 4)
var s = (function (e, t, r) {
return d.diff(e, t, r)
})(r, A, i)
function a(e) {
return e.map(function (e) {
return '' + e
})
}
s.push({ value: ", lines: [] })
for (var c = [],
g = 0,
l = 0,
u = [],
h = 1,
```javascript
p = 1,
C = function (e) {
  var t = s[e],
  n = t.lines || t.value.replace(/\n$/,.).split('n')
if (((t.lines = n), t.added || t.removed)) {
  var o
  if (!g) {
    var d = s[e - 1]
    (g = h),
    (l = p),
    d &&
    (u =
      i.context > 0 ? a(d.lines.slice(-i.context)) : []),
    (g -= u.length),
    (l -= u.length))
  }
  (o = u).push.apply(
    o,
    E(
      n.map(function (e) {
        return (t.added ? '+' : '-' ) + e
      })),
    ),
    ),
  t.added ? (p += n.length) : (h += n.length)
} else {
  if (g)
    if (n.length <= 2 * i.context && e < s.length - 2) {
      var C
      :(C = u).push.apply(C, E(a(n)))
    } else {
      var f,
      I = Math.min(n.length, i.context)
      :(f = u).push.apply(f, E(a(n.slice(0, I))))
      var B = [
        oldStart: g,
        oldLines: h - g + I,
        newStart: l,
        newLines: p - l + I,
        lines: u,
      ]
    }
  if (e >= s.length - 2 && n.length <= i.context) {
    var y = /
      m = /
      w = 0 == n.length && u.length > B.oldLines
    !y &&
    w &&
    u.splice(0, B.oldLines
```
B.oldLines,
0,
'\No newline at end of file',
),
((y || w) && m) ||
  u.push('\No newline at end of file')
  };
c.push(B), (g = 0), (l = 0), (u = [])
};(h += n.length), (p += n.length)
};

C(f)
return {
  oldFileName: e,
  newFileName: t,
  oldHeader: n,
  newHeader: o,
  hunks: c,
}
):

(m.tokenize = function (e) {
  return e.slice()
}),

(m.join = m.removeEmpty = function (e) {
  return e
})

var Q = r(75130),
D = r.n(Q),
b = r(61578),
v = r.n(b),
S = r(53887),
k = r.n(S),
N = r(31669)
const F = require('v8')
var K = r.n(F),
M = r(78761),
R = r.n(M),
x = r(39922),
L = r(92409),
P = r(92659),
O = r(54143)
const U = [
]
class T {
  constructor() {
    this.resolutions = null
  }
  async setup(e, { report: t }) {
    const r = n.y1.join(e.cwd, e.configuration.get('lockfileFilename'))
    if (!A.xfs.existsSync(r)) return
    const o = await A.xfs.readFilePromise(r, 'utf8'),
    s = (0, i.parseSyml)(o),
    a = (this.resolutions = new Map())
    for (const r of Object.keys(s)) {
      let A = O.tryParseDescriptor(r)
      if (!A) {
        t.reportWarning(P.b.YARN_IMPORT_FAILED,
          `Failed to parse the string "$\{r\}" into a proper descriptor`,
        )
        continue
      } k().validRange(A.range) &&
    }
  }
}
(A = O.makeDescriptor(A, 'npm:' + A.range))
const { version: n, resolved: o } = s[r]
if (!o) continue
let i
for (const [e, t] of U) {
    const r = o.match(e)
    if (r) {
        i = t(n, ...r)
        break
    }
}
if (!i) {
    t.reportWarning(
        P.b.YARN_IMPORT_FAILED,
        `$(O.prettyDescriptor(
            e.configuration,
            A,
        )): Only some patterns can be imported from legacy lockfiles (not "${o}"),
    )
    continue
}
const c = O.makeLocator(A, i)
a.set(A.descriptorHash, c)
}
supportsDescriptor(e, t) {
    return !!this.resolutions && this.resolutions.has(e.descriptorHash)
}
supportsLocator(e, t) {
    return !1
}
shouldPersistResolution(e, t) {
    throw new Error(
        "Assertion failed: This resolver doesn't support resolving locators to packages",
    )
}
bindDescriptor(e, t, r) {
    return e
}
getResolutionDependencies(e, t) {
    return []
}
async getCandidates(e, t, r) {
    if (!this.resolutions)
        throw new Error(
            'Assertion failed: The resolution store should have been setup',
        )
    const A = this.resolutions.get(e.descriptorHash)
if (!A)
throw new Error(
  'Assertion failed: The resolution should have been registered',
); return [A]
}
async getSatisfying(e, t, r) {
  return null
}
async resolve(e, t) {
  throw new Error(
    "Assertion failed: This resolver doesn't support resolving locators to packages",
  );
}

class j {
  supportsDescriptor(e, t) {
    return (!!t.project.storedResolutions.get(e.descriptorHash) ||
      !!t.project.originalPackages.has(O.convertDescriptorToLocator(e).locatorHash,)
    )
  }
  supportsLocator(e, t) {
    return !!t.project.originalPackages.has(e.locatorHash)
  }
  shouldPersistResolution(e, t) {
    throw new Error(
      "The shouldPersistResolution method shouldn't be called on the lockfile resolver, which would always
      answer yes",
    );
  }
  bindDescriptor(e, t, r) {
    return e
  }
  getResolutionDependencies(e, t) {
    return []
  }
  async getCandidates(e, t, r) {
    let A = r.project.originalPackages.get(O.convertDescriptorToLocator(e).locatorHash,)
    if (A) return [A]
    const n = r.project.storedResolutions.get(e.descriptorHash)
    if (!n)
      throw new Error(
        'Expected the resolution to have been successful - resolution not found',
      );
  }
}
```javascript
if (((A = r.project.originalPackages.get(n)), !A))
    throw new Error(
        'Expected the resolution to have been successful - package not found',
    )
return [A]
}
async getSatisfying(e, t, r) {
    return null
}
async resolve(e, t) {
    const r = t.project.originalPackages.get(e.locatorHash)
    if (!r)
        throw new Error(
            "The lockfile resolver isn't meant to resolve packages - they should already have been stored into a cache",
        )
    return r
}
var Y = r(46611),
G = r(27092),
H = r(35691)
class J {
    constructor(e) {
        this.resolver = e
    }
supportsDescriptor(e, t) {
        return this.resolver.supportsDescriptor(e, t)
    }
supportsLocator(e, t) {
        return this.resolver.supportsLocator(e, t)
    }
shouldPersistResolution(e, t) {
    return this.resolver.shouldPersistResolution(e, t)
}
bindDescriptor(e, t, r) {
    return this.resolver.bindDescriptor(e, t, r)
}
getResolutionDependencies(e, t) {
    return this.resolver.getResolutionDependencies(e, t)
}
async getCandidates(e, t, r) {
    throw new H.lk( 
        P.b.MISSING_LOCKFILE_ENTRY,
        "This package doesn't seem to be present in your lockfile; try to make an install to update your resolutions",
    )
}
async getSatisfying(e, t, r) {
```
throw new H.lk(P.b.MISSING_LOCKFILE_ENTRY, "This package doesn't seem to be present in your lockfile; try to make an install to update your resolutions", )
}
}
async resolve(e, t) {
throw new H.lk(P.b.MISSING_LOCKFILE_ENTRY, "This package doesn't seem to be present in your lockfile; try to make an install to update your resolutions", )
}
}
var q = r(33720),
z = r(17722),
W = r(81111),
X = r(71643),
V = r(20624),
_ = r(73632),
Z = r(63088),
$ = r(36545),
ee = r(32485)
const te = / *, */g,
re = /\$/,
Ae = (0, N.promisify)(R().gzip),
ne = (0, N.promisify)(R().gunzip),
oe = {
  restoreInstallersCustomData: ['installersCustomData'],
  restoreResolutions: [
    'accessibleLocators',
    'optionalBuilds',
    'storedDescriptors',
    'storedResolutions',
    'storedPackages',
    'lockFileChecksum',
  ],
}
class ie {
  constructor(e, { configuration: t }) {
    (this.resolutionAliases = new Map()),
    (this.workspaces = []),
    (this.workspacesByCwd = new Map()),
    (this.workspacesByIdent = new Map()),
    (this.storedResolutions = new Map()),
    (this.storedDescriptors = new Map()),
    (this.storedPackages = new Map()),
    (this.storedChecksums = new Map()),
    (this.accessibleLocators = new Set()),
    (this.originalPackages = new Map()),
(this.optionalBuilds = new Set()),
(this.peerRequirements = new Map()),
(this.installersCustomData = new Map()),
(this.lockFileChecksum = null),
(this.configuration = t),
(this.cwd = e)
}

static async find(e, t) {
  var r, o, i
  if (!e.projectCwd)
    throw new s.UsageError('No project found in ' + t)
  let a = e.projectCwd,
    c = t,
    g = null
  for (; g !== e.projectCwd; ) {
    if (((g = c), A.xfs.existsSync(n.y1.join(g, n.QS.manifest)))) {
      a = g
      break
    }
    c = n.y1.dirname(g)
  }
  const l = new ie(e.projectCwd, { configuration: e })
  null === (r = x.VK.telemetry) ||
  void 0 === r ||
  r.reportProject(l.cwd),
  await l.setupResolutions(),
  await l.setupWorkspaces(),
  null === (o = x.VK.telemetry) ||
  void 0 === o ||
  o.reportWorkspaceCount(l.workspaces.length),
  null === (i = x.VK.telemetry) ||
  void 0 === i ||
  i.reportDependencyCount(
    l.workspaces.reduce(  
      (e, t) =>
      e +
      t.manifest.dependencies.size +
      t.manifest.devDependencies.size,
      0,
    ),
  ),
  const u = l.tryWorkspaceByCwd(a)
  if (u)
    return { project: l, workspace: u, locator: u.anchoredLocator }
  const h = await l.findLocatorForLocation(a + '/', { strict: !0 })
  if (h) return { project: l, locator: h, workspace: null }
  throw new s.UsageError(  
    `The nearest package directory ` + X.pretty(
      process.cwd(),
      20333,
    )
  )
}
doesn't seem to be part of the project declared in ${X.pretty(e, l.cwd, X.Type.PATH, })}

- If the project directory is right, it might be that you forgot to list ${X.pretty(e, n.y1.relative(l.cwd, a), X.Type.PATH, )} as a workspace.
- If it isn't, it's likely because you have a yarn.lock or package.json file there, confusing the project root detection.

static generateBuildStateFile(e, t) {
  let r =
  '# Warning: This file is automatically generated. Removing it is fine, but will\n  # cause all your builds to become invalidated.'
  const A = [...e].map(([e, r]) => {
    const A = t.get(e)
    if (void 0 === A)
      throw new Error(
        'Assertion failed: The locator should have been registered',
      )
    return [O.stringifyLocator(A), A.locatorHash, r]
  })
  for (const [e, t, n] of _sortMap(A, [(e) => e[0], (e) => e[1]]))
    (r += '\n'),
    (r += '# ${e}\n'),
    (r += JSON.stringify(t) + '\n'),
    (r += `\n`) returning
  return r
}
async setupResolutions() {
  this.storedResolutions = new Map(),
  this.storedDescriptors = new Map(),
  this.storedPackages = new Map(),
  this.lockFileChecksum = null
  const e = n.y1.join(
    this.cwd,
    this.configuration.get('lockfileFilename'),
  ),
  t = this.configuration.get('defaultLanguageName')
  if (A.xfs.existsSync(e)) {
    const r = await A.xfs.readFilePromise(e, 'utf8')
    this.lockFileChecksum = V.makeHash('1', r)
    const n = (0, i.parseSyml)(r)
if (n.__metadata) {
  const e = n.__metadata.version,
  r = n.__metadata.cacheKey
for (const A of Object.keys(n)) {
  if ('__metadata' === A) continue
  const o = n[A]
  if (void 0 === o.resolution)
    throw new Error("Assertion failed: Expected the lockfile entry to have a resolution field (${A})",
    )
  const i = O.parseLocator(o.resolution, !0),
  s = new Y.G()
  s.load(o, { yamlCompatibilityMode: !0 })
  const a = s.version,
  c = s.languageName || t,
  g = o.linkType.toUpperCase(),
  l = s.dependencies,
  u = s.peerDependencies,
  h = s.dependenciesMeta,
  p = s.peerDependenciesMeta,
  d = s.bin
  if (null != o.checksum) {
    const e =
      void 0 === r || o.checksum.includes('/')
    ? o.checksum
      : `${r}/${o.checksum}`
    this.storedChecksums.set(i.locatorHash, e)
    }
  if (e >= 4) {
    const e = {
      ...i,
      version: a,
      languageName: c,
      linkType: g,
      dependencies: l,
      peerDependencies: u,
      dependenciesMeta: h,
      peerDependenciesMeta: p,
      bin: d,
    }
    this.originalPackages.set(e.locatorHash, e)
  }
  for (const t of A.split(te)) {
    const r = O.parseDescriptor(t)
    if (this.storedDescriptors.set(r.descriptorHash, r), e >= 4)
      this.storedResolutions.set(}
async setupWorkspaces() {
  ;(this.workspaces = []),
  (this.workspacesByCwd = new Map()),
  (this.workspacesByIdent = new Map())
let e = [this.cwd]
for (; e.length > 0; ) {
  const t = e
  e = []
  for (const r of t) {
    if (this.workspacesByCwd.has(r)) continue
    const t = await this.addWorkspace(r),
    A = this.storedPackages.get(t.anchoredLocator.locatorHash)
    A && (t.dependencies = A.dependencies)
    for (const r of t.workspacesCwds) e.push(r)
  }
}
async addWorkspace(e) {
  const t = new z.j(e, { project: this })
  await t.setup()
  const r = this.workspacesByIdent.get(t.locator.identHash)
  if (void 0 !== r)
    throw new Error(`Duplicate workspace name ${O.prettyIdent(
      this.configuration,
      t.locator,
    )}: ${e} conflicts with ${r.cwd}`,
  )
  return (
    this.workspaces.push(t),
    this.workspacesByCwd.set(e, t),
  )
}
get topLevelWorkspace() {
    return this.getWorkspaceByCwd(this.cwd)
}

tryWorkspaceByCwd(e) {
    n.y1.isAbsolute(e) || (e = n.y1.resolve(this.cwd, e)),
    (e = n.y1.normalize(e).replace(/\+/,$",))
    const t = this.workspacesByCwd.get(e)
    return t || null
}

getWorkspaceByCwd(e) {
    const t = this.tryWorkspaceByCwd(e)
    if (!t) throw new Error("Workspace not found (${e})")
    return t
}

tryWorkspaceByFilePath(e) {
    let t = null
    for (const r of this.workspaces) {
        n.y1.relative(r.cwd, e).startsWith(../) ||
        (t && t.cwd.length >= r.cwd.length) ||
        (t = r)
    }
    return t || null
}

getWorkspaceByFilePath(e) {
    const t = this.tryWorkspaceByFilePath(e)
    if (!t) throw new Error("Workspace not found (${e})")
    return t
}

tryWorkspaceByIdent(e) {
    const t = this.workspacesByIdent.get(e.identHash)
    return void 0 === t ? null : t
}

getWorkspaceByIdent(e) {
    const t = this.tryWorkspaceByIdent(e)
    if (!t) throw new Error(`Workspace not found (${O.prettyIdent(this.configuration, e)})`)
    return t
}

tryWorkspaceByDescriptor(e) {
    const t = this.tryWorkspaceByIdent(e)
    return null !== t && t.accepts(e.range) ? t : null
}
getWorkspaceByDescriptor(e) {
    const t = this.tryWorkspaceByDescriptor(e)
    if (null === t)
        throw new Error(`Workspace not found (${O.prettyDescriptor(this.configuration, e)}\n)`)
    return t
}

tryWorkspaceByLocator(e) {
    O.isVirtualLocator(e) && (e = O.devirtualizeLocator(e))
    const t = this.tryWorkspaceByIdent(e)
    return null === t ||
        (t.locator.locatorHash !== e.locatorHash &&
        t.anchoredLocator.locatorHash !== e.locatorHash)
    ? null : t
}

getWorkspaceByLocator(e) {
    const t = this.tryWorkspaceByLocator(e)
    if (!t)
        throw new Error(`Workspace not found (${O.prettyLocator(this.configuration, e)}\n)`)
    return t
}

refreshWorkspaceDependencies() {
    for (const e of this.workspaces) {
        const t = this.storedPackages.get(e.anchoredLocator.locatorHash)
        if (!t)
            throw new Error(`Assertion failed: Expected workspace to have been resolved`,
                        e.dependencies = new Map(t.dependencies)
        }
    }
}

forgetResolution(e) {
    const t = (e) => {
        this.storedResolutions.delete(e),
        this.storedDescriptors.delete(e)
    },
    r = (e) => {
        this.originalPackages.delete(e),
    }
}
this.storedPackages.delete(e),
this.accessibleLocators.delete(e)
}
if ('descriptorHash' in e) {
  const A = this.storedResolutions.get(e.descriptorHash)
  t(e.descriptorHash)
  const n = new Set(this.storedResolutions.values())
  void 0 === A || n.has(A) || r(A)
}
if ('locatorHash' in e) {
  r(e.locatorHash)
  for (const [r, A] of this.storedResolutions)
    A === e.locatorHash && t(r)
}
}
forgetTransientResolutions() {
  const e = this.configuration.makeResolver()
  for (const t of this.originalPackages.values()) {
    let r
    try {
      r = e.shouldPersistResolution(t, { project: this, resolver: e })
    } catch (e) {
      r = !1
    }
    r || this.forgetResolution(t)
  }
}
forgetVirtualResolutions() {
  for (const e of this.storedPackages.values())
    for (const [t, r] of e.dependencies)
      O.isVirtualDescriptor(r) &&
      e.dependencies.set(t, O.devirtualizeDescriptor(r))
}
getDependencyMeta(e, t) {
  const r = {},
    A = this.topLevelWorkspace.manifest.dependenciesMeta.get(
      O.stringifyIdent(e),
    )
  if (!A) return r
  const n = A.get(null)
  if ((n && Object.assign(r, n), null !== t || !k().valid(t)))
    return r
  for (const [e, n] of A) null !== e && e === t && Object.assign(r, n)
  return r
}
async findLocatorForLocation(e, { strict: t = !1 } = {}) {
  const r = new q.$(),
    A = this.configuration.getLinkers(),
   
n = { project: this, report: r }
for (const r of A) {
    const A = await r.findPackageLocator(e, n)
    if (A) {
        if (t) {
            if (
                (await r.findPackageLocation(A, n)).replace(re, '') !==
                e.replace(re, '')
            )
                continue
            }
        }
        return A
    }
}
return null

async resolveEverything(e) {
    if (!this.workspacesByCwd || !this.workspacesByIdent)
        throw new Error(
            'Workspaces must have been setup before calling this function',
        )
    this.forgetVirtualResolutions(),
    e.lockfileOnly || this.forgetTransientResolutions()
    const t = e.resolver || this.configuration.makeResolver(),
    r = new T()
    await r.setup(this, { report: e.report })
    const o = e.lockfileOnly
    ? new G.B([new j(), new J(t)])
    : new G.B([new j(), r, t]),
    i = this.configuration.makeFetcher(),
    s = e.lockfileOnly
    ? { project: this, report: e.report, resolver: o }
    : {
        project: this,
        report: e.report,
        resolver: o,
        fetchOptions: {
            project: this,
            cache: e.cache,
            checksums: this.storedCheckums,
            report: e.report,
            fetcher: i,
        },
    },
a = new Map(),
c = new Map(),
g = new Map(),
l = new Map(),

```javascript
u = new Map(),
h = new Map(),
p = [],
d = async (e) => {
    const t = await _._.prettifyAsyncErrors(
        async () => await o.resolve(e, s),
        (t) => `${O.prettyLocator(this.configuration, e)}: ${t}`,
    )
    if (!O.areLocatorsEqual(e, t))
        throw new Error(
            `Assertion failed: The locator cannot be changed by the resolver (went from ${O.prettyLocator(
                this.configuration, e, )} to ${O.prettyLocator(this.configuration, t)})`,
        )
    l.set(t.locatorHash, t)
    const r = this.configuration.normalizePackage(t)
    for (const [t, A] of r.dependencies) {
        const n = await this.configuration.reduceHook(
            (e) => e.reduceDependency,
            A,
            this,
            r,
            A,
            { resolver: o, resolveOptions: s },
        )
        if (!O.areIdentsEqual(A, n))
            throw new Error(
                `Assertion failed: The descriptor ident cannot be changed through aliases`,
            )
        const i = o.bindDescriptor(n, e, s)
        r.dependencies.set(t, i)
    }
    return (
        p.push(
            Promise.all([...r.dependencies.values()].map((e) => f(e))),
        ),
        c.set(r.locatorHash, r),
        r
    )
},
C = async (e) => {
    const t = this.resolutionAliases.get(e.descriptorHash)
    if (void 0 !== t)
        return (async (e, t) => {
            const r = await f(t)
            return (a.set(e.descriptorHash, e),
```

g.set(e.descriptorHash, r.locatorHash),
   r
 })
})
}()

const r = o.getResolutionDependencies(e, s),
   A = new Map(
     await Promise.all(
       r.map(async (e) => [e.descriptorHash, await f(e)]),
     ),
   ),
   n = (  
     await _.prettifyAsyncErrors(  
       async () => await o.getCandidates(e, A, s),
       (t) =>  
         `${O.prettyDescriptor(this.configuration, e)}: ${t}`,
       )
   )
)[0]

if (void 0 === n)
  throw new Error(
    O.prettyDescriptor(this.configuration, e) +
    `: No candidates found`,
  )

return (  
  a.set(e.descriptorHash, e),
  g.set(e.descriptorHash, n.locatorHash),
  (async (e) => {
    const t = u.get(e.locatorHash)
    if (void 0 !== t) return t
    const r = Promise.resolve().then(() => d(e))
    return u.set(e.locatorHash, r), r
   })
   )(n)
  ),
  f = (e) => {
    const t = h.get(e.descriptorHash)
    if (void 0 !== t) return t
    a.set(e.descriptorHash, e)
    const r = Promise.resolve().then(() => C(e))
    return h.set(e.descriptorHash, r), r
  }
}

for (const e of this.workspaces) {
  const t = e.anchoredDescriptor
  p.push(f(t))
}

for (; p.length > 0; ) {
  const e = [...p]
  ;(p.length = 0), await Promise.all(e)
}
const I = new Set(this.resolutionAliases.values()),
E = new Set(c.keys()),
B = new Set(),
y = new Map()
!(function ({
  project: e,
  allDescriptors: t,
  allResolutions: r,
  allPackages: o,
  accessibleLocators: i = new Set(),
  optionalBuilds: s = new Set(),
  volatileDescriptors: a = new Set(),
  peerRequirements: c = new Map(),
  report: g,
  tolerateMissingPackages: l = !1,
}) {
  var u
  const h = new Map()
  p = [],
  d = new Map(),
  C = new Map(),
  f = new Map(),
  I = new Map(),
  E = new Map(),
  B = new Map()
  e.workspaces.map((e) => {
    const t = e.anchoredLocator.locatorHash,
    r = o.get(t)
    if (void 0 === r) {
      if (l) return [t, null]
      throw new Error(
        'Assertion failed: The workspace should have an associated package',
      )
    )
    return [t, O.copyPackage(r)]
  }),
  y = () => {
    const e = A.xfs.mktempSync(),
    t = n.y1.join(e, 'stacktrace.log'),
    r = String(p.length + 1).length,
    o = p
    .map(
      (e, t) =>
        '
            '${(t + l + '').padStart(}
            r,
            ',
        )
    )
    O.stringifyLocator(e)
  })
}
throw (A.xfs.writeFileSync(t, o),
new H.lk(P.h.STACK_OVERFLOW_RESOLUTION,
  'Encountered a stack overflow when resolving peer dependencies; cf ' +
  t,
))
)
)
}

m = (e) => {
  const t = r.get(e.descriptorHash)
  if (void 0 === t)
    throw new Error(
      'Assertion failed: The resolution should have been registered',
    )
  const A = o.get(t)
  if (!A)
    throw new Error(
      'Assertion failed: The package could not be found',
    )
  return A
},

w = (e, t, { first: r, optional: A }) => {
  p.length > 1e3 && y(), p.push(e)
  const n = Q(e, t, { first: r, optional: A })
  return p.pop(), n
},

Q = (A, n, { first: c, optional: g }) => {
  if (i.has(A.locatorHash)) return
  i.add(A.locatorHash), g || s.delete(A.locatorHash)
  const u = o.get(A.locatorHash)
  if (!u) {
    if (!l) return
    throw new Error(
      `Assertion failed: The package (${O.prettyLocator(
        e.configuration,
        A,
      )}) should have been registered`,
    )
  }
  const p = [],
  m = [],
  Q = [],
  D = [],
  b = []
  for (const i of Array.from(u.dependencies.values())) {

if (u.peerDependencies.has(i.identHash) && !c) continue
if (O.isVirtualDescriptor(i))
    throw new Error('Assertion failed: Virtual packages shouldn't be encountered when virtualizing a branch',)
a.delete(i.descriptorHash)
let s = g
if (!s) {
    const e = u.dependenciesMeta.get(O.stringifyIdent(i))
    if (void 0 !== e) {
        const t = e.get(null)
        void 0 !== t && t.optional && (s = !0)
    }
}
const C = r.get(i.descriptorHash)
if (!C) {
    if (l) continue
    throw new Error(`Assertion failed: The resolution (${O.prettyDescriptor(e.configuration, i,)}) should have been registered`,)
}
const v = B.get(C) || o.get(C)
if (!v)
    throw new Error(`Assertion failed: The package (${C}, resolved from ${O.prettyDescriptor(e.configuration, i,)}) should have been registered`,)
if (0 === v.peerDependencies.size)
    w(v, new Map(), { first: !1, optional: s })
    continue
const S = h.get(v.locatorHash)
let k, N
'number' == typeof S && S >= 2 && y()
const F = new Set()
let K
m.push(() => {
    (k = O.virtualizeDescriptor(i, A.locatorHash)),
    (N = O.virtualizePackage(v, A.locatorHash)),
    u.dependencies.delete(i.identHash),
    u.dependencies.set(k.identHash, k),
    r.set(k.descriptorHash, N.locatorHash),
    t.set(k.descriptorHash, k),
o.set(N.locatorHash, N),
p.push([v, k, N])
}),
Q.push(i => {
  var e
  K = new Map()
  for (const o of N.peerDependencies.values()) {
    let i = u.dependencies.get(o.identHash)
    if (
      (!i &&
        !O.areIdentsEqual(A, o) &&
        ((i = O.convertLocatorToDescriptor(A)),
          t.set(i.descriptorHash, i),
          r.set(i.descriptorHash, A.locatorHash),
          a.delete(i.descriptorHash)).
      i || !N.dependencies.has(o.identHash))
    )
    n.set(i.identHash, i),
    'missing:' === i.range && F.add(i.identHash),
    K.set(
      o.identHash,
      null !== (e = n.get(o.identHash)) &&
      void 0 !== e ? e
    ,
      : N.locatorHash,
    )
    else N.peerDependencies.delete(o.identHash)
  }
  N.dependencies = new Map(
    _.sortMap(N.dependencies, ([e, t]) =>
      O.stringifyIdent(t),
    ),
  )
},
D.push() => {
  if (!o.has(N.locatorHash)) return
  const e = h.get(v.locatorHash),
  t = void 0 !== e ? e + 1 : 1
  h.set(v.locatorHash, t),
w(N, K, { first: !1, optional: s }),
h.set(v.locatorHash, t - 1)
},
b.push(() => {
  const e = u.dependencies.get(i.identHash)
  if (void 0 === e)
    throw new Error(
      'Assertion failed: Expected the peer dependency to have been turned into a dependency',
    )
  const t = r.get(e.descriptorHash)
  if (void 0 === t)
    throw new Error(
      'Assertion failed: Expected the descriptor to be registered',
    )
  if (
    _.getSetWithDefault(E, t).add(A.locatorHash),
    o.has(N.locatorHash)
  ) {
    for (const e of N.peerDependencies.values()) {
      const t = K.get(e.identHash)
      if (void 0 === t)
        throw new Error(
          'Assertion failed: Expected the peer dependency ident to be registered',
        )
      _.getArrayWithDefault(
        _.getMapWithDefault(I, t),
        O.stringifyIdent(e),
      ).push(N.locatorHash)
    }
    for (const e of F) N.dependencies.delete(e)
  }
})
for (const e of [...m, ...Q]) e()
let v
do {
  v = !0
for (const [A, n, s] of p) {
  if (!o.has(s.locatorHash)) continue
  const a = _.getMapWithDefault(C, A.locatorHash),
  c = V.makeHash(
    ...[...s.dependencies.values()].map((t) => {
      const A =
        'missing:' !== t.range
          ? r.get(t.descriptorHash)
          : 'missing:'
      if (void 0 === A)
        throw new Error(}
Assertion failed: Expected the resolution for ${O.prettyDescriptor(e.configuration, 1, )} to have been registered,

return A, n.identHash,

if (void 0 === g) {
a.set(c, n)
continue
}
if (g === n) continue
(v = !1),
o.delete(s.locatorHash),
t.delete(n.descriptorHash),
r.delete(n.descriptorHash),
i.delete(s.locatorHash)
const I = f.get(n.descriptorHash) || [],
h = [u.locatorHash, ...I]
f.delete(n.descriptorHash)
for (const e of h) {
const t = o.get(e)
void 0 !== t && t.dependencies.set(n.identHash, g)
}
}
while (!v)
for (const e of [...D, ...b]) e()
}
for (const t of e.workspaces)
a.delete(t.anchoredDescriptor.descriptorHash),
w(t.anchoredLocator, new Map(), { first: !0, optional: !1 })
let D
!(function (e) {
:e[(e.NotProvided = 0)] = 'NotProvided',
e[(e.NotCompatible = 1)] = 'NotCompatible'
})(D || (D = {}))
const b = []
for (const [e, t] of E) {
const r = o.get(e)
if (void 0 === r)
throw new Error(
'Assertion failed: Expected the root to be registered",
)
const A = I.get(e)
if (void 0 !== A)
for (const n of t) {
    const t = o.get(n)
    if (void 0 !== t) {
        for (const [i, s] of A) {
            const A = O.parseIdent(i)
            if (t.peerDependencies.has(A.identHash)) continue
            const a = p + V.makeHash(n, i, e).slice(0, 5)
            c.set(a, {
                subject: n,
                requested: A,
                rootRequester: e,
                allRequesters: s,
            })
        }
        const g = r.dependencies.get(A.identHash)
        if (void 0 !== g) {
            const e = m(g),
            n =
                null !== (u = e.version) && void 0 !== u
                ? u
                : '0.0.0',
            i = new Set()
            for (const e of s) {
                const t = o.get(e)
                if (void 0 === t)
                    throw new Error(
                        'Assertion failed: Expected the link to be registered',
                    )
                const r = t.peerDependencies.get(A.identHash)
                if (void 0 === r)
                    throw new Error(
                        'Assertion failed: Expected the ident to be registered',
                    )
                i.add(r.range)
            }
            ;[...i].every((e) =>
                $.satisfiesWithPrereleases(n, e),
            ) ||
            b.push(
                type: D.NotCompatible,
                subject: t,
                requested: A,
                requester: r,
                version: n,
                hash: a,
                requirementCount: s.length,
            )
        }
    }
} else {
    const e = r.peerDependenciesMeta.get(i)
const v = [
  (e) => O.prettyLocatorNoColors(e.subject),
  (e) => O.stringifyIdent(e.requested),
  (e) => '' + e.type,
]
for (const t of _.sortMap(b, v))
  switch (t.type) {
    case D.NotProvided:
      null == g ||
      g.reportWarning(  
        P.b.MISSING_PEER_DEPENDENCY,
        `${O.prettyLocator(  
          e.configuration,
          t.subject,
        )} doesn't provide ${O.prettyIdent(  
          e.configuration,
          t.requested,
        )} (${X.pretty(  
          e.configuration,
          t.hash,
          X.Type.CODE,
        )}), requested by ${O.prettyIdent(  
          e.configuration,
          t.requester,
        )}'`,
      )
      break
    case D.NotCompatible: {
      const r =
        t.requirementCount > 1
        ? 'and some of its descendants request'
        : 'requests'
      null == g ||
      g.reportWarning(  
        P.b.INCOMPATIBLE_PEER_DEPENDENCY,
        `${O.prettyLocator(  
          e.configuration,
          t.subject,
        )} doesn't provide ${O.prettyIdent(  
          e.configuration,
          t.requested,
        )}`,
      )
    }
    break
  }
e.configuration,
t.subject,
}) provides ${O.prettyIdent(
e.configuration,
t.requested,
}) (${X.pretty(
e.configuration,
t.hash,
X.Type.CODE,
}) with version ${O.prettyReference(
e.configuration,
t.version,
}), which doesn't satisfy what ${O.prettyIdent(
e.configuration,
t.requester,
}) ${r}`.
)
}

b.length > 0 &&
(null == g ||
g.reportWarning(
P.b.UNNAMED,
`Some peer dependencies are incorrectly met; run ${X.pretty(
e.configuration,
'yarn explain peer-requirements <hash>',
X.Type.CODE,
}) for details, where ${X.pretty(
e.configuration,
'<hash>',
X.Type.CODE,
}) is the six-letter p-prefixed code`,
))

)(
project: this,
report: e.report,
accessibleLocators: B,
volatileDescriptors: I,
optionalBuilds: E,
peerRequirements: y,
allDescriptors: a,
allResolutions: g,
allPackages: c,
})

for (const e of I) a.delete(e), g.delete(e)
:(this.storedResolutions = g),
:(this.storedDescriptors = a),
:(this.storedPackages = c),
async fetchEverything({ cache: e, report: t, fetcher: r }) {
    const A = r || this.configuration.makeFetcher(),
    n = {
        checksums: this.storedChecksums,
        project: this,
        cache: e,
        fetcher: A,
        report: t,
    },
    o = Array.from(
        new Set(
            _.sortMap(this.storedResolutions.values(), [
                (e) => { const t = this.storedPackages.get(e)
                    if (!t) throw new Error('Assertion failed: The locator should have been registered',
                )
                return O.stringifyLocator(t)
            ])
        )
    ),
    i = !1
    const s = H.yG.progressViaCounter(o.length)
    t.reportProgress(s)
    const a = v()(32)
    if (await t.startCacheReport(async () => {
        await Promise.all(
            o.map((e) => {
                a(async () => {
                    const r = this.storedPackages.get(e)
                    if (!r) throw new Error('Assertion failed: The locator should have been registered',
                )
                if (O.isVirtualLocator(r)) return
                let _
                try {
                    _ = await A.fetch(r, n)
                } catch (e) {
return {
  (e.message = `{O.prettyLocator(
    this.configuration,
    r,
  )}: `{e.message`},
  t.reportExceptionOnce(e),
  void (i = e)
)
}

o.checksum
? this.storedChecksums.set(r.locatorHash, o.checksum)
: this.storedChecksums.delete(r.locatorHash),
  o.releaseFs && o.releaseFs()
}).finally(() => {
  s.tick()
}),
),
}

i

throw i
}
async linkEverything(
  cache: e,
  report: t,
  fetcher: r,
  skipBuild: o,
) {
  var s
  const c = r || this.configuration.makeFetcher(),
  g = {
    checksums: this.storedChecksums,
    project: this,
    cache: e,
    fetcher: c,
    report: t,
    skipIntegrityCheck: `0,
  },
  l = this.configuration.getLinkers(),
  u = { project: this, report: t },
  h = new Map()
  l.map((e) => {
    const t = e.makeInstaller(u),
    r = t.getCustomDataKey(),
    A = this.installersCustomData.get(r)
    return void 0 !== A && t.attachCustomData(A, [e, t])
  });
p = new Map(),
d = new Map(),
C = new Map(),
f = new Map()

await Promise.all(
  [...this.accessibleLocators].map(async (e) => {
    const t = this.storedPackages.get(e)
    if (!t)
      throw new Error(
        'Assertion failed: The locator should have been registered',
      )
    return [e, await c.fetch(t, g)]
  })),
)

for (const e of this.accessibleLocators) {
  const t = this.storedPackages.get(e)
  if (void 0 === t)
    throw new Error(
      'Assertion failed: The locator should have been registered',
    )
  const r = f.get(t.locatorHash)
  if (void 0 === r)
    throw new Error(
      'Assertion failed: The fetch result should have been registered',
    )
  const A = this.tryWorkspaceByLocator(t)
  if (null !== A) {
    const e = [],
    { scripts: o } = A.manifest
    for (const t of ['preinstall', 'install', 'postinstall'])
      o.has(t) && e.push([L.k.SCRIPT, t])
    try {
      for (const e of h.values()) {
        if (null !== (await e.installPackage(t, r)).buildDirective)
          throw new Error(
            "Assertion failed: Linkers can't return build directives for workspaces; this responsibility befalls to the Yarn core",
          )
      } finally {
        r.releaseFs && r.releaseFs()
      }
    r.releaseFs && r.releaseFs()
  }
  const i = n.y1.join(r.packageFs.getRealPath(), r.prefixPath)
  d.set(t.locatorHash, i),
e.length > 0 &&
  C.set(t.locatorHash, { directives: e, buildLocations: [i] })}
} else {
    const e = l.find((e) => e.supportsPackage(t, u))
    if (!e)
        throw new H.lk(
            P.b.LINKER_NOT_FOUND,
            O.prettyLocator(this.configuration, t) +
            " isn’t supported by any available linker",
        )
    const A = h.get(e)
    if (!A)
        throw new Error(
            'Assertion failed: The installer should have been registered',
        )
    let n
    try {
        n = await A.installPackage(t, r)
    } finally {
        r.releaseFs && r.releaseFs()
    }
    p.set(t.locatorHash, e),
    d.set(t.locatorHash, n.packageLocation),
    n.buildDirective &&
    n.packageLocation &&
    C.set(t.locatorHash, {
        directives: n.buildDirective,
        buildLocations: [n.packageLocation],
    })
}
}
const I = new Map()
for (const e of this.accessibleLocators) {
    const t = this.storedPackages.get(e)
    if (!t)
        throw new Error(
            'Assertion failed: The locator should have been registered',
        )
    const r = null !== this.tryWorkspaceByLocator(t),
    A = async (e, A) => {
        const n = d.get(t.locatorHash)
        if (void 0 === n)
            throw new Error(
                `Assertion failed: The package (${O.prettyLocator(
                    this.configuration,
                    t,
                })} should have been registered`,
            )
        const o = []
        for (const A of t.dependencies.values()) {
            o.push(A)
        }
        return o
    }
}
const i = this.storedResolutions.get(A.descriptorHash)
if (void 0 === i)
    throw new Error(
        'Assertion failed: The resolution (${O.prettyDescriptor(
            this.configuration,
            A,
        )}, from ${O.prettyLocator(
            this.configuration,
            t,
        )}) should have been registered',
    )
const s = this.storedPackages.get(i)
if (void 0 === s)
    throw new Error(
        'Assertion failed: The package (${i}, resolved from ${O.prettyDescriptor(
            this.configuration,
            A,
        )}) should have been registered',
    )
const a =
    null === this.tryWorkspaceByLocator(s) ? p.get(i) : null
if (void 0 === a)
    throw new Error(
        'Assertion failed: The package (${i}, resolved from ${O.prettyDescriptor(
            this.configuration,
            A,
        )}) should have been registered',
    )
const c = null === a
    if (a === e || r || c)
        null !== d.get(s.locatorHash) && o.push([A, s])
    else if (null !== n) {
        _.getArrayWithDefault(I, i).push(n)
    }
    null !== n && (await A.attachInternalDependencies(t, o))
}
if (r) for (const [e, t] of h) await A(e, t)
else {
    const e = p.get(t.locatorHash)
    if (!e)
        throw new Error(
            'Assertion failed: The linker should have been found',
        )
    const r = h.get(e)
    if (!r)
        throw new Error(
            'Assertion failed: The installer should have been registered',
        )
for (const [e, t] of I) {
  const r = this.storedPackages.get(e)
  if (!r)
    throw new Error('Assertion failed: The package should have been registered',
  )
  const A = p.get(r.locatorHash)
  if (!A)
    throw new Error('Assertion failed: The linker should have been found',
  )
  const n = h.get(A)
  if (!n)
    throw new Error('Assertion failed: The installer should have been registered',
  )
  await n.attachExternalDependents(r, t)
}
const E = new Map()
for (const e of h.values()) {
  const t = await e.finalizeInstall()
  for (const e of null !== (s = null == t ? void 0 : t.records) &&
    void 0 !== s
      ? s
        : [])
    C.set(e.locatorHash, {
      directives: e.buildDirective,
      buildLocations: e.buildLocations,
    })
  void 0 !== (null == t ? void 0 : t.customData) &&
  E.set(e.getCustomDataKey(), t.customData)
}
if (
  !this.installersCustomData = E,
  await this.persistInstallStateFile(),
  o)
)}
return
const B = new Set(this.storedPackages.keys()),
  y = new Set(C.keys())
for (const e of y) B.delete(e)
const m = (0, a.createHash)('sha512')
m.update(process.versions.node),
  this.configuration.triggerHook(}
let w = m.digest('hex'),
Q = new Map(),
D = (e) => {
let t = Q.get(e.locatorHash)
if (void 0 !== t) return t
const r = this.storedPackages.get(e.locatorHash)
if (void 0 === r)
throw new Error('Assertion failed: The package should have been registered',
)
const A = (0, a.createHash)('sha512')
A.update(e.locatorHash), Q.set(e.locatorHash, '<recursive>')
for (const e of r.dependencies.values()) {
const t = this.storedResolutions.get(e.descriptorHash)
if (void 0 === t)
throw new Error('Assertion failed: The resolution (${O.prettyDescriptor( this.configuration,
e,  )}) should have been registered',
)
const r = this.storedPackages.get(t)
if (void 0 === r)
throw new Error('Assertion failed: The package should have been registered',
)
A.update(D(r))
}
return (t = A.digest('hex')), Q.set(e.locatorHash, t, t ),
},
b = (e, t) => {
const r = (0, a.createHash)('sha512')
r.update(w), r.update(D(e))
for (const e of t) r.update(e)
return r.digest('hex')
},
v = this.configuration.get('bstatePath'),
S = A.xfs.existsSync(v)
? (0, i.parseSyml)(await A.xfs.readFilePromise(v, 'utf8')) :
{},
k = new Map()
for (; y.size > 0; ) {

const e = y.size,
    r = []
for (const e of y) {
    const o = this.storedPackages.get(e)
    if (!o)
        throw new Error(
            'Assertion failed: The package should have been registered',
        )
    let i = !0
    for (const e of o.dependencies.values()) {
        const t = this.storedResolutions.get(e.descriptorHash)
        if (!t)
            throw new Error(
                `Assertion failed: The resolution (${O.prettyDescriptor(
                    this.configuration,
                    e,
                )}) should have been registered`,
            )
        if (y.has(t)) {
            i = !1
            break
        }
    }
    if (!i) continue
    y.delete(e)
    const s = C.get(o.locatorHash)
    if (!s)
        throw new Error(
            'Assertion failed: The build directive should have been registered',
        )
    const a = b(o, s.buildLocations)
    if (Object.prototype.hasOwnProperty.call(S, o.locatorHash) &&
        S[o.locatorHash] === a)
        k.set(o.locatorHash, a)
    else {
        Object.prototype.hasOwnProperty.call(S, o.locatorHash)
            ? t.reportInfo(
                P.b.MUST_REBUILD,
                O.prettyLocator(this.configuration, o) +
                ' must be rebuilt because its dependency tree changed',
            )
            : t.reportInfo(
                P.b.MUST_BUILD,
                O.prettyLocator(this.configuration, o) +
                ' must be built because it never did before or the last one failed',
            )
for (const e of s.buildLocations) {
    if (!n.y1.isAbsolute(e))
        throw new Error(
            'Assertion failed: Expected the build location to be absolute (not ${e})',
        )
    r.push(
        (async () => {
            for (const [r, i] of s.directives) {
                let s = `# This file contains the result of Yarn building a package (${O.stringifyLocator(
                    o,
                    )})
            `
                switch (r) {
                    case L.k.SCRIPT:
                        s += `# Script name: ${i}
                ` break
                    case L.k.SHELLCODE:
                        s += `# Script code: ${i}
                `
                }
                const c = null
                await A.xfs.mktempPromise(async (g) => {
                    const l = n.y1.join(g, 'build.log'),
                        { stdout: u, stderr: h, } = this.configuration.getSubprocessStreams(l, {
                        header: s, prefix: O.prettyLocator(this.configuration, o), report: t,
                    })
                    let p
                    try {
                        switch (r) {
                            case L.k.SCRIPT:
                                p = await Z.executePackageScript(o, i, [], {
                                    cwd: e, project: this,
                                    stdin: c, stdout: u, stderr: h,
                                })
                                break
                            case L.k.SHELLCODE:
                                p = await Z.executePackageShellcode(
                                    o, i, [], {
                                    cwd: e,
                                })
                            break
                        }
                    } catch (e) {
                        console.error(e)
                    }
                })
            }
        })
    )
}
project: this,
stdin: c,
stdout: u,
stderr: h,

)

)
}
catch (e) {
  h.write(e.stack), (p = 1)
}
if ((u.end(), h.end(), 0 === p))
  return k.set(o.locatorHash, a), !0
A.xfs.detachTemp(g)
const d = `${O.prettyLocator(
  this.configuration,
  o,
)}
couldn't be built successfully (exit code ${X.pretty(
  this.configuration,
  p,
  X.Type.NUMBER,
)}, logs can be found here: ${X.pretty(
  this.configuration,
  l,
  X.Type.PATH,
)});
)
return (t.reportInfo(P.b.BUILD_FAILED, d),
  this.optionalBuilds.has(o.locatorHash)
? (k.set(o.locatorHash, a), !0)
: (t.reportError(P.b.BUILD_FAILED, d), !1)
)
)
}
})()

)

if ((await Promise.all(r), e === y.size)) {
  const e = Array.from(y)
    .map((e) => {
      const t = this.storedPackages.get(e)
      if (!t)
        throw new Error(
          'Assertion failed: The package should have been registered',
        )
      return O.prettyLocator(this.configuration, t)
    })

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P.b.FROZEN_LOCKFILE_EXCEPTION,
'The lockfile would have been created by this install, which is explicitly forbidden.';
)
: e
}

await e.report.startTimerPromise('Resolution step', async () => {
  await this.resolveEverything(e)
}),

await e.report.startTimerPromise(
  'Post-resolution validation',
  { skipIfEmpty: !0 },
  async () => {
    for (const [, t] of this.configuration.packageExtensions)
      for (const [, r] of t)
        for (const t of r)
          if (t.userProvided) {
            const r = X.pretty(
              this.configuration,
              t,
              X.Type.PACKAGE_EXTENSION,
            )
            switch (t.status) {
              case ee._u.Inactive:
                e.report.reportWarning(
                  P.b.UNUSED_PACKAGE_EXTENSION,
                  r +
                  ': No matching package in the dependency tree; you may not need this rule anymore.',
                )
                break
              case ee._u.Redundant:
                e.report.reportWarning(
                  P.b.REDUNDANT_PACKAGE_EXTENSION,
                  r +
                  ': This rule seems redundant when applied on the original package; the extension may have been applied upstream.',
                )
              }
            }
            if (null !== a) {
              const t = (0, o.qH)(a, this.generateLockfile())
              if (t !== a) {
                const r = w(s, s, a, t)
                e.report.reportSeparator()
                for (const t of r.hunks) {
                  e.report.reportInfo(null,
                    `@@ -${t.oldStart},${t.oldLines} +${t.newStart},${t.newLines} @@`,
                  )
                }
              }
            }
          }
        }
      }
    }
  }
)
for (const r of t.lines)
  r.startsWith('+')
    ? e.report.reportError(
        P.b.FROZEN_LOCKFILE_EXCEPTION,
        X.pretty(this.configuration, r, X.Type.ADDED),
      )
      : r.startsWith('-')
    ? e.report.reportError(
        P.b.FROZEN_LOCKFILE_EXCEPTION,
        X.pretty(this.configuration, r, X.Type.REMOVED),
      )
    : e.report.reportInfo(
        null,
        X.pretty(this.configuration, r, 'grey'),
      )

  throw (e.report.reportSeparator(),
    new H.lk(
      P.b.FROZEN_LOCKFILE_EXCEPTION,
      'The lockfile would have been modified by this install, which is explicitly forbidden.',
    ))
)
)
)
)
)
)
)
)
)
)
)
for (const e of this.configuration.packageExtensions.values())
  for (const [, t] of e)
    for (const e of t)
      e.userProvided &&
        e.status === ee._u.Active &&
        (null === (r = x.VK.telemetry) ||
          void 0 === r ||
          r.reportPackageExtension(
            X.json(e, X.Type.PACKAGE_EXTENSION),
          ))
      await e.report.startTimerPromise('Fetch step', async () => {
        await this.fetchEverything(e),
        (void 0 === e.persistProject || e.persistProject) &&
        (await this.cacheCleanup(e))
      }),
      (void 0 === e.persistProject || e.persistProject) &&
        (await this.persist()),
      await e.report.startTimerPromise('Link step', async () => {
        const t = e.immutable
          ? [...new Set(this.configuration.get('immutablePatterns')),
            r.reportPackageExtension(}
await this.linkEverything(e)
const A = await Promise.all(
  t.map(async (e) => V.checksumPattern(e, { cwd: this.cwd })),
)
for (let n = 0; n < t.length; ++n)
r[n] !== A[n] &&
e.report.reportError(
  P.b.FROZEN_ARTIFACT_EXCEPTION,
  `The checksum for ${t[n]} has been modified by this install, which is explicitly forbidden.`,
)
},
await this.persistInstallStateFile(),
await this.configuration.triggerHook(
  (e) => e.afterAllInstalled, this,
e,
)
}
generateLockfile() {
  const e = new Map()
  for (const [t, r] of this.storedResolutions.entries()) {
    let A = e.get(r)
    A || e.set(r, (A = new Set())), A.add(t)
  }
  const t = { __metadata: { version: 4 } }
  for (const [r, A] of e.entries()) {
    const e = this.originalPackages.get(r)
    if (!e) continue
    const n = []
    for (const e of A) {
      const t = this.storedDescriptors.get(e)
      if (!t) throw new Error(
        'Assertion failed: The descriptor should have been registered',
      )
      n.push(t)
    }
    const o = n
    .map((e) => O.stringifyDescriptor(e))
    .sort()
    .join(', ')
    i = new Y.G()
    let s
const a = this.storedChecksums.get(e.locatorHash)
if (void 0 !== a) {
  const e = a.indexOf('/
  if (-1 === e)
    throw new Error('Assertion failed: Expecte the checksum to reference its cache key',
  )
  const r = a.slice(0, e),
  A = a.slice(e + 1)
  void 0 === t.__metadata.cacheKey && (t.__metadata.cacheKey = r),
  (s = r === t.__metadata.cacheKey ? A : a)
}
  t[o] = {
    ...i.exportTo([], { compatibilityMode: !1 }),
    linkType: e.linkType.toLowerCase(),
    resolution: O.stringifyLocator(e),
    checksum: s,
  }
return (
  [
    '# This file is generated by running "yarn install" inside your project.
    '# Manual changes might be lost - proceed with caution!
  ].join('') +
  '
' +
  (0, i.stringifySyml)(t)
  )
}
async persistLockfile() {
  const e = n.y1.join(
    this.cwd,
    this.configuration.get('lockfileFilename'),
  ),
  t = this.generateLockfile()
  await A.xfs.changeFilePromise(e, t, { automaticNewlines: !0 })
}
async persistInstallStateFile() {
  const e = []
  for (const t of Object.values(oe)) e.push(...t)
  t = D()(this, e),

  ;(i.version =
e.linkType === ee.Un.HARD ? e.version : '0.0.0-use.local'),
  (i.languageName = e.languageName),
  (i.dependencies = new Map(e.dependencies)),
  (i.peerDependencies = new Map(e.peerDependencies)),
  (i.dependenciesMeta = new Map(e.dependenciesMeta)),
  (i.peerDependenciesMeta = new Map(e.peerDependenciesMeta)),
  (i.bin = new Map(e.bin))
  const a = this.storedChecksums.get(e.locatorHash)
  if (void 0 !== a) {
    const e = a.indexOf('/')
    if (-1 === e)
      throw new Error('Assertion failed: Expecte the checksum to reference its cache key',
    )
    const r = a.slice(0, e),
    A = a.slice(e + 1)
    void 0 === t.__metadata.cacheKey && (t.__metadata.cacheKey = r),
    (s = r === t.__metadata.cacheKey ? A : a)
  }
  t[o] = {
    ...i.exportTo([], { compatibilityMode: !1 }),
    linkType: e.linkType.toLowerCase(),
    resolution: O.stringifyLocator(e),
    checksum: s,
  }
  return (
    [
      '# This file is generated by running "yarn install" inside your project.
      '# Manual changes might be lost - proceed with caution!
    ].join('') +
    '
' +
    (0, i.stringifySyml)(t)
  )
}
async persistLockfile() {
  const e = n.y1.join(
    this.cwd,
    this.configuration.get('lockfileFilename'),
  ),
  t = this.generateLockfile()
  await A.xfs.changeFilePromise(e, t, { automaticNewlines: !0 })
}
async persistInstallStateFile() {
  const e = []
  for (const t of Object.values(oe)) e.push(...t)
  t = D()(this, e),

  ;(i.version =
e.linkType === ee.Un.HARD ? e.version : '0.0.0-use.local'),
  (i.languageName = e.languageName),
  (i.dependencies = new Map(e.dependencies)),
  (i.peerDependencies = new Map(e.peerDependencies)),
  (i.dependenciesMeta = new Map(e.dependenciesMeta)),
  (i.peerDependenciesMeta = new Map(e.peerDependenciesMeta)),
  (i.bin = new Map(e.bin))
  const a = this.storedChecksums.get(e.locatorHash)
  if (void 0 !== a) {
    const e = a.indexOf('/')
    if (-1 === e)
      throw new Error('Assertion failed: Expecte the checksum to reference its cache key',
    )
    const r = a.slice(0, e),
    A = a.slice(e + 1)
    void 0 === t.__metadata.cacheKey && (t.__metadata.cacheKey = r),
    (s = r === t.__metadata.cacheKey ? A : a)
  }
  t[o] = {
    ...i.exportTo([], { compatibilityMode: !1 }),
    linkType: e.linkType.toLowerCase(),
    resolution: O.stringifyLocator(e),
    checksum: s,
  }
  return (
    [
      '# This file is generated by running "yarn install" inside your project.
      '# Manual changes might be lost - proceed with caution!
    ].join('') +
    '
' +
    (0, i.stringifySyml)(t)
  )
}
r = await Ae(K().serialize(t)),
o = this.configuration.get('installStatePath')
await A.xfs.mkdirPromise(n.y1.dirname(o), { recursive: !0 }),
    await A.xfs.changeFilePromise(o, r)
}
async restoreInstallState({
    restoreInstallersCustomData: e = !0,
    restoreResolutions: t = !0,
} = {}) {
    const r = this.configuration.get('installStatePath')
    if (!A.xfs.existsSync(r))
        return void (t && (await this.applyLightResolution()));
    const n = await A.xfs.readFilePromise(r),
    o = K().deserialize(await ne(n)),
    e &&
        void 0 !== o.installersCustomData &&
        (this.installersCustomData = o.installersCustomData),
    t &&
        (o.lockFileChecksum === this.lockFileChecksum
            ? (Object.assign(this, D()(o, oe.restoreResolutions)),
                this.refreshWorkspaceDependencies())
            : await this.applyLightResolution());
}
async applyLightResolution() {
    await this.resolveEverything({
        lockfileOnly: !0,
        report: new q.$(),
    }),
    await this.persistInstallStateFile()
}
async persist() {
    await this.persistLockfile()
    for (const e of this.workspacesByCwd.values())
        await e.persistManifest()
}
async cacheCleanup({ cache: e, report: t }) {
    const r = new Set(['.gitignore'])
    if (A.xfs.existsSync(e.cwd) &&
        (0, W.isFolderInside)(e.cwd, this.cwd)) {
        for (const o of await A.xfs.readdirPromise(e.cwd)) {
            if (r.has(o)) continue
            const i = n.y1.resolve(e.cwd, o)
            e.markedFiles.has(i) ||
                e.immutable
                ? t.reportError(P.b.IMMUTABLE_CACHE,

                break;
```
X.pretty(
  this.configuration,
  n.y1.basename(i),
  'magenta',
) +
  ' appears to be unused and would marked for deletion, but the cache is immutable',
)

: (t.reportInfo(
  P.b.UNUSED_CACHE_ENTRY,
  X.pretty(
    this.configuration,
    n.y1.basename(i),
    'magenta',
  ) + ' appears to be unused - removing',
),
  await A.xfs.removePromise(i))
}
e.markedFiles.clear()
)

52779: (e, t, r) => {
  'use strict'
  r.d(t, { c: () => s, O: () => a })
  var A = r(53887),
      n = r.n(A),
      o = r(36545),
      i = r(54143)
  const s = /^(?!v)[a-z0-9-]+$/i
  class a {
    supportsDescriptor(e, t) {
      return !!o.validRange(e.range) || !!s.test(e.range)
    }
    supportsLocator(e, t) {
      return !!n().valid(e.reference) || !!s.test(e.reference)
    }
    shouldPersistResolution(e, t) {
      return t.resolver.shouldPersistResolution(
        this.forwardLocator(e, t),
        t,
      )
    }
    bindDescriptor(e, t, r) {
      return r.resolver.bindDescriptor(this.forwardDescriptor(e, r), t, r)
    }
    getResolutionDependencies(e, t) {
      return t.resolver.getResolutionDependencies(}
this.forwardDescriptor(e, t),

  t,
)
}

async getCandidates(e, t, r) {
  return await r.resolver.getCandidates(
    this.forwardDescriptor(e, r),
    t,
    r,
  )
}

async getSatisfying(e, t, r) {
  return await r.resolver.getSatisfying(
    this.forwardDescriptor(e, r),
    t,
    r,
  )
}

async resolve(e, t) {
  const r = await t.resolver.resolve(this.forwardLocator(e, t), t)
  return i.renamePackage(r, e)
}

forwardDescriptor(e, t) {
  return i.makeDescriptor(
    e,
    `${t.project.configuration.get('defaultProtocol')}${e.range}`,
  )
}

forwardLocator(e, t) {
  return i.makeLocator(
    e,
    `${t.project.configuration.get('defaultProtocol')}${e.reference}`,
  )
}

}]);

35691: (e, t, r) => {
'use strict'
  r.d(t, { lk: () => i, yG: () => s })
  var A = r(92413),
  n = r(24304),
  o = r(92659)
  class i extends Error {
    constructor(e, t, r) {
      super(t), (this.reportExtra = r), (this.reportCode = e)
    }
  }
  class s {
constructor() {
    (this.reportedInfos = new Set()),
    (this.reportedWarnings = new Set()),
    (this.reportedErrors = new Set())
}

static progressViaCounter(e) {
    let t,
        r = 0,
        A = new Promise((e) => {
            t = e
        })),
        n = (e) => {
            const n = t
            :(A = new Promise((e) => {
                t = e
            })),
            (r = e),
            n()
        },
        o = (async function* () {
            const n = t
            for (; r < e; ) await A, yield { progress: r / e }
        })()
    return {
        [Symbol.asyncIterator]: () => o,
        set: n,
        tick: (e = 0) => {
            n(r + 1)
        }
    }
}

reportInfoOnce(e, t, r) {
    const A = r && r.key ? r.key : t
    this.reportedInfos.has(A) ||
        (this.reportedInfos.add(A), this.reportInfo(e, t))
}

reportWarningOnce(e, t, r) {
    const A = r && r.key ? r.key : t
    this.reportedWarnings.has(A) ||
        (this.reportedWarnings.add(A), this.reportWarning(e, t))
}

reportErrorOnce(e, t, r) {
    var A
    const n = r && r.key ? r.key : t
    this.reportedErrors.has(n) ||
        (this.reportedErrors.add(n),
        this.reportError(e, t),
        null === (A = null == r ? void 0 : r.reportExtra) ||
        void 0 === A ||
A.call(r, this))
}
reportExceptionOnce(e) {
!(function (e) {
    return void 0 !== e.reportCode
})(e)
? this.reportErrorOnce(o.b.EXCEPTION, e.stack || e.message, {
    key: e,
}) : this.reportErrorOnce(e.reportCode, e.message, {
    key: e,
    reportExtra: e.reportExtra,
})
}
createStreamReporter(e = null) {
    const t = new A.PassThrough(),
    r = new n.StringDecoder()
    let o = "
    return (t.on('data', (t) => {
        let A,
        n = r.write(t)
        do {
            if (((A = n.indexOf('
')), -1 !== A)) {
                const t = o + n.substr(0, A)
                ;(n = n.substr(A + 1)),
                (o = "),
                null !== e
                ? this.reportInfo(null, `${e} ${t}`)
                : this.reportInfo(null, t)
            } while (-1 !== A)
            o += n
        }),
        t.on('end', () => {
            const t = r.end()
            '' !== t &&
            (null !== e
            ? this.reportInfo(null, `$[e] $[t]`) : this.reportInfo(null, t))
        }),
        t
    ),
    15815: (e, t, r) => {
        'use strict'
    },
var A = r(29148),
n = r.n(A),
o = r(92659),
i = r(35691),
s = r(71643)
const a = ["","","","","","","",""]
c = new Set([o.b.FETCH_NOT_CACHED, o.b.UNUSED_CACHE_ENTRY]),
g = process.env.GITHUB_ACTIONS
? {
  start: (e) => `::group::${e}\n`,
  end: (e) => `::endgroup::\n`}
: process.env.TRAVIS
? {
  start: (e) => `travis_fold:start:${e}\n`,
  end: (e) => `travis_fold:end:${e}\n`}
: process.env.GITLAB_CI
? {
  start: (e) =>
    `section_start:${Math.floor(Date.now() / 1e3, 0)}.toLowerCase().replace(/\W+/g, '_')\r${e}\n`,
  end: (e) =>
    `section_end:${Math.floor(Date.now() / 1e3, 0)}.toLowerCase().replace(/\W+/g, '_')\r`}
: null,
l = new Date(),
u =
[iTerm.app, 'Apple_Terminal'].includes(process.env.TERM_PROGRAM, 0) || !process.env.WT_SESSION,
h = {
  patrick: { date: [17, 3], chars: ["", ""], size: 40 },
  simba: { date: [19, 7], chars: ["", ""], size: 40 },
  jack: { date: [31, 10], chars: ["", ""], size: 40 },
  hogsfather: { date: [31, 12], chars: ["", ""], size: 40 },
  default: { chars: ["=", '""], size: 80 },
},
p =
(u &&
Object.keys(h).find((e) => {
  const t = h[e]
  return (!t.date ||
    (t.date[0] === l.getDate() && t.date[1] === l.getMonth() + 1))
})) ||
function d(e, { configuration: t, json: r }) {
    const A = null === e ? 0 : e,
    n = (0, o.i)(A)
    return r || null !== e ? n : spretty(t, n, 'grey')
}

function C(e, { configuration: t, json: r }) {
    const A = d(e, { configuration: t, json: r })
    if (!t.get('enableHyperlinks')) return A
    if (null === e || e === o.b.UNNAMED) return A
    return `\[8;;${`https://yarnpkg.com/advanced/error-codes#${A}---${o.b[e]}```}.toLowerCase()${A}\[8;;`}
}

class f extends i.yG {
    constructor({
        configuration: e,
        stdout: t,
        json: r = !1,
        includeFooter: A = !0,
        includeLogs: n = !1,
        includeInfos: o = n,
        includeWarnings: i = n,
        forgettableBufferSize: a = 5,
        forgettableNames: g = new Set(),
    }) {
        super(),
        (this.uncommitted = new Set()),
        (this.cacheHitCount = 0),
        (this.cacheMissCount = 0),
        (this.warningCount = 0),
        (this.errorCount = 0),
        (this.startTime = Date.now()),
        (this.indent = 0),
        (this.progress = new Map()),
        (this.progressTime = 0),
        (this.progressFrame = 0),
        (this.progressTimeout = null),
        (this.forgettableLines = []),
        s.addLogFilterSupport(this, { configuration: e })),
        (this.configuration = e),
        (this.forgettableBufferSize = a),
        (this.forgettableNames = new Set([...g, ...c])),
        (this.includeFooter = A),
        (this.includeInfos = o),
        (this.includeWarnings = i),
        (this.json = r),
        (this.stdout = t)
        const l = this.configuration.get('progressBarStyle') || p
        if (!Object.prototype.hasOwnProperty.call(h, l))
throw new Error('Assertion failed: Invalid progress bar style')
this.progressStyle = h[I]
const u = 'YN0000:'.length,
d = Math.max(0, Math.min(process.stdout.columns - u, 80))
this.progressMaxScaledSize = Math.floor((this.progressStyle.size * d) / 80,
)
}
}
static async start(e, t) {
const r = new this(e),
A = process.emitWarning
process.emitWarning = (e, t) => {
if ('string' != typeof e) {
const r = e
:e = r.message, (t = null != t ? t : r.name)
}
const A = void 0 !== t ? `$${t}: ${e}` : e
r.reportWarning(o.b.UNNAMED, A)
}
try {
await t(r)
} catch (e) {
 r.reportExceptionOnce(e)
} finally {
 await r.finalize(), (process.emitWarning = A)
}
return r
}
hasErrors() {
return this.errorCount > 0
}
exitCode() {
 return this.hasErrors() ? 1 : 0
}
reportCacheHit(e) {
this.cacheHitCount += 1
}
reportCacheMiss(e, t) {
:((this.cacheMissCount += 1),
0 === t ||
this.configuration.get('preferAggregateCacheInfo') ||
this.reportInfo(o.b.FETCH_NOT_CACHED, t)
}
startTimerSync(e, t, r) {
const A = 'function' == typeof t ? t : r,
n = {
 committed: '1',
 action: () => {

async startTimerPromise(e, t, r) {
  const A = 'function' == typeof t ? t : r,
  n = {
    committed: !1,
    action: () => {
      this.reportInfo(null, ' ' + e),
      (this.indent += 1),
      null !== g && this.stdout.write(g.start(e)),
    },
  };
  ('function' == typeof t ? {} : t).skipIfEmpty
  ? this.uncommitted.add(n)
  : (n.action(), (n.committed = !0))
  const o = Date.now()
  try {
    return A()
  } catch (e) {
    throw (this.reportExceptionOnce(e), e)
  } finally {
    const t = Date.now()
    this.uncommitted.delete(n),
    n.committed &&
    ((this.indent -= 1),
    null !== g && this.stdout.write(g.end(e)),
    this.configuration.get('enableTimers') && t - o > 200
    ? this.reportInfo(null, ' Completed in ' +
      s.pretty(this.configuration, t - o, s.Type.DURATION),
    )
    : this.reportInfo(null, ' Completed'))
  }
}

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this.uncommitted.delete(n),
   n.committed &&
   ((this.indent -= 1),
    null !== g && this.stdout.write(g.end(e)),
    this.configuration.get('enableTimers') && t - o > 200
    ? this.reportInfo(
      null,
      ' Completed in ' +
      s.pretty(this.configuration, t - o, s.Type.DURATION),
    )
    : this.reportInfo(null, ' Completed'))
}
}
async startCacheReport(e) {
  const t = this.configuration.get('preferAggregateCacheInfo')
    ? {
        cacheHitCount: this.cacheHitCount,
        cacheMissCount: this.cacheMissCount,
      }
    : null
  try {
    return await e()
  } catch (e) {
    throw (this.reportExceptionOnce(e), e)
  } finally {
    null !== t && this.reportCacheChanges(t)
  }
}
reportSeparator() {
  0 === this.indent
  ? this.writeLineWithForgettableReset('')
  : this.reportInfo(null, '')
}
reportInfo(e, t) {
  if (!this.includeInfos) return
  this.commit()
  const r = `${s.pretty(
    this.configuration,
    ''.
    'blueBright',
  )} ${this.formatNameWithHyperlink(e)}: ${this.formatIndent()}${t}
  if (this.json)
    this.reportJson({
      type: 'info',
      name: e,
      displayName: this.formatName(e),
      indent: this.formatIndent(),
      data: t,
```javascript
else if (this.forgettableNames.has(e))
    if (this.forgettableLines.push(r),
       this.forgettableLines.length > this.forgettableBufferSize)
        ) {
            for (;
                 this.forgettableLines.length > this.forgettableBufferSize;
                     )
                this.forgettableLines.shift()
            this.writeLines(this.forgettableLines, { truncate: !0 });
        } else this.writeLine(r, { truncate: !0 })
    else this.writeLineWithForgettableReset(r)
}
reportWarning(e, t) {
    ;(this.warningCount += 1),
    this.includeWarnings &&
    (this.commit(),
     this.json
        ? this.reportJson(
            type: 'warning',
            name: e,
            displayName: this.formatName(e),
            indent: this.formatIndent(),
            data: t,
            )
        : this.writeLineWithForgettableReset(
            `${s.pretty(  
                this.configuration,  
                ,  
                'yellowBright',  
                )} ${this.formatNameWithHyperlink(  
                e,  
                )}: ${this.formatIndent()}${t}`,  
            ))
}
reportError(e, t) {
    ;(this.errorCount += 1),
    this.commit(),
    this.json
        ? this.reportJson(
            type: 'error',
            name: e,
            displayName: this.formatName(e),
            indent: this.formatIndent(),
            data: t,
            )
        : this.writeLineWithForgettableReset(
            `${s.pretty(  
                this.configuration,  
                ,  
                'yellowBright',  
                )} ${this.formatNameWithHyperlink(  
                e,  
                )}: ${this.formatIndent()}${t}`,  
            ))
}
```
reportProgress(e) {
  let t = !1
  const r = Promise.resolve().then(async () => {
    const r = { progress: 0, title: void 0 }
    this.progress.set(e, { definition: r, lastScaledSize: -1 }),
    this.refreshProgress(-1)
    for await (const { progress: A, title: n } of e)
      t ||
        (r.progress === A && r.title === n) ||
        ((r.progress = A), (r.title = n), this.refreshProgress())
    A()
  }),
  A = () => {
    t ||
    ((t = !0), this.progress.delete(e), this.refreshProgress(1))
  }
  return { ...r, stop: A }
}
reportJson(e) {
  this.json &&
  this.writeLineWithForgettableReset('' + JSON.stringify(e))
}
async finalize() {
  if (!this.includeFooter) return
  let e = ''
  e =
  this.errorCount > 0
  ? 'Failed with errors'
  : this.warningCount > 0
  ? 'Done with warnings'
  : 'Done'
  const t = s.pretty(  
    this.configuration,
    Date.now() - this.startTime,
    s.Type.DURATION,
  );
r = this.configuration.get('enableTimers') ? `${e} in ${t}` : e
this.errorCount > 0
? this.reportError(o.b.UNNAMED, r)
: this.warningCount > 0
? this.reportWarning(o.b.UNNAMED, r)
: this.reportInfo(o.b.UNNAMED, r)
}
writeLine(e, { truncate: t } = {}) {
  this.clearProgress({ clear: !0 }),
  this.stdout.write(this.truncate(e, { truncate: t }) + "\n"),
  this.writeProgress()
}
writeLineWithForgettableReset(e, { truncate: t } = {}) {
  (this.forgettableLines = []), this.writeLine(e, { truncate: t })
}
writeLines(e, { truncate: t } = {}) {
  this.clearProgress({ delta: e.length })
  for (const r of e)
    this.stdout.write(this.truncate(r, { truncate: t }) + "\n")
  this.writeProgress()
}
reportCacheChanges({ cacheHitCount: e, cacheMissCount: t }) {
  const r = this.cacheHitCount - e,
  A = this.cacheMissCount - t
  if (0 === r && 0 === A) return
  let n = "
  this.cacheHitCount > 1
  ? (n += this.cacheHitCount + ' packages were already cached')
  : 1 === this.cacheHitCount
  ? (n += ' - one package was already cached')
  : (n += 'No packages were cached'),
  this.cacheHitCount > 0
  ? this.cacheMissCount > 1
  ? (n += ', ${this.cacheMissCount} had to be fetched')
  : 1 === this.cacheMissCount &&
    (n += ', one had to be fetched')
  : this.cacheMissCount > 1
  ? (n += ' - ${this.cacheMissCount} packages had to be fetched')
  : 1 === this.cacheMissCount &&
    (n += ' - one package had to be fetched'),
  this.reportInfo(o.b.FETCH_NOT_CACHED, n)
}
commit() {
  const e = this.uncommitted
  this.uncommitted = new Set()
  for (const t of e) (t.committed = !0), t.action()
}
clearProgress({ delta: e = 0, clear: t = !1 }) {
this.configuration.get('enableProgressBars') &&
!this.json &&
this.progress.size + e > 0 &&
(this.stdout.write(`[${this.progress.size + e}A`),
(e > 0 || t) && this.stdout.write([0J`))
}

writeProgress() {
if (!this.configuration.get('enableProgressBars') || this.json)
return
if (null !== this.progressTimeout &&
    clearTimeout(this.progressTimeout),
    (this.progressTimeout = null),
    0 === this.progress.size)
return
const e = Date.now()
e - this.progressTime > 80 &&
((this.progressFrame = (this.progressFrame + 1) % a.length),
this.progressTime = e))
const t = a[this.progressFrame]
for (const e of this.progress.values()) {
    const r = this.progressStyle.chars[0].repeat(e.lastScaledSize),
    A = this.progressStyle.chars[1].repeat(
        this.progressMaxScaledSize - e.lastScaledSize,
    )
    this.stdout.write(`
        ` + e.pretty(
            this.configuration,
            `",
        "blueBright",
    )} ${this.formatName(null)}: ${t} ${r}${A}
    `)
    this.progressTimeout = setTimeout(() => {
        this.refreshProgress()
    }, 80)
}

refreshProgress(e = 0) {
    let t = !1
    if (0 === this.progress.size) t = !0
    else
    for (const e of this.progress.values()) {
        const r = Math.trunc(
            this.progressMaxScaledSize * e.definition.progress,
        ),
        A = e.lastScaledSize
        if (((e.lastScaledSize = r), r !== A)) {
t = !0
break
}
}

truncate(e, { truncate: t } = {}) {
return (
    this.configuration.get('enableProgressBars') || (t = !1),
    void 0 === t &&
    (t = this.configuration.get('preferTruncatedLines')),
    t && (e = n()(e, 0, process.stdout.columns - 1)),
    e
)
}

formatName(e) {
    return d(e, { configuration: this.configuration, json: this.json })
}

formatNameWithHyperlink(e) {
    return C(e, { configuration: this.configuration, json: this.json })
}

formatIndent() {
    return ' '.repeat(this.indent)
}

81832: (e, t, r) => {

'use strict'

r.d(t, { E: () => a })

var A,
    n = r(43896),
    o = r(46009),
    i = r(79669),
    s = r(73632)

!(function (e) {
    (e.VERSION = 'version'),
    (e.COMMAND_NAME = 'commandName'),
    (e.PLUGIN_NAME = 'pluginName'),
    (e.INSTALL_COUNT = 'installCount'),
    (e.PROJECT_COUNT = 'projectCount'),
    (e.WORKSPACE_COUNT = 'workspaceCount'),
    (e.DEPENDENCY_COUNT = 'dependencyCount'),
    (e.EXTENSION = 'packageExtension')
})(A || (A = {}))

class a {
    constructor(e, t) {
        (this.values = new Map()),
        (this.hits = new Map()),

        t && (this.clearProgress({ delta: e }), this.writeProgress())
    }
}
(this.enumerators = new Map()),
(this.configuration = e)
const r = this.getRegistryPath()
:(this.isNew = !n.xfs.existsSync(r)),
this.sendReport(t),
this.startBuffer()
}
reportVersion(e) {
    this.reportValue(A.VERSION, e)
}
reportCommandName(e) {
    this.reportValue(A.COMMAND_NAME, e || `<none>`)
}
reportPluginName(e) {
    this.reportValue(A.PLUGIN_NAME, e)
}
reportProject(e) {
    this.reportEnumerator(A.PROJECT_COUNT, e)
}
reportInstall(e) {
    this.reportHit(A.INSTALL_COUNT, e)
}
reportPackageExtension(e) {
    this.reportValue(A.EXTENSION, e)
}
reportWorkspaceCount(e) {
    this.reportValue(A.WORKSPACE_COUNT, String(e))
}
reportDependencyCount(e) {
    this.reportValue(A.DEPENDENCY_COUNT, String(e))
}
reportValue(e, t) {
    s.getSetWithDefault(this.values, e).add(t)
}
reportEnumerator(e, t) {
    s.getSetWithDefault(this.enumerators, e).add(t)
}
reportHit(e, t = `*`) {
    const r = s.getMapWithDefault(this.hits, e),
    A = s.getFactoryWithDefault(r, t, () => 0)
    r.set(t, A + 1)
}
getRegistryPath() {
    const e = this.configuration.get('globalFolder')
    return o.y1.join(e, 'telemetry.json')
}
sendReport(e) {
    var t, r, A
const s = this.getRegistryPath()
let a
try {
  a = n.xfs.readJsonSync(s)
} catch (e) {
  a = {}
}
const c = Date.now(),
g =
  24 *
  this.configuration.get('telemetryInterval') *
  60 *
  60 *
  1e3,
l =
  (null !== (t = a.lastUpdate) && void 0 !== t
   ? t
   : c + g + Math.floor(g * Math.random())) + g
if (!(l > c && null != a.lastUpdate)) {
  try {
    n.xfs.mkdirSync(o.y1.dirname(s), { recursive: !0 }),
    n.xfs.writeJsonSync(s, { lastUpdate: c })
  } catch (e) {
    return
  }
  if (!(l > c) && a.blocks)
    for (const [t, n] of Object.entries(
      null !== (r = a.blocks) && void 0 !== r ? r : {},
    )) {
      if (0 === Object.keys(n).length) continue
      const r = n
      r.userId = t
      for (const e of Object.keys(
        null !== (A = r.enumerators) && void 0 !== A ? A : {},
      ))
        r.enumerators[e] = r.enumerators[e].length
      const o = 'https://browser-http-intake.logs.datadoghq.eu/v1/input/${e}?ddsource=yarn'
      i.post(o, r, {
        configuration: this.configuration,
      }).catch(() => {})
    }
}
applyChanges() {
  var e, t, r, i, s, a, c, g
  const l = this.getRegistryPath()
  let u
  try {

u = n.xfs.readJsonSync(l)
} catch (e) {
  u = []
}

const h =
  null !== (e = this.configuration.get('telemetryUserId')) &&
  void 0 !== e
  ? e
  : '*',
p = (u.blocks = null !== (t = u.blocks) && void 0 !== t ? t : {}),
d = (p[h] = null !== (r = p[h]) && void 0 !== r ? r : {})
for (const e of this.hits.keys()) {
  const t = (d.hits =
    null !== (A = d.hits) && void 0 !== A ? A : {}),
    r = (t[e] = null !== (i = t[e]) && void 0 !== i ? i : {})
  for (const [t, A] of this.hits.get(e))
    r[t] = (null !== (s = r[t]) && void 0 !== s ? s : 0) + A
  }

  const m = n.xfs.dirname(l) || '.',
  l = n.xfs.readFileSync(l, { encoding: 'utf-8', flag: 'r' })

  for (const e of ["values", 'enumerators'])
    for (const t of this[e].keys()) {
      const r = (d[e] = null !== (a = d[e]) && void 0 !== a ? a : {})
      r[t] = [
        ...new Set(
          ...(null !== (c = r[t]) && void 0 !== c ? c : []),
          ...new Set(
            ...(null !== (g = this[e].get(t)) && void 0 !== g ? g : []),
            [t]
          )
        )
      ]
    }
    n.xfs.mkdirSync(o.y1.dirname(l), { recursive: !0 }),
    n.xfs.writeJsonSync(l, u)
}

} catch (e) {
  u = []
}

const h =
  null !== (e = this.configuration.get('telemetryUserId')) &&
  void 0 !== e
  ? e
  : '*';
p = (u.blocks = null !== (t = u.blocks) && void 0 !== t ? t : {}),
d = (p[h] = null !== (r = p[h]) && void 0 !== r ? r : {})
for (const e of this.hits.keys()) {
  const t = (d.hits =
    null !== (A = d.hits) && void 0 !== A ? A : {}),
    r = (t[e] = null !== (i = t[e]) && void 0 !== i ? i : {})
  for (const [t, A] of this.hits.get(e))
    r[t] = (null !== (s = r[t]) && void 0 !== s ? s : 0) + A
  }

  const m = n.xfs.dirname(l) || '.',
  l = n.xfs.readFileSync(l, { encoding: 'utf-8', flag: 'r' })

  for (const e of ["values", 'enumerators'])
    for (const t of this[e].keys()) {
      const r = (d[e] = null !== (a = d[e]) && void 0 !== a ? a : {})
      r[t] = [
        ...new Set(
          ...(null !== (c = r[t]) && void 0 !== c ? c : []),
          ...new Set(
            ...(null !== (g = this[e].get(t)) && void 0 !== g ? g : []),
            [t]
          )
        )
      ]
    }
    n.xfs.mkdirSync(o.y1.dirname(l), { recursive: !0 }),
    n.xfs.writeJsonSync(l, u)
}

startBuffer() {
  process.on('exit', () => {
    try {
      this.applyChanges()
    } catch (e) {}
  })
}

33720: (e, t, r) => {
'use strict'
r.d(t, { $: () => n })
var A = r(35691)
class n extends A.yG {
  reportCacheHit(e) {
  } reportCacheMiss(e) {
  } startTimerSync(e, t, r) {

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async startTimerPromise(e, t, r) {
    const A = 'function' == typeof t ? t : r
    return await A()
}
async startCacheReport(e) {
    return await e()
}
reportSeparator() {}
reportInfo(e, t) {}
reportWarning(e, t) {}
reportError(e, t) {}
reportProgress(e) {
    return {
        ...Promise.resolve().then(async () => {
            for await (const {} of e);
        }),
        stop: () => {},
    }
}
reportJson(e) {}
async finalize() {}

50895: (e, t, r) => {
    'use strict'
    r.d(t, { N: () => s })
    var A = r(17674),
        n = r(14626),
        o = r(46009),
        i = r(54143)
    class s {
        supports(e) {
            return !!e.reference.startsWith('virtual:')
        }
        getLocalPath(e, t) {
            const r = e.reference.indexOf('#')
            if (-1 === r) throw new Error('Invalid virtual package reference')
            const A = e.reference.slice(r + 1),
                n = i.makeLocator(e, A)
            return t.fetcher.getLocalPath(n, t)
        }
        async fetch(e, t) {
            const r = e.reference.indexOf('#')
            if (-1 === r) throw new Error('Invalid virtual package reference')
            const A = e.reference.slice(r + 1),
                n = i.makeLocator(e, A),
                o = o.makeLocator(e, A)
            return t.fetcher.getElementsByClassName(n, t)
        }
    }
}
async ensureVirtualLink(e, t, r) {
  const i = t.packageFs.getRealPath(),
  s = r.project.configuration.get('virtualFolder'),
  a = this.getLocatorFilename(e),
  c = A.p.makeVirtualPath(s, a, i),
  g = new n.K(c, { baseFs: t.packageFs, pathUtils: o.y1 })
  return { ...t, packageFs: g }
}
}

class h {
  constructor(e, { project: t }) {
    (this.workspacesCwds = new Set()),
    (this.dependencies = new Map()),
    (this.project = t),
    (this.cwd = e)
  }

  async setup() {
    (this.manifest = A.xfs.existsSync(
      n.y1.join(this.cwd, c.G.fileName),
    )? await c.G.find(this.cwd)
    : new c.G()),
    (this.relativeCwd =
      n.y1.relative(this.project.cwd, this.cwd) || n.LZ.dot)
    const e = this.manifest.name
    ? this.manifest.name
    : u.makeIdent(
      null,
    )
  }
}
const r = this.manifest.workspaceDefinitions.map(
  ({ pattern: e }) => e,
),

  o = await i()(r, {
    absolute: !0,
    cwd: n.cS.fromPortablePath(this.cwd),
    expandDirectories: '!1,
    onlyDirectories: !0,
    onlyFiles: !1,
    ignore: ['**/node_modules', '**/.git', '**/.yarn'],
  })
  .sort()
for (const e of o) {
  const t = n.y1.resolve(this.cwd, n.cS.toPortablePath(e))
  A.xfs.existsSync(n.y1.join(t, 'package.json')) &&
  this.workspacesCwds.add(t)
}

accepts(e) {
  const t = e.indexOf(':'),
    r = -1 !== t ? e.slice(0, t + 1) : null,
    A = -1 !== t ? e.slice(t + 1) : e
  return (r === g.d.protocol && n.y1.normalize(A) === this.relativeCwd) ||
  (r === g.d.protocol && '*' === A) ||
  (!!a().validRange(A) &&
  (r === g.d.protocol &&
  ? a().satisfies(
    null !== this.manifest.version
    ? this.manifest.version
    : '0.0.0',
    A,
  )
  : !!this.project.configuration.get(}


'enableTransparentWorkspaces',

) &&
null !== this.manifest.version &&
a().satisfies(this.manifest.version, A)))

}

computeCandidateName() {
  return this.cwd === this.project.cwd
    ? 'root-workspace'
    : " + n.y1.basename(this.cwd) || 'unnamed-workspace'
}

async persistManifest() {
  const e = {}
  this.manifest.exportTo(e)
  const t = n.y1.join(this.cwd, c.G.fileName),
    r = JSON.stringify(e, null, this.manifest.indent) + '
   await A.xfs.changeFilePromise(t, r, { automaticNewlines: !0 })

}

}

}. 94538: (e, t, r) => {
  'use strict'
  r.d(t, { d: () => n })
  var A = r(32485)
  class n {
supportsDescriptor(e, t) {
    if (e.range.startsWith(n.protocol)) return !0
    return null !== t.project.tryWorkspaceByDescriptor(e)
  }
supportsLocator(e, t) {
    return !e.reference.startsWith(n.protocol)
  }
shouldPersistResolution(e, t) {
  return !1
}
bindDescriptor(e, t, r) {
  return e
}
getResolutionDependencies(e, t) {
  return []
}
async getCandidates(e, t, r) {
  return [r.project.getWorkspaceByDescriptor(e).anchoredLocator]
}
async getSatisfying(e, t, r) {
  return null
}
async resolve(e, t) {
const r = t.project.getWorkspaceByCwd(
e.reference.slice(n.protocol.length),
)
return {
...e,
version: r.manifest.version || '0.0.0',
languageName: 'unknown',
linkType: A.Un.SOFT,
dependencies: new Map([
...r.manifest.dependencies,
...r.manifest.devDependencies,
]),
peerDependencies: new Map([...r.manifest.peerDependencies]),
dependenciesMeta: r.manifest.dependenciesMeta,
peerDependenciesMeta: r.manifest.peerDependenciesMeta,
bin: r.manifest.bin,
}
}
}
n.protocol = 'workspace:'
},
59355: (e, t, r) => {
 'use strict'
r.d(t, { o: () => A })
const A = '2.4.0'
},
6220: (e, t, r) => {
 'use strict'
r.r(t),
r.d(t, { EndStrategy: () => A, pipevp: () => g, execvp: () => l })
var A,
n = r(46009),
o = r(67566),
i = r.n(o)
function s(e) {
 return null !== e && 'number' === typeof e.fd
}
function a() {
!(function (e) {
 :e[(e.Never = 0)] = 'Never',
 :e[(e.ErrorCode = 1)] = 'ErrorCode',
 :e[(e.Always = 2)] = 'Always'
})(A || (A = {}))
let c = 0
async function g(
 e,
t,
{
const C = ['pipe', 'pipe', 'pipe']
null === l ? (C[0] = 'ignore') : s(l) && (C[0] = l),
s(u) && (C[1] = u),
s(p) && (C[2] = p),
0 == c++ && process.on('SIGINT', a)
const f = i(e, t, { cwd: n.cS.fromPortablePath(r),
env: { ...o, PWD: n.cS.fromPortablePath(r) },
stdio: C,
})
s(l) || null === l || l.pipe(f.stdin),
s(u) || f.stdout.pipe(u, { end: !1 }),
s(p) || f.stderr.pipe(p, { end: !1 })
const I = () => {
  for (const e of new Set([u, p])) s(e) || e.end()
}
return new Promise((t, r) => {
f.on('error', (e) => {
  0 == --c && process.off('SIGINT', a),
  (d !== A.Always && d !== A.ErrorCode) || I(),
  r(e)
}),
f.on('close', (n, o) => {
  0 == --c && process.off('SIGINT', a),
  (d !== A.Always || (d !== A.ErrorCode && n > 0)) && I(),
  0 !== n && g
    ? r(
        null !== n
          ? new Error(`Child "$e" exited with exit code $n`)
          : new Error(`Child "$e" exited with signal $o`),
        )
          : t({ code: h(n, o) })
    )
},
})
async function l(
e, 
t, 

cwd: r,
env: A = process.env,
encoding: o = 'utf8',
strict: s = !1,
)

const a = ['ignore', 'pipe', 'pipe'],
c = [],
g = [],
l = n.cS.fromPortablePath(r)
void 0 !== A.PWD && (A = { ...A, PWD: l })
const u = i()(e, t, { cwd: l, env: A, stdio: a })
return ( u.stdout.on('data', (e) => { c.push(e) }), u.stderr.on('data', (e) => { g.push(e) }), await new Promise((t, r) => { u.on('error', r), u.on('close', (A, n) => { const i = 'buffer' === o ? Buffer.concat(c) : Buffer.concat(c).toString(o), a = 'buffer' === o ? Buffer.concat(g) : Buffer.concat(g).toString(o) 0 !== A && s ? r(A && s ? ( Object.assign(new Error(
  `Child "$e" exited with exit code $A\\n\n${a}`),
  { code: h(A, n), stdout: i, stderr: a }
)
)
)
: t({ code: h(A, n), stdout: i, stderr: a })
})

})

const u = new Map([ ['SIGINT', 2], ['SIGQUIT', 3], ['SIGKILL', 9],]
function h(e, t) {
    const r = u.get(t)
    return void 0 !== r ? 128 + r : null !== e ? e : 1
}

},
81111: (e, t, r) => {
    'use strict'
    r.r(t),
    r.d(t, {
        getDefaultGlobalFolder: () => o,
        getHomeFolder: () => i,
        isFolderInside: () => s,
    })
}
var A = r(46009),
n = r(12087)
function o() {
    if ('win32' === process.platform) {
        const e = A.cS.toPortablePath(process.env.LOCALAPPDATA || A.cS.join((0, n.homedir)(), 'AppData', 'Local'),
            A.cS.join((0, n.homedir)(), 'AppData', 'Local'),
        )
        return A.y1.resolve(e, 'Yarn/Berry')
    }
    if (process.env.XDG_DATA_HOME) {
        const e = A.cS.toPortablePath(process.env.XDG_DATA_HOME)
        return A.y1.resolve(e, 'yarn/berry')
    }
    return A.y1.resolve(i(), '.yarn/berry')
}
function i() {
    return A.cS.toPortablePath((0, n.homedir)() || '/usr/local/share')
}
function s(e, t) {
    const r = A.y1.relative(t, e)
    return r && !r.startsWith('..') && !A.y1.isAbsolute(r)
}
},
71643: (e, t, r) => {
    'use strict'
    r.r(t),
    r.d(t, {
        Type: () => A,
        Style: () => n,
        supportsColor: () => h,
        supportsHyperlinks: () => p,
        tuple: () => I,
null
h = 0 !== u.level,
p = h && !process.env.GITHUB_ACTIONS,
d = new (s().Instance)(u),
C = new Map([ 
   [A.NO_HINT, null],
   [A.NULL, ['#a853b5', 129]],
   [A.SCOPE, ['#d75f00', 166]],
   [A.NAME, ['#d7875f', 173]],
   [A.RANGE, ['#00afaf', 37]],
   [A REFERENCE, ['#87afff', 111]],
   [A.NUMBER, ['#fffd700', 220]],
   [A. PATH, ['#d75fd7', 170]],
   [A.URL, ['#d75fd7', 170]],
   [A.ADDED, ['#5fa000', 70]],
   [A.REMOVED, ['#d70000', 160]],
   [A.COD E, ['#87afff', 111]],
   [A.SIZ E, ['#fffd700', 220]],
]);

f = {
   [A.NUMBER]: { pretty: (e, t) => " + t, json: (e) => e },
   [A. IDENT]: {
      pretty: (e, t) => g.prettyIdent(e, t),
      json: (e) => g.stringifyIdent(e),
   },
   [A.LOCATOR]: {
      pretty: (e, t) => g.prettyLocator(e, t),
      json: (e) => g.stringifyLocator(e),
   },
   [A.DESCRIPTOR]: {
      pretty: (e, t) => g.prettyDescriptor(e, t),
      json: (e) => g.stringifyDescriptor(e),
   },
   [A.RESOLUTION]: {
      pretty: (e, { descriptor: t, locator: r }) =>
         g.prettyResolution(e, t, r),
      json: ( { descriptor: e, locator: t } ) => ( {
         descriptor: g.stringifyDescriptor(e),
         locator: null !== t ? g.stringifyLocator(t) : null,
      } ),
   },
   [A.DEPENDENT]: {
      pretty: (e, { locator: t, descriptor: r }) =>
         g.prettyDependent(e, t, r),
      json: ( { locator: e, descriptor: t } ) => ( {
         locator: g.stringifyLocator(e),
         descriptor: g.stringifyDescriptor(t),
      } ),
   },
};
[A.PACKAGE_EXTENSION]: {
pretty: (e, t) => {
  switch (t.type) {
    case l.HN.Dependency:
      return `$(g.prettyIdent(e, t.parentDescriptor)) $B(e,
      'dependencies',
      A.CODE,
      ) $(g.prettyIdent(e, t.descriptor))`
    case l.HN.PeerDependency:
      return `$(g.prettyIdent(e, t.parentDescriptor)) $B(e,
      'peerDependencies',
      A.CODE,
      ) $(g.prettyIdent(e, t.descriptor))`
    case l.HN.PeerDependencyMeta:
      return `$(g.prettyIdent(e, t.parentDescriptor)) $B(e,
      'peerDependenciesMeta',
      A.CODE,
      ) $(g.prettyIdent(e, g.parseIdent(t.selector))) $B(e,
      t.key,
      A.CODE,
      )'
    default:
      throw new Error(
        'Assertion failed: Unsupported package extension type: ' +
        t.type,
      )
  }
},
json: (e) => {
  switch (e.type) {
    case l.HN.Dependency:
      return `$(g.stringifyIdent(e.parentDescriptor),
      e.descriptor)`
    case l.HN.PeerDependency:
      return `$(g.stringifyIdent(e.parentDescriptor),
      e.descriptor) >> $(g.stringifyIdent(e.descriptor))`
    case l.HN.PeerDependencyMeta:
      return `$(g.stringifyIdent(e.parentDescriptor)) >> {
      selector / e.key
    }`
    default:
      throw new Error(
        'Assertion failed: Unsupported package extension type: ' +
        e.type,
      )
  }
},
}

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'Assertion failed: Unsupported package extension type: ' +
e.type,
}
]
}
[A.DURATION]: {
    pretty: (e, t) => {
        if (t > 6e4) {
            const e = Math.floor(t / 1e3 / 60),
            r = Math.ceil((t - 60 * e * 1e3) / 1e3)
            return 0 === r ? e + 'm': `$${e}m ${r}s`;
        }
        const e = Math.floor(t / 1e3),
        r = t - 1e3 * e
        return 0 === r ? e + 's': `$${e}s ${r}ms`;
    },
    json: (e) => e,
},
[A.SIZE]: {
    pretty: (e, t) => {
        const r = ['KB', 'MB', 'GB', 'TB']
        let n = r.length
        for (; n > 1 && t < 1024 ** n; ) n -= 1
        const a = 1024 ** n
        return B(
            e,
            `$${Math.floor((100 * t) / a) / 100} ${r[n - 1]}`,
            A.NUMBER,
        ),
    },
    json: (e) => e,
},
[A.PATH]: {
    pretty: (e, t) => B(e, o.cS.fromPortablePath(t), A.PATH),
    json: (e) => o.cS.fromPortablePath(e),
},
}
function I(e, t) {
    return [t, e]
}
function E(e, t, r) {
    return e.get('enableColors')
    ? (r & n.BOLD && (t = s().bold(t)), t)
    : t
}
```javascript
function B(e, t, r) {
  if (!e.get('enableColors')) return t
  const A = C.get(r)
  if (null === A) return t
  o =
  'number' == typeof n
  ? d.ansi256(n)
  : n.startsWith('#')
  ? d.hex(n)
  : d[n]
  if ('function' != typeof o)
    throw new Error('Invalid format type ' + n)
  return o(t)
}

function y(e, t, r) {
  if (null === t) return B(e, 'null', A.NULL)
  if (Object.prototype.hasOwnProperty.call(f, r)) {
    return f[r].pretty(e, t)
  }
  if ('string' != typeof t)
    throw new Error('Assertion failed: Expected the value to be a string, got ' + typeof t,
  )
  return B(e, t, r)
}

function m(e, t, r, { separator: A = ', ' } = {}) {
  return [...t].map((t) => y(e, t, r)).join(A)
}

function w(e, t) {
  if (null === e) return null
  if (Object.prototype.hasOwnProperty.call(f, t))
    return c.overrideType(t), f[t].json(e)
  if ('string' != typeof e)
    throw new Error('Assertion failed: Expected the value to be a string, got ' + typeof e,
  )
  return e
}

function Q(e) {
  return {
    Check: B(e, '', 'green'),
    Cross: B(e, '', 'red'),
    Question: B(e, '?', 'cyan'),
  }
}
```
var D
function b(e, { configuration: t }) {
    const r = t.get('logFilters'),
        A = new Map(),
        n = new Map()
    for (const e of r) {
        const t = e.get('level')
        if (void 0 === t) continue
        const r = e.get('code')
        void 0 !== r && A.set(r, t)
        const o = e.get('text')
        void 0 !== o && n.set(o, t)
    }
    const o = e.reportInfo,
        i = e.reportWarning,
        c = e.reportError,
        g = function (e, t, r, g) {
            switch (
                ((e, t, r) => {
                    if (null === e || e === a.b.UNNAMED) return r
                    if (n.size > 0) {
                        const e = n.get(s().reset(t))
                        if (void 0 !== e) return null != e ? e : r
                    }
                    if (A.size > 0) {
                        const t = A.get((0, a.i)(e))
                        if (void 0 !== t) return null != t ? t : r
                    }
                    return r
                })(t, r, g)
            ) {
                case D.Info:
                    o.call(e, t, r)
                    break
                case D.Warning:
                    i.call(e, null !== t ? t : a.b.UNNAMED, r)
                    break
                case D.Error:
                    c.call(e, null !== t ? t : a.b.UNNAMED, r)
            };
        };
    (e.reportInfo = function (...e) {
        return g(this, ...e, D.Info)
    }),
    (e.reportWarning = function (...e) {
        return g(this, ...e, D.Warning)
    }),
    (e.reportError = function (...e) {
(!function (e) {
    (e.Error = 'error'),
    (e.Warning = 'warning'),
    (e.Info = 'info'),
    (e.Discard = 'discard')
})(D || (D = {}))

20624: (e, t, r) => {
    'use strict'
    r.r(t),
    r.d(t, {
        makeHash: () => a,
        checksumFile: () => c,
        checksumPattern: () => g,
    })
    var A = r(43896),
    n = r(46009),
    o = r(76417),
    i = r(58592),
    s = r.n(i)
    function a(...e) {
        const t = (0, o.createHash)('sha512')
        for (const r of e) t.update(r || '')
        return t.digest('hex')
    }
    function c(e) {
        return new Promise((t, r) => {
            const n = (0, o.createHash)('sha512'),
            i = A.xfs.createReadStream(e)
            i.on('data', (e) => {
                n.update(e)
            }),
            i.on('error', (e) => {
                r(e)
            }),
            i.on('end', () => {
                t(n.digest('hex'))
            })
        })
    }
    async function g(e, { cwd: t }) {
        const r = ( await s())(e, {
            cwd: n.cS.fromPortablePath(t),
            expandDirectories: !1,
onlyDirectories: !0,
unique: !0,
})
).map((e) => e + '/**/*'),
i = await s0([e, ...r], {
cwd: n.cS.fromPortablePath(t),
expandDirectories: !1,
onlyFiles: !1,
unique: !0,
})
i.sort()
const a = await Promise.all(
i.map(async (e) => {
const t = [Buffer.from(e)],
r = n.cS.toPortablePath(e),
o = await A.xfs.lstatPromise(r)
return (o.isSymbolicLink() ? t.push(Buffer.from(await A.xfs.readlinkPromise(r))) : o.isFile() && t.push(await A.xfs.readFilePromise(r)), t.join('0'))
}),
),
c = (0, o.createHash)('sha512')
for (const e of a) c.update(e)
return c.digest('hex')
}
},
79669: (e, t, r) => {
'use strict'
r.r(t),
r.d(t, {getNetworkSettings: () => d,
Method: () => C,
request: () => f,
get: () => I,
put: () => E,
post: () => B,
del: () => y,
})
var A = r(43896),
n = r(57211),
o = r(98605),
i = r(2401),
s = r.n(i),
a = r(98161),
c = r(78835)
const g = new Map(),
l = new Map(),
u = new o.Agent({ keepAlive: !0 }),
h = new n.Agent({ keepAlive: !0 })
function p(e) {
    const t = new c.URL(e),
    r = { host: t.hostname, headers: {} }
    return t.port && (r.port = Number(t.port)), { proxy: r }
}
function d(e, t) {
    const r = [...t.configuration.get('networkSettings')].sort(
        ([e], [t]) => t.length - e.length,
    ),
    A = {
        enableNetwork: void 0,
        caFilePath: void 0,
        httpProxy: void 0,
        httpsProxy: void 0,
    },
    n = Object.keys(A),
o = new c.URL(e)
    for (const [e, t] of r)
        if (s().isMatch(o.hostname, e))
            for (const e of n) {
                const r = t.get(e)
                null !== r && void 0 === A[e] && (A[e] = r)
            }
    for (const e of n) void 0 === A[e] && (A[e] = t.configuration.get(e))
    return A
}
var C
async function f(
    e,
    t,
    {
        configuration: n,
        headers: o,
        json: i,
        jsonRequest: g = i,
        jsonResponse: f = i,
        method: I = C.GET,
    },
)
{
    const E = d(e, { configuration: n })
    if (!1 === E.enableNetwork)
        throw new Error(  `Request to '${e}' has been blocked because of your configuration settings`, 
    )
const B = new c.URL(e)
if (  
  'http:' === B.protocol &&
  !s().isMatch(B.hostname, n.get('unsafeHttpWhitelist'))
)
  throw new Error(  
    'Unsafe http requests must be explicitly whitelisted in your configuration (${B.hostname})',
  )

const y = {  
  agent: {  
    https: E.httpsProxy ? a.httpsOverHttp(p(E.httpsProxy)) : h,  
  },
  headers: o,
  method: I,
};
(y.responseType = f ? 'json' : 'buffer'),
null !== t &&
(Buffer.isBuffer(t) || (!g && 'string' === typeof t))
  ? (y.body = t)
  : (y.json = t)

const m = n.get('httpTimeout'),
w = n.get('httpRetry'),
Q = n.get('enableStrictSsl'),
D = E.caFilePath,
{ default: b } = await Promise.resolve().then(  
  r.t.bind(r, 48722, 7),
),

v = D
? await (async function (e) {
  let t = l.get(e)
  return (  
    t ||
    ((t = A.xfs.readFilePromise(e)  
      .then((t) => (l.set(e, t), t)),  
      l.set(e, t)),
    t  
  )
  )
})(D)
: void 0,
S = b.extend({  
  timeout: { socket: m },  
  retry: w,  
  https: { rejectUnauthorized: Q, certificateAuthority: v },  
  ...
},
)
return n.getLimit('networkConcurrency')(() => S(e))
async function I(e,
{ configuration: t, json: r, jsonResponse: A = r, ...n },
)
{
  let o = g.get(e)
  return (o ||
    ((o = f(e, null, { configuration: t, ...n }).then(
      (t) => (g.set(e, t.body), t.body),
    ),
    g.set(e, o)),
    !1 === Buffer.isBuffer(o) && (o = await o),
    A ? JSON.parse(o.toString()) : o
  )
}
async function E(e, t, r) {
  return (await f(e, t, { ...r, method: C.PUT })).body
}
async function B(e, t, r) {
  return (await f(e, t, { ...r, method: C.POST })).body
}
async function y(e, t) {
  return (await f(e, null, { ...t, method: C.DELETE })).body
}
!(function (e) {
  (e.GET = 'GET'),
  (e.PUT = 'PUT'),
  (e.POST = 'POST'),
  (e.DELETE = 'DELETE')
})(C || (C = {}))
}
53836: (e, t, r) => {
  'use strict'
  r.r(t),
  r.d(t, {
    Cache: () => p.C,
    DEFAULT_RC_FILENAME: () => d.tr,
    DEFAULT_LOCK_FILENAME: () => d.nh,
    Configuration: () => d.VK,
    FormatType: () => d.a5,
    ProjectLookup: () => d.EW,
    SettingsType: () => d.a2,
    BuildType: () => C.k,
    LightReport: () => f.h,
    Manifest: () => I.G,
    MessageName: () => E.b,
    Project: () => B.I,
b = r(60895),
v = r(94538),
S = r(17722),
k = r(59355),
N = r(32485)
},
73632: (e, t, r) => {
'use strict'

r.rr(t),

e.escapeRegExp: () => a,
overrideType: () => c,
assertNever: () => g,
validateEnum: () => I,
mapAndFilter: () => u,
mapAndFind: () => p,
isIndexableObject: () => C,
convertMapsToIndexableObjects: () => f,
getFactoryWithDefault: () => I,
getArrayWithDefault: () => E,
getSetWithDefault: () => B,
getMapWithDefault: () => y,
releaseAfterUseAsync: () => m,
prettifyAsyncErrors: () => w,
prettifySyncErrors: () => Q,
bufferStream: () => D,
BufferStream: () => b,
DefaultStream: () => v,
dynamicRequire: () => S,
dynamicRequireNoCache: () => k,
sortMap: () => N,
buildIgnorePattern: () => F,
replaceEnvVariables: () => K,
parseBoolean: () => M,
parseOptionalBoolean: () => R,
tryParseOptionalBoolean: () => x,
})

var A = r(46009),
n = r(40822),
o = r(2401),
i = r.n(o),
s = r(92413)

function a(e) {
  return e.replace(/\[\*+?\^\$\(\)\[\]\{\}\|\?\]/g, '\$&')
}

function c(e) {}

function g(e) {
  throw new Error(`Assertion failed: Unexpected object '${e}'`)
function l(e, t) {
    if (!$.values(e).includes(t))
        throw new Error('Assertion failed: Invalid value for enumeration')
    return t
}

function u(e, t) {
    const r = []
    for (const A of e) {
        const e = t(A)
        e !== h && r.push(e)
    }
    return r
}

e = r.hmd(e)
const h = Symbol()
function p(e, t) {
    for (const r of e) {
        const e = t(r)
        if (e !== d) return e
    }
}

u.skip = h
const d = Symbol()
function C(e) {
    return 'object' == typeof e && null !== e
}

function f(e) {
    if ((e instanceof Map && (e = Object.fromEntries(e)), C(e)))
        for (const t of Object.keys(e)) {
            const r = e[t]
            C(r) && (e[t] = f(r))
        }
    return e
}

function I(e, t, r) {
    let A = e.get(t)
    return void 0 === A && e.set(t, (A = r())), A
}

function E(e, t) {
    let r = e.get(t)
    return void 0 === r && e.set(t, (r = [])), r
}

function B(e, t) {
    let r = e.get(t)
    return void 0 === r && e.set(t, (r = new Set())), r
}

function y(e, t) {
}
let r = e.get(t)
return void 0 === r && e.set(t, (r = new Map()), r)
}
async function m(e, t) {
  if (null == t) return await e()
  try {
    return await e()
  } finally {
    await t()
  }
}
async function w(e, t) {
  try {
    return await e()
  } catch (e) {
    throw ((e.message = t(e.message)), e)
  }
}
function Q(e, t) {
  try {
    return e()
  } catch (e) {
    throw ((e.message = t(e.message)), e)
  }
}
async function D(e) {
  return await new Promise((t, r) => {
    const A = []
    e.on('error', (e) => {
      r(e)
    }),
    e.on('data', (e) => {
      A.push(e)
    }),
    e.on('end', () => {
      t(Buffer.concat(A))
    })
  })
}
p.skip = d
class b extends s.Transform {
  constructor() {
    super(...arguments), (this.chunks = [])
  }
  _transform(e, t, r) {
    if ('buffer' !== t || !Buffer.isBuffer(e))
      throw new Error('Assertion failed: BufferStream only accept buffers',
          )
  }
}
for (const r of A) {
    if (0 !== A) return A
} return 0
)n.map((e) => r[e])
)
}

function F(e) {
    return 0 === e.length ? null : e.map((e) => `(${i().makeRe(e, { windows: !1 }).source})`) .join('|')
}

function K(e, { env: t }) {
    return e.replace(/\${(?<variableName>[\d\w_\-]+)(?<colon>:)?(?:-(?<fallback>[^}\]*))?}$/g, (...e) => {
        const { variableName: r, colon: A, fallback: o } = e[e.length - 1],
            s = t[r]
        if (s) return s
        if (i && !A) return s
        if (null != o) return o
        throw new n.UsageError(`Environment variable not found (${r})`)
    })
}

function M(e) {
    switch (e) {
        case 'true':
        case '1':
        case 1:
        case !0:
            return !0
        case 'false':
        case '0':
        case 0:
        case !1:
            return !1
        default:
            throw new Error(`Couldn't parse "${e}" as a boolean`) 
    }
}
function R(e) {
  return void 0 === e ? e : M(e)
}

function x(e) {
  try {
    return R(e)
  } catch (e) {
    return null
  }
}

63088: (e, t, r) => {
  'use strict'
  r.r(t),
  r.d(t, {
    makeScriptEnv: () => b,
    prepareExternalProject: () => S,
    hasPackageScript: () => k,
    executePackageScript: () => N,
    executePackageShellcode: () => F,
    executeWorkspaceScript: () => M,
    hasWorkspaceScript: () => R,
    executeWorkspaceLifecycleScript: () => x,
    maybeExecuteWorkspaceLifecycleScript: () => L,
    getPackageAccessibleBinaries: () => P,
    getWorkspaceAccessibleBinaries: () => O,
    executePackageAccessibleBinary: () => U,
    executeWorkspaceAccessibleBinary: () => T,
  })
  var A,
  n = r(46009),
  o = r(53660),
  i = r(75448),
  s = r(43896),
  a = r(65281),
  c = r(76756),
  g = r(50730),
  l = r(61814),
  u = r.n(l),
  h = r(61578),
  p = r.n(h),
  d = r(92413),
  C = r(46611),
  f = r(92659),
  I = r(35691),
  E = r(15815),
  B = r(59355),
  y = r(6220),
m = r(71643),
w = r(73632),
Q = r(54143)
async function D(e, t, r, A = []) {
'win32' === process.platform &&
(await Promise.all([
s.xfs.writeFilePromise(
n.y1.format({ dir: e, name: t, ext: '.exe' }),
(0, g.O9)(),
),
s.xfs.writeFilePromise(
n.y1.format({ dir: e, name: t, ext: '.exe.info' }),
[r, ...A].join('\n'),
),
s.xfs.writeFilePromise(
n.y1.format({ dir: e, name: t, ext: '.cmd' }),
`@"${r}" ${A.map((e) => `"${e.replace('"', '""')}"`).join(
' ',
)} %*\n`,
),
])),
await s.xfs.writeFilePromise(
n.y1.join(e, t),
`#!/bin/sh\nexec "${r}" ${A.map(
(e) => `'${e.replace(/'/g, "'\"'\"'")}'`,
).join(' ')} "$@"\n`,
),
await s.xfs.chmodPromise(n.y1.join(e, t), 493)
}
async function b({ project: e, binFolder: t, lifecycleScript: r }) {
const A = {}
for (const [e, t] of Object.entries(process.env))
void 0 !== t && (A['path' !== e.toLowerCase() ? e : 'PATH'] = t)
const o = n.cS.fromPortablePath(t)
;(A.BERRY_BIN_FOLDER = n.cS.fromPortablePath(o)),
await D(t, 'node', process.execPath),
null !== B.o &&
(await D(t, 'run', process.execPath, [process.argv[1], 'run']),
await D(t, 'yarn', process.execPath, [process.argv[1]]),
await D(t, 'yarnpkg', process.execPath, [process.argv[1]]),
await D(t, 'node-gyp', process.execPath, [
process.argv[1],
'run',
'--top-level',
'node-gyp',
])),
e &&
(A.INIT_CWD = n.cS.fromPortablePath(e.configuration.startingCwd)),

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(A.PATH = A.PATH ? `${o}${n.cS.delimiter}${A.PATH}` : " + o),
(A.npm_execpath = `${o}${n.cS.sep}yarn`),
(A.npm_node_execpath = `${o}${n.cS.sep}node`)

const i =
null !== B.o
? 'yarn' + B.o
: `yarn/${w.dynamicRequire('@yarnpkg/core').version}-core`

return (
(A.npm_config_user_agent = `$i npm/? node/${process.versions.node} ${process.platform}
${process.arch}`),

r && (A.npm_lifecycle_event = r),

e &&

(await e.configuration.triggerHook(
  (e) => e.setupScriptEnvironment,
  e,
  A,
  async (e, r, A) => await D(t, (0, n.Zu)(e), r, A),
  )", A)
)

!(function (e) {
  (e.Yarn1 = 'Yarn Classic'),
  (e.Yarn2 = 'Yarn'),
  (e.Npm = 'npm'),
  (e.Pnpm = 'pnpm')
})(A || (A = {}))

const v = p()(2)

async function S(e, t, { configuration: r, report: o, workspace: i = null }) {
  await v(async () => {
    await s.xfs.mktempPromise(async (a) => {
      const c = n.y1.join(a, 'pack.log'),
        { stdout: g, stderr: l } = r.getSubprocessStreams(c, {
          prefix: e,
          report: o,
        }),
      u = await (async function (e) {
        let t = null
        try {
          t = await s.xfs.readFilePromise(n.y1.join(e, n.QS.lockfile),
            utf8',
          )
        } catch (e) { }
      }
    )
  })
}
return null !== t
? t.match(/__metadata:$/m)
? A.Yarn2
: A.Yarn1
: s.xfs.existsSync(n.y1.join(e, 'package-lock.json'))
? A.Npm
: s.xfs.existsSync(n.y1.join(e, 'pnpm-lock.yaml'))
? A.Pnpm
: null
})(e)
let h
null !== u
? (g.write(`Installing the project using ${u}\n\n`), (h = u))
: (g.write('No package manager detected; defaulting to Yarn\n\n'),
(h = A.Yarn2)),
await s.xfs.mktempPromise(async (r) => {
const o = await b({ binFolder: r }),
u = new Map([
[ A.Yarn1,
async () => {
const r = null !== i ? ['workspace', i] : [],
A = await y.pipevp('yarn',
['set', 'version', 'classic', '--only-if-needed'],
{ cwd: e,
  env: o,
  stdin: null,
  stdout: g,
  stderr: l,
  end: y.EndStrategy.ErrorCode,
},
)
if (0 !== A.code) return A.code
await s.xfs.appendFilePromise(
n.y1.join(e, '.npmignore'),
'/yarn\n',
),
g.write('
')
const a = await y.pipevp('yarn', ['install'], {
cwd: e,
env: o,
stdin: null,
stdout: g,
stderr: l,
end: y.EndStrategy.ErrorCode,
})
if (0 !== a.code) return a.code
g.write("\n")
const c = await y.pipevp(
'yarn',
[
...r,
'pack',
'--filename',
n.cS.fromPortablePath(t),
].
{
  cwd: e,
  env: o,
  stdin: null,
  stdout: g,
  stderr: l,
},
)
return 0 !== c.code ? c.code : 0
],
].
[A.Yarn2,
async () => {
  const r = null !== i ? ['workspace', i] : []
o.YARN_ENABLE_INLINE_BUILDS = '1'
const A = n.y1.join(e, n.QS.lockfile)
):(await s.xfs.existsPromise(A)) ||
( await s.xfs.writeFilePromise(A, ")
)
const a = await y.pipevp(
'yarn',
[
...r,
'pack',
'--install-if-needed',
'--filename',
n.cS.fromPortablePath(t),
].
{
  cwd: e,
  env: o,
  stdin: null,
  stdout: g,
  stderr: l,
},
)
}
return 0 !== a.code ? a.code : 0
],
],
[  
A.Npm,
async () => {  
  if (null !== i)
    throw new Error(
      "Workspaces aren’t supported by npm, which has been detected as the primary package manager for " +
      e,
    )
  delete o.npm_config_user_agent
  const r = await y.pipevp('npm', ['install'], {  
    cwd: e,
    env: o,
    stdin: null,
    stdout: g,
    stderr: l,
    end: y.EndStrategy.ErrorCode,
  })
  if (0 !== r.code) return r.code
  const A = new d.PassThrough(),
  a = w.bufferStream(A)
  A.pipe(g)
  const c = await y.pipevp(  
    'npm',
    ['pack', '--silent'],
    {  
      cwd: e,
      env: o,
      stdin: null,
      stdout: A,
      stderr: l,
    },
  )
  if (0 !== c.code) return c.code
  const u = (await a).toString().trim(),
  h = n.y1.resolve(e, n.cS.toPortablePath(u))
  return await s.xfs.renamePromise(h, t), 0
],
],
).get(h)
if (void 0 === u)
  throw new Error('Assertion failed: Unsupported workflow')
const p = await u()
if (0 !== p && void 0 !== p)
  throw (}
async function k(e, t, { project: r }) {
    const A = r.storedPackages.get(e.locatorHash)
    if (!A)
        throw new Error(`Package for ${Q.prettyLocator(r.configuration, e, } not found in the project`, )
    return await o.A.openPromise(
        async (e) => {
            const o = r.configuration,
                s = r.configuration.getLinkers(),
                a = {
                    report: new E.Pk({
                        stdout: new d.PassThrough(),
                        configuration: o,
                    }),
                },
                c = s.find((e) => e.supportsPackage(A, a))
            if (!c)
                throw new Error(`The package ${Q.prettyLocator(r.configuration, A, )} isn't supported by any of the available linkers`, )
            const g = await c.findPackageLocation(A, a),
                l = new i.M(g, { baseFs: e })
            return (await C.G.find(n.LZ.dot, { baseFs: l })).scripts.has(t)
        }, { libzip: await (0, a.getLibzipPromise)() },
    )
}
r,
(cwd: A, project: n, stdin: o, stdout: i, stderr: a },
)
return await s.xfs.mktempPromise(async (s) => {
const { manifest: g, env: l, cwd: u } = await K(e, {
project: n,
binFolder: s,
cwd: A,
lifecycleScript: t,
}),
h = g.scripts.get(t)
if (void 0 === h) return 1
const p = await n.configuration.reduceHook(
(e) => e.wrapScriptExecution,
async () =>
await (0, c.execute)(h, r, {
cwd: u,
env: l,
stdin: o,
stdout: i,
stderr: a,
}),
n,
e,
t,
{
script: h,
args: r,
cwd: u,
env: l,
stdin: o,
stdout: i,
stderr: a,
},
)
return await p()
})
async function F(e, t, r,
(cwd: A, project: n, stdin: o, stdout: i, stderr: a },
)
return await s.xfs.mktempPromise(async (s) => {
const { env: g, cwd: l } = await K(e, {
project: n,
binFolder: s,
async function K(e, { project: t, binFolder: r, cwd: A, lifecycleScript: s }) {
    const c = t.storedPackages.get(e.locatorHash)
    if (!c)
        throw new Error(`Package for ${Q.prettyLocator(t.configuration, e, }) not found in the project`);
    return await o.A.openPromise(async (o) => {
        const a = t.configuration, g = t.configuration.getLinkers(), l = {
            project: t, report: new E.Pk({ stdout: new d.PassThrough(), configuration: a, }),
        }, u = g.find((e) => e.supportsPackage(c, l))
        if (!u)
            throw new Error(`The package ${Q.prettyLocator(t.configuration, c, }) isn’t supported by any of the available linkers`);
        const h = await b({ project: t, binFolder: r, lifecycleScript: s, })
        await Promise.all(
            cwd: A,
        )
        return await (0, c.execute)(t, r, {
            cwd: l, env: g, stdin: o, stdout: i, stderr: a,
        })
    })
}
Array.from(await P(e, { project: t }), ([e, t]) =>
  D(r, (0, n.Zu)(e), process.execPath, [t]),
),
)

const p = await u.findPackageLocation(c, l),
  f = new i.M(p, { baseFs: o }),
  l = await C.G.find(n.LZ.dot, { baseFs: f })
return {
  void 0 === A && (A = p),
  { manifest: I, binFolder: r, env: h, cwd: A }
}.

{ libzip: await (0, a.getLibzipPromise)() },
)
}
async function M(e, t, r, { cwd: A, stdin: n, stdout: o, stderr: i }) {
  return await N(e.anchoredLocator, t, r, {
    cwd: A,
    project: e.project,
    stdin: n,
    stdout: o,
    stderr: i,
  })
}

function R(e, t) {
  return e.manifest.scripts.has(t)
}
async function x(e, t, { cwd: r, report: A }) {
  const { configuration: o } = e.project
  await s.xfs.mktempPromise(async (i) => {
    const a = n.y1.join(i, t + '.log'),
      c = `# This file contains the result of Yarn calling the "${t}" lifecycle script inside a workspace
      "${e.cwd}"\n`,
      { stdout: g, stderr: l } = o.getSubprocessStreams(a, {
        report: A,
        prefix: Q.prettyLocator(o, e.anchoredLocator),
        header: c,
      })
    A.reportInfo(f.b.LIFECYCLE_SCRIPT,
      `Calling the "$t" lifecycle script`,
    )
  const h = await M(e, t, [], {
    cwd: r,
    stdin: null,
    stdout: g,
    stderr: l,
  })
}
if ((g.end(), l.end(), 0 !== h))
   throw (
      (s.xfs.detachTemp(i),
       new I.lk(
          f.b.LIFECYCLE_SCRIPT,
          `\${m}({t}) script failed (exit code \${m})`,
          h,
          m.Type.NUMBER,
          )).logs can be found here: \${m},
       a,
       m.Type.PATH,
       )); run \${m}('yarn ' + t,
       m.Type.CODE,
       ) to investigate`,
   )
)}
)
)
})
async function L(e, t, r) {
   R(e, t) && (await x(e, t, r))
}
async function P(e, { project: t }) {
   const r = t.configuration,
   A = new Map(),
   o = t.storedPackages.get(e.locatorHash)
   if (!o)
      throw new Error(
      `Package for \${Q} not found in the project`,
   )
const i = new d.Writable(),
   s = r.getLinkers(),
   a = {
      project: t,
      report: new E.Pk({ configuration: r, stdout: i }),
   },
   c = new Set([e.locatorHash])
for (const e of o.dependencies.values()) {
   const A = t.storedResolutions.get(e.descriptorHash)
   if (!A)
      throw new Error(
      `Assertion failed: The resolution \${Q} descriptor`,
   )
}) should have been registered`,
```javascript
for (const e of c) {
    const r = t.storedPackages.get(e)
    if (!r)
        throw new Error('Assertion failed: The package (${e}) should have been registered',
    )
    if (0 === r.bin.size) continue
    const o = s.find((e) => e.supportsPackage(r, a))
    if (!o) continue
    let i = null
    try {
        i = await o.findPackageLocation(r, a)
    } catch (e) {
        if ('LOCATOR_NOT_INSTALLED' === e.code) continue
        throw e
    }
    for (const [e, t] of r.bin)
        A.set(e, [r, n.cS.fromPortablePath(n.y1.resolve(i, t))])
}
return A
}
async function O(e) {
    return await P(e.anchoredLocator, { project: e.project })
}
async function U(e, t, r, {
    cwd: A,
    project: o,
    stdin: i,
    stdout: a,
    stderr: c,
    nodeArgs: g = [],
},)
    const l = await P(e, { project: o }),
    u = l.get(t)
    if (!u)
        throw new Error('Binary not found (${t}) for ${Q.prettyLocator(o.configuration,
            e,
        })',
    )
}
```
return await s.xfs.mktempPromise(async (e) => {
    const [, t] = u,
    h = await b({ project: o, binFolder: e })
    let p
    await Promise.all(
        Array.from(l, ([e, [, t]]) =>
            D(h.BERRY_BIN_FOLDER, (0, n.Zu)(e), process.execPath, [t]),
        ),
    )
    try {
        p = await y.pipevp(process.execPath, [...g, t, ...r], {
            cwd: A,
            env: h,
            stdin: i,
            stdout: a,
            stderr: c,
        })
    } finally {
        await s.xfs.removePromise(h.BERRY_BIN_FOLDER)
    }
    return p.code
})
async function T(e, t, r, { cwd: A, stdin: n, stdout: o, stderr: i }) {
    return await U(e.anchoredLocator, t, r, {
        project: e.project,
        cwd: A,
        stdin: n,
        stdout: o,
        stderr: i,
    })
}
36545: (e, t, r) => {
    'use strict'
    r.r(t),
    r.d(t, { satisfiesWithPrereleases: () => o, validRange: () => s })
    var A = r(53887),
    n = r.n(A)
    function o(e, t, r = !1) {
        let A, o
        try {
            A = new (n().Range)(t, { includePrerelease: !0, loose: r })
        } catch (e) {
            return !1
        }
        if (!e) return !1
    }
try {
  (o = new (n().SemVer)(e, A)), o.prerelease && (o.prerelease = [])
} catch (e) {
  return !1
}

return A.set.some((e) => {
  for (const t of e) t.semver.prerelease && (t.semver.prerelease = [])
  return e.every((e) => e.test(o))
});

const i = new Map()
function s(e) {
  if (-1 !== e.indexOf(':')) return null
  let t = i.get(e)
  if (void 0 !== t) return t
  try {
    t = new (n().Range)(e)
  } catch (e) {
    t = null
  }
  return i.set(e, t, t)
}

54143: (e, t, r) => {
  'use strict'
  r.r(t),
  r.d(t, {
    makeIdent: () => u,
    makeDescriptor: () => h,
    makeLocator: () => p,
    convertToIdent: () => d,
    convertDescriptorToLocator: () => C,
    convertLocatorToDescriptor: () => f,
    convertPackageToLocator: () => I,
    renamePackage: () => E,
    copyPackage: () => B,
    virtualizeDescriptor: () => y,
    virtualizePackage: () => m,
    isVirtualDescriptor: () => w,
    isVirtualLocator: () => Q,
    devirtualizeDescriptor: () => D,
    devirtualizeLocator: () => b,
    bindDescriptor: () => v,
    bindLocator: () => S,
    areIdentsEqual: () => k,
    areDescriptorsEqual: () => N,
    areLocatorsEqual: () => F,
    areVirtualPackagesEquivalent: () => K,
  })
parseIdent: () => M,
tryParseIdent: () => R,
parsedescriptor: () => x,
tryParseDescriptor: () => L,
parseLocator: () => P,
tryParseLocator: () => O,
parseRange: () => U,
parseFileStyleRange: () => T,
makeRange: () => Y,
convertToManifestRange: () => G,
requirableIdent: () => H,
stringifyIdent: () => J,
stringifyDescriptor: () => q,
stringifyLocator: () => z,
slugifyIdent: () => W,
slugifyLocator: () => X,
prettyIdent: () => V,
prettyRange: () => Z,
prettyDescriptor: () => $,
prettyReference: () => ee,
prettyLocator: () => te,
prettyLocatorNoColors: () => re,
sortDescriptors: () => Ae,
prettyWorkspace: () => ne,
prettyResolution: () => oe,
prettyDependent: () => ie,
getIdentVendorPath: () => se,
})
var A = r(46009),
n = r(71191),
o = r.n(n),
i = r(53887),
s = r.n(i),
a = r(71643),
c = r(20624),
g = r(73632),
l = r(54143)
function u(e, t) {
  if (null == e ? void 0 : e.startsWith("@"))
    throw new Error("Invalid scope: don't prefix it with '@'")
  return { identHash: c.makeHash(e, t), scope: e, name: t }
}
function h(e, t) {
  return {
    identHash: e.identHash,
    scope: e.scope,
    name: e.name,
    descriptorHash: c.makeHash(e.identHash, t),
  }
function p(e, t) {
    return {
        identHash: e.identHash,
        scope: e.scope,
        name: e.name,
        locatorHash: c.makeHash(e.identHash, t),
        reference: t,
    }
}

function d(e) {
    return { identHash: e.identHash, scope: e.scope, name: e.name }
}

function C(e) {
    return {
        identHash: e.identHash,
        scope: e.scope,
        name: e.name,
        locatorHash: e.descriptorHash,
        reference: e.range,
    }
}

function f(e) {
    return {
        identHash: e.identHash,
        scope: e.scope,
        name: e.name,
        descriptorHash: e.locatorHash,
        range: e.reference,
    }
}

function I(e) {
    return {
        identHash: e.identHash,
        scope: e.scope,
        name: e.name,
        locatorHash: e.locatorHash,
        reference: e.reference,
    }
}

function E(e, t) {
    return {
        identHash: t.identHash,
        scope: t.scope,
        name: t.name,
        locatorHash: t.locatorHash,
    }
}
reference: t.reference,
version: e.version,
languageName: e.languageName,
linkType: e.linkType,
dependencies: new Map(e.dependencies),
peerDependencies: new Map(e.peerDependencies),
dependenciesMeta: new Map(e.dependenciesMeta),
peerDependenciesMeta: new Map(e.peerDependenciesMeta),
bin: new Map(e.bin),
}
}
}
function B(e) {
  return E(e, e)
}
function y(e, t) {
  if (t.includes('#')) throw new Error('Invalid entropy')
  return h(e, `virtual:$t#${e.range}`)
}
function m(e, t) {
  if (t.includes('#')) throw new Error('Invalid entropy')
  return E(e, p(e, `virtual:$t#${e.reference}`))
}
function w(e) {
  return e.range.startsWith('virtual:')
}
function Q(e) {
  return e.reference.startsWith('virtual:')
}
function D(e) {
  if (!w(e)) throw new Error('Not a virtual descriptor')
  return h(e, e.range.replace(/[^#]*#/, ''))
}
function b(e) {
  if (!Q(e)) throw new Error('Not a virtual descriptor')
  return p(e, e.reference.replace(/[^#]*#/, ''))
}
function v(e, t) {
  return e.range.includes(':')
    ? e
    : h(e, `{e.range}::{o().stringify(t)}`)
}
function S(e, t) {
  return e.reference.includes(':')
    ? e
    : p(e, `{e.reference}::{o().stringify(t)}`)
}
function k(e, t) {
  return e.identHash === t.identHash
function N(e, t) {
    return e.descriptorHash === t.descriptorHash
}

function F(e, t) {
    return e.locatorHash === t.locatorHash
}

function K(e, t) {
    if (!Q(e)) throw new Error('Invalid package type')
    if (!Q(t)) throw new Error('Invalid package type')
    if (!k(e, t)) return !1
    if (e.dependencies.size !== t.dependencies.size) return !1
    for (const r of e.dependencies.values()) {
        const e = t.dependencies.get(r.identHash)
        if (!e) return !1
        if (!N(r, e)) return !1
    }
    return !0
}

function M(e) {
    const t = R(e)
    if (!t) throw new Error(`Invalid ident (${e})`)
    return t
}

function R(e) {
    const t = e.match(/^(?:@([^/]+?)/)?([^/]+)$/)
    if (!t) return null
    const [, r, A] = t
    return u(void 0 !== r ? r : null, A)
}

function x(e, t = !1) {
    const r = L(e, t)
    if (!r) throw new Error(`Invalid descriptor (${e})`)
    return r
}

function L(e, t = !1) {
    const r = t
    if (!r) throw new Error(`Invalid locator (${e})`)
    const t = e.match(/^(?:@([^/]+?)/)?([^/]+)?([@(.+))$/)
    if (!t) return null
    const [, A, n, o] = t
    if ('unknown' === o) throw new Error(`Invalid range (${e})`)
    const i = void 0 !== o ? o : 'unknown'
    return h(u(void 0 !== A ? A : null, n), i)
}

function P(e, t = !1) {
    const r = O(e, t)
    if (!r) throw new Error(`Invalid locator (${e})`)
    const t = e.match(/^(?:@([^/]+?)/)?([^/]+)?([@(.+))$/)
    if (!t) return null
    const [, A, n, o] = t
    if ('unknown' === o) throw new Error(`Invalid range (${e})`)
    const i = void 0 !== o ? o : 'unknown'
    return h(u(void 0 !== A ? A : null, n), i)
function O(e, t = !1) {
    const r = t
    ? e.match(/^(?:@([^/]+?)/)?([^/]+?)@(.+)$/)  
    : e.match(/^(?:@([^/]+?)/)?([^/]+?)@(.+)?$/)
    if (!r) return null
    const [A, n, o] = r
    if (unknown' === o) throw new Error('Invalid reference (${e})
    const i = void 0 !== o ? o : 'unknown'
    return p(u(void 0 !== A ? A : null, n), i)
}

function U(e, t) {
    const r = e.match(
        /^([^#::]*:)?((?:(?!::)[^#])*)(?:#((?:(?!::).)*))?(?:::(.*))?$/,
    )
    if (null === r) throw new Error('Invalid range (${e})
    if (string’ == typeof (null == t ? void 0 : t.requireProtocol) &&
        A !== t.requireProtocol)
        throw new Error('Invalid protocol (${A})
    if ((null == t ? void 0 : t.requireProtocol) && null === A)
        throw new Error('Missing protocol (${A})
    const n = void 0 !== r[3] ? decodeURIComponent(r[2]) : null
    if ((null == t ? void 0 : t.requireSource) && null === n)
        throw new Error('Missing source (${e})
    const i =
        void 0 !== r[3]
        ? decodeURIComponent(r[3])
        : decodeURIComponent(r[2])
    return {
        protocol: A,
        source: n,
        selector: (null == t ? void 0 : t.parseSelector) ? o().parse(i) : i,
        params: void 0 !== r[4] ? o().parse(r[4]) : null,
    }
}

function T(e, { protocol: t }) {
    const { selector: r, params: A } = U(e, {
        requireProtocol: t,
        requireBindings: !0,
    })
    if (string’ != typeof A.locator)
        throw new Error('Assertion failed: Invalid bindings for '+ e)
    return {
        parentLocator: P(A.locator, !0), path: r
    }
}
function j(e) {
    return (e = (e = e.replace(/%/g, '%25')).replace(/:/g, '%3A'),
            e).replace(/#/g, '%23'))
}
function Y({ protocol: e, source: t, selector: r, params: A }) {
    let n = ''
    return (null !== e && (n += '' + e),
            null !== t && (n += j(t) + '#'),
            (n += j(r)),
            (function (e) {
                return null !== e && Object.entries(e).length > 0
            })(A) && (n += '::' + o().stringify(A)),
            n)
}
function G(e) {
    const { params: t, protocol: r, source: A, selector: n } = U(e)
    for (const e in t) e.startsWith('__') && delete t[e]
    return Y({ protocol: r, source: A, params: t, selector: n })
}
function H(e) {
    return e.scope ? `@${e.scope}/${e.name}` : '' + e.name
}
function J(e) {
    return e.scope ? `@${e.scope}/${e.name}` : '' + e.name
}
function q(e) {
    return e.scope
           ? `@${e.scope}/${e.name}@${e.range}`
           : `${e.name}@${e.range}`
}
function z(e) {
    return e.scope
           ? `@${e.scope}/${e.name}@${e.reference}`
           : `${e.name}@${e.reference}`
}
function W(e) {
    return null !== e.scope ? `@${e.scope}-${e.name}` : e.name
}
function X(e) {
    const { protocol: t, selector: r } = U(e.reference),
    n = null !== t ? t.replace(/$/g, '') : 'exotic',
    o = s().valid(r),
    i = null !== o ? `${o}-${r}` : '',
    a = (e.scope, `${W(e)}-${i}-${e.locatorHash.slice(0, 10)}`)}
return (0, A.Zu)(a)
}
function V(e, t) {
return t.scope
? `${a.pretty(e, `@${t.scope}/`, a.Type.SCOPE)}${a.pretty(
e,
t.name,
a.Type.NAME,
)}`
: '' + a.pretty(e, t.name, a.Type.NAME)
}
function _(e) {
if (e.startsWith('virtual:')) {
return `${_(e.substr(e.indexOf('#') + 1))} [${e.substr(
'virtual:'.length,
5,
)}]`
}
return e.replace(/\?.*/, '?[...]')
}
function Z(e, t) {
return '' + a.pretty(e, _(t), a.Type.RANGE)
}
function $(e, t) {
return `${V(e, t)}${a.pretty(e, '@', a.Type.RANGE)}${Z(e, t.range)}`
}
function ee(e, t) {
return '' + a.pretty(e, _(t), a.Type.REFERENCE)
}
function te(e, t) {
return `${V(e, t)}${a.pretty(e, '@', a.Type.REFERENCE)}${ee(
e,
t.reference,
)}`
}
function re(e) {
return `${J(e)}@${_(e.reference)}`
}
function Ae(e) {
return g.sortMap(e, [(e) => J(e), (e) => e.range])
}
function ne(e, t) {
return V(e, t.locator)
}
function oe(e, t, r) {
const A = w(t) ? D(t) : t
return null === r
? `${l.prettyDescriptor(e, A)} ${a.mark(e).Cross}`

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const u = (0, c.promisify)(l().gunzip)

async function h(e, t = new A.S(), prefixPath: r = n.LZ.root, compressionLevel: a = !1, inMemory: c = !1) {
  let l = new o.d(null, { libzip: g, level: a })
  if (c) l = new o.d(null, { libzip: g, level: a })
  else {
    const e = await i.xfs.mktempPromise(),
      t = n.y1.join(e, 'archive.zip')
    l = new o.d(t, { create: !0, libzip: g, level: a })
  }
  return null === r
    ? '' + te(e, t)
    : `${te(e, t)} (via ${l.prettyRange(e, r.range)})`
}

function ie(e, t, r) {
  return null === r
    ? '' + te(e, t)
    : `${te(e, t)} (via ${l.prettyRange(e, r.range)})`
}

function se(e) {
  return 'node_modules/' + H(e)
}

72785: (e, t, r) => {
  'use strict'
  r.r(t),
  r.d(t, {
    makeArchiveFromDirectory: () => h,
    convertToZip: () => p,
    extractArchiveTo: () => d,
  })
}

var A = r(78420),
  n = r(46009),
  o = r(90739),
  i = r(43896),
  s = r(65281),
  a = r(59938),
  c = r(31669),
  g = r(78761),
  l = r.n(g)

const u = (0, c.promisify)(l().gunzip)
const u = n.y1.resolve(n.LZ.root, r)
return (  
    await l.copyPromise(u, e, {
        baseFs: t,
        stableTime: !0,
        stableSort: !0,
    } ),
    1
)
}

async function p(e, t) {
    const r = await i.xfs.mktempPromise(),
        A = n.y1.join(r, 'archive.zip'),
        { compressionLevel: a, ...c } = t
    return await d(e,
        new o.d(A, {
            create: !0,
            libzip: await (0, s.getLibzipPromise)(),
            level: a,
        }),
        c,
    )
}

async function d(e, t, { stripComponents: r = 0, prefixPath: A = n.LZ.dot } = {} ) {
    const o = a.extract()
    o.on('entry', (e, o, i) => {
        var s, a
        if (  
            function (e) {
                if ('/' === e.name[0]) return !0
                const t = e.name.split(/\//g)
                return !!t.some((e) => '..' === e) || t.length <= r
            })(e)
        )
        return void i()
    const c = n.y1
        .normalize(n.cS.toPortablePath(e.name))
        .replace(/\S/,'')
        .split(/\//g)
    if (c.length <= r) return o.resume(), void i()
    const g = c.slice(r).join('/'),
    l = n.y1.join(A, g)
    let u = 420
switch ( ('directory' !== e.type &&
0 == (73 & (null !== (s = e.mode) && void 0 !== s ? s : 0)))) ||
(u |= 73),
e.type)
)
{
case 'directory':
t.mkdirpSync(n.y1.dirname(l), {  
chmod: 493,
utimes: [315532800, 315532800],
}),
t.mkdirSync(l),
t.chmodSync(l, u),
t.utimesSync(l, 315532800, 315532800),
i()
break
case 'file':
{
t.mkdirpSync(n.y1.dirname(l), {  
chmod: 493,
utimes: [315532800, 315532800],
})
const e = []
o.on('data', (t) => e.push(t)),
o.on('end', () => {
  t.writeFileSync(l, Buffer.concat(e)),
t.chmodSync(l, u),
t.utimesSync(l, 315532800, 315532800),
i()
})
break
case 'symlink':
t.mkdirpSync(n.y1.dirname(l), {  
chmod: 493,
utimes: [315532800, 315532800],
}),
t.symlinkSync(e.linkname, l),
null === (a = t.utimesSync) ||
void 0 === a ||
a.call(t, l, 315532800, 315532800),
i()
break
default:
o.resume(), i()
}
))
const i = await u(e)
```javascript
return await new Promise((e, r) => {
  o.on('error', (e) => {
    r(e)
  }),
  o.on('finish', () => {
    e(t)
  }),
  o.end(i)
})
},
85875: (e, t, r) => {
  'use strict'
  r.rr(t),
  r.d(t, {
    treeNodeToTreeify: () => o,
    treeNodeToJson: () => i,
    emitList: () => s,
    emitTree: () => a,
  })
  var A = r(94682),
  n = r(71643)
  function o(e, { configuration: t }) {
    const r = {},
    A = (e, r) => {
      const o = Array.isArray(e) ? e.entries() : Object.entries(e)
      for (const [e, { label: i, value: s, children: a }] of o) {
        const o = []
        void 0 !== i && o.push(n.applyStyle(t, i, n.Style.BOLD)),
        void 0 !== s && o.push(n.pretty(t, s[0], s[1])),
        0 === o.length &&
        o.push(n.applyStyle(t, " + e, n.Style.BOLD))
        const c = (r[o.join(': ')] = {})
        void 0 !== a && A(a, c)
      }
    }
    if (void 0 === e.children)
      throw new Error('The root node must only contain children')
    return A(e.children, r, t)
  }
  function i(e) {
    const t = (e) => {
      var r
      if (void 0 === e.children) {
        if (void 0 !== e.value)
          throw new Error('Assertion failed: Expected a value to be set if the children are missing',
      )
    }
```

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return n.json(e.value[0], e.value[1])
}
const A = Array.isArray(e.children)
? e.children.entries()
: Object.entries(
  null !== (r = e.children) && void 0 !== r ? r : {},
),
o = Array.isArray(e.children) ? [] : {}
for (const [e, r] of A) o[e] = t(r)
return void 0 === e.value
? o
: { value: n.json(e.value[0], e.value[1]), children: o }
}
return t(e)
}
function s(e, { configuration: t, stdout: r, json: A }) {
a(
  { children: e.map((e) => ({ value: e })) },
  { configuration: t, stdout: r, json: A },
)
}
function a(e, { configuration: t, stdout: r, json: n, separators: s = 0 }) {
var a
if (n) {
  const t = Array.isArray(e.children)
  ? e.children.values()
  : Object.values(
    null !== (a = e.children) && void 0 !== a ? a : {},
  )
  for (const e of t) r.write(JSON.stringify(i(e)) + '
')
  return
}
let c = (0, A.asTree)(o(e, { configuration: t })), !1, !1)
if (
  (s >= 1 &&
  (c = c.replace(/^\[\].{2}\[\].{2}\[\]^\n+\n$/gm, '\n$1'),
  s >= 2)
)
  for (let e = 0; e < 2; ++e)
  c = c
  .replace(/\^[\[].\[.\[.\]^\n+\n$/gm, '\n$1$3 \n$2'),
  s >= 2)
)
  for (let e = 0; e < 2; ++e)
  c = c
  .replace(/\^[\].\[.\]^\n+\n$/gm, '\n$1$3',
  'S\n$2'),
  s >= 2)
)
  .replace(/\^[\].$/m, '')
if (s >= 3)
    throw new Error('Only the first two levels are accepted by treeUtils.emitTree',
                     )
    r.write(c)
}

32485: (e, t, r) => {
    'use strict'
    var A, n, o
    r.d(t, { Un: () => A, HN: () => n, _u: () => o } ),
    (function (e) {
       :(e.HARD = 'HARD'), (e.SOFT = 'SOFT')
    })(A || (A = {})),
    (function (e) {
       :(e.Dependency = 'Dependency'),
       (e.PeerDependency = 'PeerDependency'),
       (e.PeerDependencyMeta = 'PeerDependencyMeta')
    })(n || (n = {})),
    (function (e) {
       :(e.Inactive = 'inactive'),
       (e.Redundant = 'redundant'),
       (e.Active = 'active')
    })(o || (o = {}))
},
14626: (e, t, r) => {
    'use strict'
    r.d(t, { K: () => n })
    var A = r(42096)
    class n extends A.p {
        constructor(e, { baseFs: t, pathUtils: r } ) {
            super(r), (this.target = e), (this.baseFs = t)
        }
        getRealPath() {
            return this.target
        }
        getBaseFs() {
            return this.baseFs
        }
        mapFromBase(e) {
            return e
        }
        mapToBase(e) {
            return e
        }
    },
75448: (e, t, r) => {

'use strict'
var A = r(78420),
n = r(42096),
o = r(46009)
class i extends n.p {
    constructor(e, { baseFs: t = new A.S() } = {}) {
        super(o.y1),
        (this.target = this.pathUtils.normalize(e)),
        (this.baseFs = t)
    }
    getRealPath() {
        return this.pathUtils.resolve(
            this.baseFs.getRealPath(),
            this.target,
        )
    }
    resolve(e) {
        return this.pathUtils.isAbsolute(e)
            ? o.y1.normalize(e)
            : this.baseFs.resolve(o.y1.join(this.target, e))
    }
    mapFromBase(e) {
        return e
    }
    mapToBase(e) {
        return this.pathUtils.isAbsolute(e)
            ? e
            : this.pathUtils.join(this.target, e)
    }
}
5944: (e, t, r) => {
'use strict'
var A = r(12087),
n = r(35747),
o = r.n(n),
i = r(46009)
const s = new Date(3155328e5)
async function a(e, t, r, A, n, c, g, l) {
    var u, h
    const p = await (async function (e, t) {
        try {
            return await e.lstatPromise(t)
        } catch (e) {
            return null
        }
    })(e, t)
}
d = await c.lstatPromise(g).
C = IstableTime ? { mtime: s, atime: s } : d
let f
switch (!0) {
case d.isDirectory():
f = await (async function (e, t, r, A, n, o, i, s, c, g) {
  if (null !== o && o.isDirectory) {
    if (!g.overwrite) return !1
    e.push(async () => A.removePromise(n), (o = null))
  }
  let l = !1
  null === o &&
  (e.push(async () => A.mkdirPromise(n, { mode: c.mode })),
  (l = !0))
  const u = await i.readdirPromise(s)
  if (g.stableSort)
    for (const o of u.sort())
      (await a(
        e,
        t,
        r,
        A,
        A.pathUtils.join(n, o),
        i,
        i.pathUtils.join(s, o),
        g,
      ) && (l = !0))
  else {
    (await Promise.all(
      u.map(async (o) => {
        await a(
          e,
          t,
          r,
          A,
          A.pathUtils.join(n, o),
          i,
          i.pathUtils.join(s, o),
        )
      })).some((e) => e) && (l = !0)
    }
  return l
})(e, t, r, A, n, p, c, g, d, l)
break
case d.isFile():
f = await (async function (e, t, r, A, n, i, s, a, c, g) {
    if (null !== i) {
        if (!g.overwrite) return !1
        e.push(async () => A.removePromise(n), (i = null))
    }
    const l =
    A === s
    ? async () =>
        A.copyFilePromise(a, n, o().constants.COPYFILE_FICLONE)
    : async () =>
        A.writeFilePromise(n, await s.readFilePromise(a))
    return e.push(async () => l()), !0
})(e, 0, 0, A, n, p, c, g, 0, l)
break
case d.isSymbolicLink():
f = await (async function (e, t, r, A, n, o, s, a, c, g) {
    if (null !== o) {
        if (!g.overwrite) return !1
        e.push(async () => A.removePromise(n), (o = null))
    }
    return (
        e.push(async () => {
            await A.symlinkPromise(
                (0, i.CI)(A.pathUtils, await s.readlinkPromise(a)),
                n,
            ),
        },
    )
})(e, 0, 0, A, n, p, c, g, 0, l)
break
default:
    throw new Error(`Unsupported file type (${d.mode})`)}
}
return (f ||
    (null === (u = null == p ? void 0 : p.mtime) || void 0 === u
    ? void 0
    : u.getTime()) !== C.mtime.getTime() ||
    (null === (h = null == p ? void 0 : p.atime) || void 0 === h
    ? void 0
    : h.getTime()) !== C.atime.getTime()) &&
    (t.push(() => r(n, C.atime, C.mtime)), (f = !0)),
    (null !== p && (511 & p.mode) == (511 & d.mode)) ||
    (t.push(() => A.chmodPromise(n, 511 & d.mode)), (f = !0)),
    f
class c {
    constructor(e) {
        this.pathUtils = e
    }

    async *genTraversePromise(e, { stableSort: t = !1 } = {}) {
        const r = [e]
        for (; r.length > 0; ) {
            const e = r.shift()
            if ((await this.lstatPromise(e)).isDirectory()) {
                const A = await this.readdirPromise(e)
                if (!t) throw new Error('Not supported')
                for (const t of A.sort()) r.push(this.pathUtils.join(e, t))
            } else yield e
        }
    }

    async removePromise(e, { recursive: t = !0, maxRetries: r = 5 } = {}) {
        let A
        try {
            A = await this.lstatPromise(e)
        } catch (e) {
            if ('ENOENT' === e.code) return
            throw e
        }
        if (A.isDirectory()) {
            if (t)
                for (const t of await this.readdirPromise(e))
                    await this.removePromise(this.pathUtils.resolve(e, t))
            let A = 0
            do {
                try {
                    await this.rmdirPromise(e)
                    break
                } catch (e) {
                    if ('EBUSY' === e.code || 'ENOTEMPTY' === e.code) {
                        if (0 === r) break
                        await new Promise((e) => setTimeout(e, 100 * A))
                        continue
                    } throw e
                }
                (A++ < r)
            } while (A++)
        } else await this.unlinkPromise(e)
    }
}
removeSync(e, { recursive: t = !0 } = {}) {
  let r
  try {
    r = this.lstatSync(e)
  } catch (e) {
    if ('ENOENT' === e.code) return
    throw e
  }
  if (r.isDirectory()) {
    if (t)
      for (const t of this.readdirSync(e))
        this.removeSync(this.pathUtils.resolve(e, t))
    this.rmdirSync(e)
  } else this.unlinkSync(e)
}
async mkdirpPromise(e, { chmod: t, utimes: r } = {}) {
  if ((e = this.resolve(e)) === this.pathUtils.dirname(e)) return
  const A = e.split(this.pathUtils.sep)
  for (let e = 2; e <= A.length; ++e) {
    const n = A.slice(0, e).join(this.pathUtils.sep)
    if (!this.existsSync(n)) {
      try {
        await this.mkdirPromise(n)
      } catch (e) {
        if ('EEXIST' === e.code) continue
        throw e
      }
    }
    if ((null !== t && (await this.chmodPromise(n, t)), null !== r))
      await this.utimesPromise(n, r[0], r[1])
    else {
      const e = await this.statPromise(this.pathUtils.dirname(n))
      await this.utimesPromise(n, e.atime, e.mtime)
    }
  }
}
mkdirpSync(e, { chmod: t, utimes: r } = {}) {
  if ((e = this.resolve(e)) === this.pathUtils.dirname(e)) return
  const A = e.split(this.pathUtils.sep)
  for (let e = 2; e <= A.length; ++e) {
    const n = A.slice(0, e).join(this.pathUtils.sep)
    if (!this.existsSync(n)) {
      try {
        this.mkdirSync(n)
      } catch (e) {
        if ('EEXIST' === e.code) continue
        throw e
      }
    }
    }
if ((null != t && this.chmodSync(n, t), null != r))
    this.utimesSync(n, r[0], r[1])
else {
    const e = this.statSync(this.pathUtils.dirname(n))
    this.utimesSync(n, e.ctime, e.mtime)
}
}
}
}
}
async copyPromise(
e,
t,
{
    baseFs: r = this,
    overwrite: A = !0,
    stableSort: n = !1,
    stableTime: o = !1,
} = {})
{
    return await (async function (e, t, r, A, n) {
        const o = e.pathUtils.normalize(t),
        i = r.pathUtils.normalize(A),
        s = [],
        c = []
        await e.mkdirPromise(e.pathUtils.dirname(t), { recursive: !0 })
        const g =
            'function' == typeof e.lutimesPromise
            ? e.lutimesPromise.bind(e)
            : e.utimesPromise.bind(e)
        await a(s, c, g, e, o, r, i, n)
        for (const e of s) await e()
        await Promise.all(c.map((e) => e()))
    })(this, e, r, t, { overwrite: A, stableSort: n, stableTime: o })
}
copySync(e, t, { baseFs: r = this, overwrite: A = !0 } = {})
{
    const n = r.lstatSync(t),
    o = this.existsSync(e)
    if (n.isDirectory()) {
        this.mkdirpSync(e)
        const n = r.readdirSync(t)
        for (const o of n) this.copySync(
            this.pathUtils.join(e, o),
            r.pathUtils.join(t, o),
            { baseFs: r, overwrite: A },
        )
    } else if (n.isFile()) {
        if (!o || A) {
const A = r.readFileSync(t)
this.writeFileSync(e, A)
}
}
else {
if (!n.isDirectory())
throw new Error(
`Unknown file type (file: ${t}, mode: 0o${n.mode.toString(8)}
.padStart(6, '0'))`,
)
if (!o || A) {
  o && this.removeSync(e)
  const A = r.readlinkSync(t)
  this.symlinkSync((0, i.CI)(this.pathUtils, A), e)
}
}
const s = 511 & n.mode
this.chmodSync(e, s)
}
async changeFilePromise(e, t, r = {}) {
  return Buffer.isBuffer(t)
    ? this.changeFileBufferPromise(e, t)
    : this.changeFileTextPromise(e, t, r)
}
async changeFileBufferPromise(e, t) {
  let r = Buffer.alloc(0)
  try {
    r = await this.readFilePromise(e)
  } catch (e) { }
  0 !== Buffer.compare(r, t) && (await this.writeFilePromise(e, t))
}
async changeFileTextPromise(e, t, { automaticNewlines: r } = {}) {
  let A = 
  try {
    A = await this.readFilePromise(e, 'utf8')
  } catch (e) { }
  const n = r ? l(A, t) : t
  A !== n && (await this.writeFilePromise(e, n))
}
changeFileSync(e, t, r = {}) {
  return Buffer.isBuffer(t)
    ? this.changeFileBufferSync(e, t)
    : this.changeFileTextSync(e, t, r)
}
changeFileBufferSync(e, t) {
  let r = Buffer.alloc(0)
  try {
    return Buffer.isBuffer(t)
      ? this.changeFileBufferSync(e, t)
      : this.changeFileTextSync(e, t, r)
  }
  changeFileBufferSync(e, t) {
    let r = Buffer.alloc(0)
    try {
      return Buffer.isBuffer(t)
        ? this.changeFileBufferSync(e, t)
        : this.changeFileTextSync(e, t, r)
    }
```javascript
r = this.readFileSync(e)
} catch (e) {}
0 !== Buffer.compare(r, t) && this.writeFileSync(e, t)
}
changeFileTextSync(e, t, { automaticNewlines: r = !1 } = {}) {
  let A = "
  try {
    A = this.readFileSync(e, 'utf8')
  } catch (e) {}
  const n = r ? l(A, t) : t
  A !== n && this.writeFileSync(e, n)
}
async movePromise(e, t) {
  try {
    await this.renamePromise(e, t)
  } catch (r) {
    if ('EXDEV' !== r.code) throw r
    await this.copyPromise(t, e), await this.removePromise(e)
  }
}
moveSync(e, t) {
  try {
    this.renameSync(e, t)
  } catch (r) {
    if ('EXDEV' !== r.code) throw r
    this.copySync(t, e), this.removeSync(e)
  }
}
async lockPromise(e, t) {
  const r = e + '.flock',
    A = Date.now()
  let n = null
  const o = async () => {
    let e
    try {
      ;[e] = await this.readJsonPromise(r)
    } catch (e) {
      return Date.now() - A < 500
    }
    try {
      return process.kill(e, 0), !0
    } catch (e) {
      return !1
    }
  }
  for (; null !== n; )
    try {
      n = await this.openPromise(r, 'wx')
    }
```
```javascript
try {
    return await t()
} finally {
    try {
        await this.closePromise(n), await this.unlinkPromise(r)
    } catch (e) {}
}

async readJsonPromise(e) {
    const t = await this.readFilePromise(e, 'utf8')
    try {
        return JSON.parse(t)
    } catch (t) {
        throw ((t.message += ` (in ${e})`), t)
    }
}

readJsonSync(e) {
    const t = this.readFileSync(e, 'utf8')
    try {
        return JSON.parse(t)
    } catch (t) {
        throw ((t.message += ` (in ${e})`), t)
    }
}

async writeJsonPromise(e, t) {
    return await this.writeFilePromise(
        e,
        JSON.stringify(t, null, 2) + '
',
    )
}

writeJsonSync(e, t) {
    return this.writeFileSync(e, JSON.stringify(t, null, 2) + '
')
}

async preserveTimePromise(e, t) {
```

---

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const r = await this.lstatPromise(e),
A = await t()
void 0 !== A & & (e = A),
this.lutimesPromise
? await this.lutimesPromise(e, r.atime, r.mtime)
: r.isSymbolicLink() ||
( await this.utimesPromise(e, r.atime, r.mtime) )
}
async preserveTimeSync(e,t) {
const r = this.lstatSync(e),
A = t()
void 0 !== A & & (e = A),
this.lutimesSync
? this.lutimesSync(e, r.atime, r.mtime)
: r.isSymbolicLink() || this.utimesSync(e, r.atime, r.mtime)
}

c.DEFAULT_TIME = 315532800
class g extends c {
constructor() {
super(i.y1)
}
}
function l(e,t) {
return t.replace(
/\r?\n/g,
(function(e) {
const t = e.match(/\r?\n/g)
if (null === t) return A.EOL
const r = t.filter((e) => `\r\n` === e).length
return r > t.length - r ? `\r\n` : `\n`
})(e),
)
}
}
10489: (e, t, r) => {
'use strict'

r.d(t, { n: () => s })
var A = r(78420),
    n = r(42096),
o = r(46009)
const i = o.LZ.root
class s extends n.p {
constructor(e, { baseFs: t = new A.S() } = {}) {
super(o.y1),
    (this.target = this.pathUtils.resolve(o.LZ.root, e)),
    (this.baseFs = t)
}
getRealPath() {
return this.pathUtils.resolve(
this.baseFs.getRealPath(),
this.pathUtils.relative(o.LZ.root, this.target),
)
}
getTarget() {
return this.target
}
getBaseFs() {
return this.baseFs
}
mapToBase(e) {
const t = this.pathUtils.normalize(e)
if (this.pathUtils.isAbsolute(e))
return this.pathUtils.resolve(
this.target,
this.pathUtils.relative(i, e),
)
if (t.match(/^\.\.\/?/))
throw new Error(
`Resolving this path (${e}) would escape the jail`,
)
return this.pathUtils.resolve(this.target, e)
}
mapFromBase(e) {
return this.pathUtils.resolve(
i,
this.pathUtils.relative(this.target, e),
)
}
}
},
15037: (e, t, r) => {
'use strict'
r.d(t, { v: () => n })
var A = r(42096)
class n extends A.p {
constructor(e, t) {
super(t), (this.instance = null), (this.factory = e)
}
get baseFs() {
return (
this.instance || (this.instance = this.factory()), this.instance
)
}
set baseFs(e) {
this.instance = e

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```javascript
mapFromBase(e) {
  return e
}
mapToBase(e) {
  return e
}

78420: (e, t, r) => {
  'use strict'
  r.d(t, { S: () => a })
  var A = r(35747),
      n = r.n(A),
      o = r(5944),
      i = r(26984),
      s = r(46009)
  class a extends o.fS {
    constructor(e = n()) {
      super(),
      (this.realFs = e),
      void 0 !== this.realFs.lutimes &&
      ((this.lutimesPromise = this.lutimesPromiseImpl),
       (this.lutimesSync = this.lutimesSyncImpl))
    }
    getExtractHint() {
      return !1
    }
    getRealPath() {
      return s.LZ.root
    }
    resolve(e) {
      return s.y1.resolve(e)
    }
    async openPromise(e, t, r) {
      return await new Promise((A, n) => {
        this.realFs.open(
          s.cS.fromPortablePath(e),
          t,
          r,
          this.makeCallback(A, n),
        )
      })
    }
    openSync(e, t, r) {
      return this.realFs.openSync(s.cS.fromPortablePath(e), t, r)
    }
    async opendirPromise(e, t) {
```
return await new Promise((r, A) => {
  void 0 !== t
  ? this.realFs.opendir(
    s.cS.fromPortablePath(e),
    t,
    this.makeCallback(r, A),
  ) : this.realFs.opendir(
    s.cS.fromPortablePath(e),
    this.makeCallback(r, A),
  )
}).then((t) =>
  Object.defineProperty(t, 'path', {
    value: e,
    configurable: '0,'
  }),
)

opendirSync(e, t) {
  const r =
    void 0 !== t
    ? this.realFs.opendirSync(s.cS.fromPortablePath(e), t)
    : this.realFs.opendirSync(s.cS.fromPortablePath(e))
  return Object.defineProperty(r, 'path', {
    value: e,
    configurable: '0,'
  }),
  
}

async readPromise(e, t, r = 0, A = 0, n = -1) {
  return await new Promise((o, i) => {
    this.realFs.read(e, t, r, A, n, (e, t) => {
      e ? i(e) : o(t)
    })
  })

}

readSync(e, t, r, A, n) {
  return this.realFs.readSync(e, t, r, A, n)
}

async writePromise(e, t, r, A, n) {
  return await new Promise((o, i) =>
    'string' == typeof t
    ? this.realFs.write(e, t, r, this.makeCallback(o, i))
    : this.realFs.write(e, t, r, A, n, this.makeCallback(o, i)),
  )

}

writeSync(e, t, r, A, n) {
return 'string' === typeof t
  ? this.realFs.writeSync(e, t, r)
  : this.realFs.writeSync(e, t, r, A, n)
}
async closePromise(e) {
  await new Promise((t, r) => {
    this.realFs.close(e, this.makeCallback(t, r))
  })
}
closeSync(e) {
  this.realFs.closeSync(e)
}
createReadStream(e, t) {
  const r = null !== e ? s.cS.fromPortablePath(e) : e
  return this.realFs.createReadStream(r, t)
}
createWriteStream(e, t) {
  const r = null !== e ? s.cS.fromPortablePath(e) : e
  return this.realFs.createWriteStream(r, t)
}
async realpathPromise(e) {
  return await new Promise((t, r) => {
    this.realFs.realpath(s.cS.fromPortablePath(e), {}, this.makeCallback(t, r))
  }).then((e) => s.cS.toPortablePath(e))
}
realpathSync(e) {
  return s.cS.toPortablePath(this.realFs.realpathSync(s.cS.fromPortablePath(e), {}))
}
async existsPromise(e) {
  return await new Promise((r, A) => {
    this.realFs.exists(s.cS.fromPortablePath(e), t, this.makeCallback(r, A),
  })
}
accessSync(e, t) {
  return this.realFs.accessSync(s.cS.fromPortablePath(e), t)
}
async accessPromise(e, t) {
  return await new Promise((r, A) => {
    this.realFs.access(s.cS.fromPortablePath(e),
    t, this.makeCallback(r, A),
  })
}
existsSync(e) {
  return this.realFs.existsSync(s.cS.fromPortablePath(e))
}

async statPromise(e) {
  return await new Promise((t, r) => {
    this.realFs.stat(
      s.cS.fromPortablePath(e),
      this.makeCallback(t, r),
    )
  })
}

statSync(e) {
  return this.realFs.statSync(s.cS.fromPortablePath(e))
}

async lstatPromise(e) {
  return await new Promise((t, r) => {
    this.realFs.lstat(
      s.cS.fromPortablePath(e),
      this.makeCallback(t, r),
    )
  })
}

lstatSync(e) {
  return this.realFs.lstatSync(s.cS.fromPortablePath(e))
}

async chmodPromise(e, t) {
  return await new Promise((r, A) => {
    this.realFs.chmod(
      s.cS.fromPortablePath(e),
      t,
      this.makeCallback(r, A),
    )
  })
}

chmodSync(e, t) {
  return this.realFs.chmodSync(s.cS.fromPortablePath(e), t)
}

async chownPromise(e, t, r) {
  return await new Promise((A, n) => {
    this.realFs.chown(
      s.cS.fromPortablePath(e),
      t,
      r,
      this.makeCallback(A, n),
    )
  })
}

chownSync(e, t, r) {
  return this.realFs.chownSync(s.cS.fromPortablePath(e), t, r)
}
chownSync(e, t, r) {
    return this.realFs.chownSync(s.cS.fromPortablePath(e), t, r)
}

async renamePromise(e, t) {
    return await new Promise((r, A) => {
        this.realFs.rename(
            s.cS.fromPortablePath(e),
            s.cS.fromPortablePath(t),
            this.makeCallback(r, A),
        )
    })
}

renameSync(e, t) {
    return this.realFs.renameSync(
        s.cS.fromPortablePath(e),
        s.cS.fromPortablePath(t),
    )
}

async copyFilePromise(e, t, r = 0) {
    return await new Promise((A, n) => {
        this.realFs.copyFile(
            s.cS.fromPortablePath(e),
            s.cS.fromPortablePath(t),
            r,
            this.makeCallback(A, n),
        )
    })
}

copyFileSync(e, t, r = 0) {
    return this.realFs.copyFileSync(
        s.cS.fromPortablePath(e),
        s.cS.fromPortablePath(t),
        r,
    )
}

async appendFilePromise(e, t, r) {
    return await new Promise((A, n) => {
        const o = 'string' === typeof e ? s.cS.fromPortablePath(e) : e
        r
            ? this.realFs.appendFile(o, t, r, this.makeCallback(A, n))
            : this.realFs.appendFile(o, t, this.makeCallback(A, n))
    })
}

appendFileSync(e, t, r) {
    const A = 'string' === typeof e ? s.cS.fromPortablePath(e) : e
    r
}
async writeFilePromise(e, t, r) {
  return await new Promise((A, n) => {
    const o = 'string' == typeof e ? s.cS.fromPortablePath(e) : e
    ? this.realFs.writeFile(o, t, r, this.makeCallback(A, n))
      : this.realFs.writeFile(o, t, this.makeCallback(A, n))
  })
}

writeFileSync(e, t, r) {
  const A = 'string' == typeof e ? s.cS.fromPortablePath(e) : e
  r
  ? this.realFs.writeFileSync(A, t, r)
    : this.realFs.writeFileSync(A, t)
}

async unlinkPromise(e) {
  return await new Promise((t, r) => {
    this.realFs.unlink(
      s.cS.fromPortablePath(e),
      this.makeCallback(t, r),
    )
  })
}

unlinkSync(e) {
  return this.realFs.unlinkSync(s.cS.fromPortablePath(e))
}

async utimesPromise(e, t, r) {
  return await new Promise((A, n) => {
    this.realFs.utimes(
      s.cS.fromPortablePath(e),
      t,
      r,
      this.makeCallback(A, n),
    )
  })
}

utimesSync(e, t, r) {
  this.realFs.utimesSync(s.cS.fromPortablePath(e), t, r)
}

async lutimesPromiseImpl(e, t, r) {
  const A = this.realFs.lutimes
  if (void 0 === A)
    throw (0, i.bk)('unavailable Node binding', 'lutimes "$e"')
  return await new Promise((n, o) => {
    A.call(
      this.realFs,
s.cS.fromPortablePath(e),
  t,
  r,
  this.makeCallback(n, o),
)
})
})
}
lutimesSyncImpl(e, t, r) {
  const A = this.realFs.lutimesSync
  if (void 0 === A)
    throw (0, i.bk)('unavailable Node binding', `lutimes '${e}'`)
  A.call(this.realFs, s.cS.fromPortablePath(e), t, r)
}
async mkdirPromise(e, t) {
  return await new Promise((r, A) => {
    this.realFs.mkdir(
      s.cS.fromPortablePath(e),
      t,
      this.makeCallback(r, A),
    )
  })
}
mkdirSync(e, t) {
  return this.realFs.mkdirSync(s.cS.fromPortablePath(e), t)
}
async rmdirPromise(e, t) {
  return await new Promise((r, A) => {
    t
      ? this.realFs.rmdir(
          s.cS.fromPortablePath(e),
          t,
          this.makeCallback(r, A),
        )
      : this.realFs.rmdir(
          s.cS.fromPortablePath(e),
          this.makeCallback(r, A),
        )
  })
}
}
rmdirSync(e, t) {
  return this.realFs.rmdirSync(s.cS.fromPortablePath(e), t)
}
async linkPromise(e, t) {
  return await new Promise((r, A) => {
    this.realFs.link(
      s.cS.fromPortablePath(e),
      s.cS.fromPortablePath(t),
      this.makeCallback(r, A),
    )
  })
}
}
linkSync(e, t) {
  return this.realFs.linkSync(
    s.cS.fromPortablePath(e),
    s.cS.fromPortablePath(t),
  )
}

async symlinkPromise(e, t, r) {
  const A = r || (e.endsWith('/') ? 'dir' : 'file')
  return await new Promise((r, n) => {
    this.realFs.symlink(
      s.cS.fromPortablePath(e.replace(//+$/, '')),
      s.cS.fromPortablePath(t),
      A,
      this.makeCallback(r, n),
    )
  })
}

symlinkSync(e, t, r) {
  const A = r || (e.endsWith('/') ? 'dir' : 'file')
  return this.realFs.symlinkSync(
    s.cS.fromPortablePath(e.replace(//+$/, '')),
    s.cS.fromPortablePath(t),
    A,
  )
}

async readFilePromise(e, t) {
  return await new Promise((r, A) => {
    const n = 'string' == typeof e ? s.cS.fromPortablePath(e) : e
    this.realFs.readFile(n, t, this.makeCallback(r, A))
  })
}

readFileSync(e, t) {
  const r = 'string' == typeof e ? s.cS.fromPortablePath(e) : e
  return this.realFs.readFileSync(r, t)
}

async readdirPromise(e, { withFileTypes: t } = {}) {
  return await new Promise((r, A) => {
    t
    ? this.realFs.readdir(
        s.cS.fromPortablePath(e),
        { withFileTypes: !0 },
        this.makeCallback(r, A),
      )
    : this.realFs.readdir(
        s.cS.fromPortablePath(e),
      )
  })
}
```javascript
this.makeCallback((e) => r(e), A),
)
)
}
readdirSync(e, { withFileTypes: t } = {}) {
  return t
    ? this.realFs.readdirSync(s.cS.fromPortablePath(e), {
        withFileTypes: '0,
      })
    : this.realFs.readdirSync(s.cS.fromPortablePath(e))
}
async readlinkPromise(e) {
  return await new Promise((t, r) => {
    this.realFs.readlink(
      s.cS.fromPortablePath(e),
      this.makeCallback(t, r),
    )
  }).then((e) => s.cS.toPortablePath(e))
}
readlinkSync(e) {
  return s.cS.toPortablePath(
    this.realFs.readlinkSync(s.cS.fromPortablePath(e)),
  )
}
async truncatePromise(e, t) {
  return await new Promise((r, A) => {
    this.realFs.truncate(
      s.cS.fromPortablePath(e),
      t,
      this.makeCallback(r, A),
    )
  })
}
truncateSync(e, t) {
  return this.realFs.truncateSync(s.cS.fromPortablePath(e), t)
}
watch(e, t, r) {
  return this.realFs.watch(s.cS.fromPortablePath(e), t, r)
}
watchFile(e, t, r) {
  return this.realFs.watchFile(s.cS.fromPortablePath(e), t, r)
}
unwatchFile(e, t) {
  return this.realFs.unwatchFile(s.cS.fromPortablePath(e), t)
}
makeCallback(e, t) {
  return (r, A) => {
    r ? t(r) : e(A)
  }
```

'use strict'

var A = r(42096),
n = r(46009)

class o extends A.p {
    constructor(e) {
        super(n.cS), (this.baseFs = e)
    }
    mapFromBase(e) {
        return n.cS.fromPortablePath(e)
    }
    mapToBase(e) {
        return n.cS.toPortablePath(e)
    }
}

var A = r(5944)

class n extends A.uY {
    getExtractHint(e) {
        return this.baseFs.getExtractHint(e)
    }
    resolve(e) {
        return this.mapFromBase(this.baseFs.resolve(this.mapToBase(e)))
    }
    getRealPath() {
        return this.mapFromBase(this.baseFs.getRealPath())
    }
    async openPromise(e, t, r) {
        return this.baseFs.openPromise(this.mapToBase(e), t, r)
    }
    openSync(e, t, r) {
        return this.baseFs.openSync(this.mapToBase(e), t, r)
    }
    async opendirPromise(e, t) {
        await this.baseFs.opendirPromise(this.mapToBase(e), t,
        { path: e },
    }
    opendirSync(e, t) {

return Object.assign(
    this.baseFs.opendirSync(this.mapToBase(e), t),
    { path: e },
  )
}

async readPromise(e, t, r, A, n) {
  return await this.baseFs.readPromise(e, t, r, A, n)
}

readSync(e, t, r, A, n) {
  return this.baseFs.readSync(e, t, r, A, n)
}

async writePromise(e, t, r, A, n) {
  return 'string' == typeof t
    ? await this.baseFs.writePromise(e, t, r)
    : await this.baseFs.writePromise(e, t, r, A, n)
}

writeSync(e, t, r, A, n) {
  return 'string' == typeof t
    ? this.baseFs.writeSync(e, t, r)
    : this.baseFs.writeSync(e, t, r, A, n)
}

async closePromise(e) {
  return this.baseFs.closePromise(e)
}

closeSync(e) {
  this.baseFs.closeSync(e)
}

createReadStream(e, t) {
  return this.baseFs.createReadStream(
    null !== e ? this.mapToBase(e) : e,
    t,
  )
}

createWriteStream(e, t) {
  return this.baseFs.createWriteStream(
    null !== e ? this.mapToBase(e) : e,
    t,
  )
}

async realpathPromise(e) {
  return this.mapFromBase(
    await this.baseFs.realpathPromise(this.mapToBase(e)),
  )
}

realpathSync(e) {
  return this.mapFromBase(this.baseFs.realpathSync(this.mapToBase(e)))
}

async existsPromise(e) {
return this.baseFs.existsSync(this.mapToBase(e))
}
existsSync(e) {
  return this.baseFs.existsSync(this.mapToBase(e))
}
accessSync(e, t) {
  return this.baseFs.accessSync(this.mapToBase(e), t)
}
async accessPromise(e, t) {
  return this.baseFs.accessPromise(this.mapToBase(e), t)
}
async statPromise(e) {
  return this.baseFs.statPromise(this.mapToBase(e))
}
statSync(e) {
  return this.baseFs.statSync(this.mapToBase(e))
}
async lstatPromise(e) {
  return this.baseFs.lstatPromise(this.mapToBase(e))
}
lstatSync(e) {
  return this.baseFs.lstatSync(this.mapToBase(e))
}
async chmodPromise(e, t) {
  return this.baseFs.chmodPromise(this.mapToBase(e), t)
}
chmodSync(e, t) {
  return this.baseFs.chmodSync(this.mapToBase(e), t)
}
async chownPromise(e, t, r) {
  return this.baseFs.chownPromise(this.mapToBase(e), t, r)
}
chownSync(e, t, r) {
  return this.baseFs.chownSync(this.mapToBase(e), t, r)
}
async renamePromise(e, t) {
  return this.baseFs.renamePromise(  
    this.mapToBase(e),  
    this.mapToBase(t),  
  )
}
renameSync(e, t) {
  return this.baseFs.renameSync(this.mapToBase(e), this.mapToBase(t))
}
async copyFilePromise(e, t, r = 0) {
  return this.baseFs.copyFilePromise(  
    this.mapToBase(e),  
    this.mapToBase(t),  
  )
}
copyFileSync(e, t, r = 0) {
    return this.baseFs.copyFileSync
        (this.mapToBase(e),
         this.mapToBase(t),
         r,
        )
}
async appendFilePromise(e, t, r) {
    return this.baseFs.appendFilePromise(this.fsMapToBase(e), t, r)
}
appendFileSync(e, t, r) {
    return this.baseFs.appendFileSync(this.fsMapToBase(e), t, r)
}
async writeFilePromise(e, t, r) {
    return this.baseFs.writeFilePromise(this.fsMapToBase(e), t, r)
}
writeFileSync(e, t, r) {
    return this.baseFs.writeFileSync(this.fsMapToBase(e), t, r)
}
async unlinkPromise(e) {
    return this.baseFs.unlinkPromise(this.mapToBase(e))
}
unlinkSync(e) {
    return this.baseFs.unlinkSync(this.mapToBase(e))
}
async utimesPromise(e, t, r) {
    return this.baseFs.utimesPromise(this.mapToBase(e), t, r)
}
utimesSync(e, t, r) {
    return this.baseFs.utimesSync(this.mapToBase(e), t, r)
}
async mkdirPromise(e, t) {
    return this.baseFs.mkdirPromise(this.mapToBase(e), t)
}
mkdirSync(e, t) {
    return this.baseFs.mkdirSync(this.mapToBase(e), t)
}
async rmdirPromise(e, t) {
    return this.baseFs.rmdirPromise(this.mapToBase(e), t)
}
rmdirSync(e, t) {
    return this.baseFs.rmdirSync(this.mapToBase(e), t)
}
async linkPromise(e, t) {
    return this.baseFs.linkPromise(this.mapToBase(e), this.mapToBase(t))
}
linkSync(e, t) {
    return this.baseFs.linkSync(this.mapToBase(e), this.mapToBase(t))
}

async symlinkPromise(e, t, r) {
    return this.baseFs.symlinkPromise(
        this.mapToBase(e),
        this.mapToBase(t),
        r,
    )
}

symlinkSync(e, t, r) {
    return this.baseFs.symlinkSync(
        this.mapToBase(e),
        this.mapToBase(t),
        r,
    )
}

async readFilePromise(e, t) {
    return this.baseFs.readFilePromise(this.fsMapToBase(e), t)
}

readFileSync(e, t) {
    return this.baseFs.readFileSync(this.fsMapToBase(e), t)
}

async readdirPromise(e, { withFileTypes: t } = {}) {
    return this.baseFs.readdirPromise(this.mapToBase(e), {
        withFileTypes: t,
    })
}

readdirSync(e, { withFileTypes: t } = {}) {
    return this.baseFs.readdirSync(this.mapToBase(e), {
        withFileTypes: t,
    })
}

async readlinkPromise(e) {
    return this.mapFromBase(
        await this.baseFs.readlinkPromise(this.mapToBase(e)),
    )
}

readlinkSync(e) {
    return this.mapFromBase(this.baseFs.readlinkSync(this.mapToBase(e)))
}

async truncatePromise(e, t) {
    return this.baseFs.truncatePromise(this.mapToBase(e), t)
}

truncateSync(e, t) {
    return this.baseFs.truncateSync(this.mapToBase(e), t)
}
watch(e, t, r) {
return this.baseFs.watch(this.mapToBase(e), t, r)
}
watchFile(e, t, r) {
return this.baseFs.watchFile(this.mapToBase(e), t, r)
}
unwatchFile(e, t) {
return this.baseFs.unwatchFile(this.mapToBase(e), t)
}
fsMapToBase(e) {
return 'number' == typeof e ? e : this.mapToBase(e)
}
}
},
17674: (e, t, r) => {
'use strict'
r.d(t, { p: () => c })
var A = r(78420),
n = r(42096),
o = r(46009)
const i = /^[0-9]+$/,
s = /^(\/(?:[^/]+\/)*?\$\$virtual)((?:\/((?:[^/]+-)?[a-f0-9]+)(?:\/([^/]+))?)?((?:\/.*)?))$/,
a = /^([^/]+-)?[a-f0-9]+$/
class c extends n.p {
constructor({ baseFs: e = new A.S() } = {}) {
super(o.y1), (this.baseFs = e)
}
static makeVirtualPath(e, t, r) {
if ('$$virtual' !== o.y1.basename(e))
throw new Error(
'Assertion failed: Virtual folders must be named "$$virtual"',
)
if (!o.y1.basename(t).match(a))
throw new Error(
'Assertion failed: Virtual components must be ended by an hexadecimal hash',
)
const A = o.y1.relative(o.y1.dirname(e), r).split('/')
let n = 0
for (; n < A.length && '..' === A[n]; ) n += 1
const i = A.slice(n)
return o.y1.join(e, t, String(n), ...i)
}
static resolveVirtual(e) {
const t = e.match(s)
if (!t || (!t[3] && t[5])) return e
const r = o.y1.dirname(t[1])
if (!t[3] || !t[4]) return r
if (!i.test(t[4])) return e

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const A = Number(t[4]),
n = '../'.repeat(A),
a = t[5] || '.
return c.resolveVirtual(o.y1.join(r, n, a))
}
getExtractHint(e) {
  return this.baseFs.getExtractHint(e)
}
getRealPath() {
  return this.baseFs.getRealPath()
}
realpathSync(e) {
  const t = e.match(s)
  if (!t) return this.baseFs.realpathSync(e)
  if (!t[5]) return e
  const r = this.baseFs.realpathSync(this.mapToBase(e))
  return c.makeVirtualPath(t[1], t[3], r)
}
async realpathPromise(e) {
  const t = e.match(s)
  if (!t) return await this.baseFs.realpathPromise(e)
  if (!t[5]) return e
  const r = await this.baseFs.realpathPromise(this.mapToBase(e))
  return c.makeVirtualPath(t[1], t[3], r)
}
mapToBase(e) {
  return c.resolveVirtual(e)
}
mapFromBase(e) {
  return e
}

';

90739: (c, t, r) => {
  'use strict'
  r.d(t, { k: () => C, d: () => f })
  var A = r(35747),
  n = r(92413),
  o = r(31669),
  i = r(78761),
  s = r.n(i),
  a = r(5944),
  c = r(78420),
  g = r(19697),
  l = r(38783),
  u = r(22004),
  h = r(26984),
  p = r(46009),
d = r(65760)
const C = 'mixed'
class f extends a.fS {
    constructor(e, t) {
        super(),
        (this.lzSource = null),
        (this.listings = new Map()),
        (this.entries = new Map()),
        (this.fileSources = new Map()),
        (this fds = new Map()),
        (this.nextFd = 0),
        (this.ready = !1),
        (this readOnly = !1),
        (this.libzip = t.libzip)
        const r = t
        if (
            ((this.level = void 0 !== r.level ? r.level : C),
            null === e &&
            (e = Buffer.from([ 80,
                75,
                5,
                6,
                0,
                0,
                0,
                0,
                0,
                0,
                0,
                0,
                0,
                0,
                0,
                ])).
            'string' === typeof e)
        ) {
            const { baseFs: t = new c.S() } = r
            ;(this.baseFs = t), (this.path = e)
        } else (this.path = null), (this.baseFs = null)
        if (t.stats) this.stats = t.stats
else if ('string' == typeof e)
    try {
        this.stats = this.baseFs.statSync(e)
    } catch (e) {
        if ('ENOENT' !== e.code || 'r.create') throw e
        this.stats = d.makeDefaultStats()
    }
else this.stats = d.makeDefaultStats()

const A = this.libzip.malloc(4)

try {
    let n = 0
    if ('string' == typeof e &&
        r.create &&
        (n |= this.libzip.ZIP_CREATE | this.libzip.ZIP_TRUNCATE),
    t.readOnly &&
        ((n |= this.libzip.ZIP_RDONLY), (this.readOnly = !0)),
    'string' == typeof e)
    )
    this.zip = this.libzip.open(p.cS.fromPortablePath(e), n, A)
else {
    const t = this.allocateUnattachedSource(e)
    try {
        ;(this.zip = this.libzip.openFromSource(t, n, A)),
        (this.lzSource = t)
    } catch (e) {
        throw (this.libzip.source.free(t), e)
    }
}

if (0 === this.zip) {
    const e = this.libzip.struct.errorS()
    throw (this.libzip.error.initWithCode(e, this.libzip.getValue(A, 'i32'),
        this.makeLibzipError(e))
    )
} finally {
    this.libzip.free(A)
}

this.listings.set(p.LZ.root, new Set())

const n = this.libzip.getNumEntries(this.zip, 0)
for (let e = 0; e < n; ++e) {
    const t = this.libzip.getName(this.zip, e, 0)
    if (p.y1.isAbsolute(t)) continue
    const r = p.y1.resolve(p.LZ.root, t)
this.registerEntry(r, e),
    t.endsWith('/') && this.registerListing(r)
}
if (
    ((this.symlinkCount = this.libzip.ext.countSymlinks(this.zip)),
    -1 === this.symlinkCount)
)
    throw this.makeLibzipError(this.libzip.getError(this.zip))
this.ready = !0
}
makeLibzipError(e) {
    const t = this.libzip.struct.errorCodeZip(e),
    r = this.libzip.error.strerror(e),
    A = new h.Yn(r, this.libzip.errors[t])
    if (t === this.libzip.errors.ZIP_ER_CHANGED)
        throw new Error('Assertion failed: Unexpected libzip error: ' + A.message,
    )
    return A
}
getExtractHint(e) {
    for (const t of this.entries.keys()) {
        const r = this.pathUtils.extname(t)
        if (e.relevantExtensions.has(r)) return !0
    }
    return !1
}
getAllFiles() {
    return Array.from(this.entries.keys())
}
getRealPath() {
    if (!this.path)
        throw new Error("ZipFS don't have real paths when loaded from a buffer",
    )
    return this.path
}
getBufferAndClose() {
    if (!this.prepareClose(), !this.lzSource)
        throw new Error('ZipFS was not created from a Buffer')
    try {
        if (
            (this.libzip.source.keep(this.lzSource),
            -1 === this.libzip.close(this.zip))
        )
            throw this.makeLibzipError(this.libzip.getError(this.zip))
    if (-1 === this.libzip.source.open(this.lzSource))
        throw this.makeLibzipError(}
throw this.makeLibzipError(
    this.libzip.source.error(this.lzSource),
)
}

const e = this.libzip.source.tell(this.lzSource)
if (-1 === e)
    throw this.makeLibzipError(
        this.libzip.source.error(this.lzSource),
    )

if (t)
    try {
        const r = this.libzip.source.read(this.lzSource, t, e)
        if (-1 === r)
            throw this.makeLibzipError(
                this.libzip.source.error(this.lzSource),
            )
        if (r < e) throw new Error('Incomplete read')
        if (r > e) throw new Error('Overread')
        const A = this.libzip.HEAPU8.subarray(t, t + e)
        return Buffer.from(A)
    } finally {
        this.libzip.free(t)
    }
} finally {
    this.libzip.source.close(this.lzSource),
}
this.libzip.source.free(this.lzSource),
(this.ready = !1)
}
}
prepareClose() {
  if (!this.ready) throw h.Vw('archive closed, close')
  (0, 1.L)(this)
}
saveAndClose() {
  if (!this.path || !this.baseFs)
    throw new Error('ZipFS cannot be saved and must be discarded when loaded from a buffer',
  )
  if ((this.prepareClose(), this.readOnly))
    return void this.discardAndClose()
  const e = this.baseFs.existsSync(this.path)
    ? 511 & this.baseFs.statSync(this.path).mode
    : null
  if (-1 === this.libzip.close(this.zip))
    throw this.makeLibzipError(this.libzip.getError(this.zip))
  null === e
    ? this.baseFs.chmodSync(this.path, this.stats.mode)
    : e !== (511 & this.baseFs.statSync(this.path).mode) &&
      this.baseFs.chmodSync(this.path, e),
    (this.ready = !1)
}
discardAndClose() {
  this.prepareClose(),
  this.libzip.discard(this.zip),
  (this.ready = !1)
}
resolve(e) {
  return p.y1.resolve(p.LZ.root, e)
}
async openPromise(e, t, r) {
  return this.openSync(e, t, r)
}
openSync(e, t, r) {
  const A = this.nextFd++
  return this.fds.set(A, { cursor: 0, p: e }), A
}
hasOpenFileHandles() {
  return !!this.fds.size
}
async opendirPromise(e, t) {
  return this.opendirSync(e, t)
}
opendirSync(e, t = { }) {

const r = this.resolveFilename(`opendir "$e"`, e)
if (!this.entries.has(r) &amp;&amp; !this.listings.has(r))
  throw h.z6(`opendir "$e"`)
const A = this.listings.get(r)
if (!A) throw h.Ab(`opendir "$e"`)
const n = [...A],
o = this.openSync(r, 'r')
return (0, g.a)(this, r, n, {
onClose: () =&gt; {
  this.closeSync(o)
},
})
async readPromise(e, t, r, A, n) {
  return this.readSync(e, t, r, A, n)
}
readSync(e, t, r = 0, A = 0, n = -1) {
  const o = this.fds.get(e)
  if (void 0 === o) throw h.Ch('read')
  let i
  i = -1 === n || null === n ? o.cursor : n
  const s = this.readFileSync(o.p)
  s.copy(t, r, i, i + A)
  const a = Math.max(0, Math.min(s.length - i, A))
  return (-1 !== n && null !== n) || (o.cursor += a), a
}
async writePromise(e, t, r, A, n) {
  return 'string' == typeof t
    ? this.writeSync(e, t, n)
    : this.writeSync(e, t, r, A, n)
}
writeSync(e, t, r, A, n) {
  if (void 0 === this.fds.get(e)) throw h.Ch('read')
  throw new Error('Unimplemented')
}
async closePromise(e) {
  return this.closeSync(e)
}
closeSync(e) {
  if (void 0 === this.fds.get(e)) throw h.Ch('read')
  this.fds.delete(e)
}
createReadStream(e, { encoding: t } = {}) {
  if (null === e) throw new Error('Unimplemented')
  const r = this.openSync(e, 'r'),
    A = Object.assign(
      new n.PassThrough({
        emitClose: !0,
      })
    );
autoDestroy: !0,
destroy: (e, t) => {
    clearImmediate(o), this.closeSync(r), t(e)
},
}

{
close() {
    A.destroy()
},
bytesRead: 0,
}
path: e,
},
},
o = setImmediate(async () => {
    try {
        const r = await this.readFilePromise(e, t)
        ;(A.bytesRead = r.length), A.end(r)
    } catch (e) {
        A.destroy(e)
    }
})
return A
}
createWriteStream(e, { encoding: t } = {}) {
    if (this.readOnly) throw h.YW(`open '${e}'`)
    if (null === e) throw new Error('Unimplemented')
    const r = [],
    A = this.openSync(e, 'w'),
    o = Object.assign(
        new n.PassThrough({
            autoDestroy: !0,
            emitClose: !0,
            destroy: (n, o) => {
                try {
                    n
                    ? o(n)
                    : (this.writeFileSync(e, Buffer.concat(r), t), o(null))
                } catch (e) {
                    o(e)
                } finally {
                    this.closeSync(A)
                }
            },
        },
    ),
    {
        bytesWritten: 0,
        close() {
        }
    })
}

o.destroy()
},
),
}
return (o.on('data', (e) => {
  const t = Buffer.from(e)
  ;(o.bytesWritten += t.length), r.push(t)
}),
o)
)
async realpathPromise(e) {
  return this.realpathSync(e)
}
realpathSync(e) {
  const t = this.resolveFilename(`lstat '${e}'`, e)
  if (!this.entries.has(t) && !this.listings.has(t))
    throw h.z6(`lstat '${e}'`)
  return t
}
async existsPromise(e) {
  return this.existsSync(e)
}
existsSync(e) {
  if (!this.ready) throw h.Vw(`archive closed, existsSync '${e}'`)
  if (0 === this.symlinkCount) {
    const t = p.y1.resolve(p.LZ.root, e)
    return this.entries.has(t) || this.listings.has(t)
  }
  let t
  try {
    t = this.resolveFilename(`stat '${e}'`, e)
  } catch (e) {
    return !1
  }
  return this.entries.has(t) || this.listings.has(t)
}
async accessPromise(e, t) {
  return this.accessSync(e, t)
}
accessSync(e, t = A.constants.F_OK) {
  const r = this.resolveFilename(`access '${e}'`, e)
  if (!this.entries.has(r) && !this.listings.has(r))
    throw h.z6(`access '${e}'`)
  if (this.readOnly && t & A.constants.W_OK)
    throw h.YW(`access '${e}'`)
}
async statPromise(e) {
    return this.statSync(e)
}

statSync(e) {
    const t = this.resolveFilename(`stat '${e}'`, e)
    if (!this.entries.has(t) && !this.listings.has(t))
        throw h.z6(`stat '${e}'`)
    if (/\/[e.length - 1] && !this.listings.has(t))
        throw h.Ab(`stat '${e}'`)
    return this.statImpl(`stat '${e}'`, t)
}

async lstatPromise(e) {
    return this.lstatSync(e)
}

lstatSync(e) {
    const t = this.resolveFilename(`lstat '${e}'`, e, !1)
    if (!this.entries.has(t) && !this.listings.has(t))
        throw h.z6(`lstat '${e}'`)
    if (/\/[e.length - 1] && !this.listings.has(t))
        throw h.Ab(`lstat '${e}'`)
    return this.statImpl(`lstat '${e}'`, t)
}

statImpl(e, t) {
    const r = this.entries.get(t)
    if (void 0 !== r) {
        const e = this.libzip.struct.statS()
        if (-1 === this.libzip.statIndex(this.zip, r, 0, 0, e))
            throw this.makeLibzipError(this.libzip.getError(this.zip))
        const A = this.stats.uid,
            n = this.stats.gid,
            o = this.libzip.struct.statSize(e) >>> 0,
            i = 512,
            s = Math.ceil(o / i),
            a = 1e3 * (this.libzip.struct.statMtime(e) >>> 0),
            c = a,
            g = a,
            l = a,
            h = new Date(c),
            p = new Date(g),
            C = new Date(l),
            f = new Date(a),
            I = this.listings.has(t)
                ? u.QB
                : this.isSymbolicLink(r)
                ? u.Zv
                : u.Pc,
            E = I === u.QB ? 493 : 420,
            B = 1 | (511 & this.getUnixMode(r, E))
return Object.assign(new d.StatEntry(), {
    uid: A,
gid: n,
size: o,
blksize: i,
blocks: s,
atime: h,
birthtime: p,
ctime: C,
mtime: f,
atimeMs: c,
birthtimeMs: g,
ctimeMs: l,
mtimeMs: a,
mode: B,
})

if (this.listings.has(t)) {
    const e = this.stats.uid,
t = this.stats.gid,
r = 0,
A = 512,
n = 0,
o = this.stats.mtimeMs,
i = this.stats.mtimeMs,
s = this.stats.mtimeMs,
a = this.stats.mtimeMs,
c = new Date(o),
g = new Date(i),
l = new Date(s),
h = new Date(a),
p = 493 | u.QB
return Object.assign(new d.StatEntry(), {
    uid: e,
gid: t,
size: r,
blksize: A,
blocks: n,
atime: c,
birthtime: g,
ctime: l,
mtime: h,
atimeMs: o,
birthtimeMs: i,
ctimeMs: s,
mtimeMs: a,
mode: p,
})}
throw new Error('Unreachable')
}

getUnixMode(e, t) {
  if (0
    -1 ===
    this.libzip.file.getExternalAttributes(
      this.zip,
      e,
      0,
      0,
      this.libzip.uint08S,
      this.libzip.uint32S,
    )
  )
    throw this.makeLibzipError(this.libzip.getError(this.zip))
  return this.libzip.getValue(this.libzip.uint08S, 'i8') >>> 0 !==
    this.libzip.ZIP_OPSYS_UNIX
      ? t
      : this.libzip.getValue(this.libzip.uint32S, 'i32') >>> 16
}

registerListing(e) {
  let t = this.listings.get(e)
  if (t) return t
  const r = this.registerListing(p.y1.dirname(e))
  return (t = new Set()),
    r.add(p.y1.basename(e)),
    this.listings.set(e, t),
    t
  )
}

registerEntry(e, t) {
  this.registerListing(p.y1.dirname(e)).add(p.y1.basename(e)),
  this.entries.set(e, t)
}

unregisterListing(e) {
  this.listings.delete(e)
  const t = this.listings.get(p.y1.dirname(e))
  null === t || t.delete(p.y1.basename(e))
}

unregisterEntry(e) {
  this.unregisterListing(e)
  const t = this.entries.get(e)
  this.entries.delete(e),
  void 0 !== t &&
    (this.fileSources.delete(t),
      this.isSymbolicLink(t) && this.symlinkCount--)
}
deleteEntry(e, t) {
    this.unregisterEntry(e)
    if (-1 === this.libzip.delete(this.zip, t))
        throw this.makeLibzipError(this.libzip.getError(this.zip))
}

resolveFilename(e, t, r = !0) {
    if (!this.ready) throw h.Vw('archive closed,' + e)
    let A = p.y1.resolve(p.LZ.root, t)
    if ('/' === A) return p.LZ.root
    const n = this.entries.get(A)
    if (r && void 0 !== n) {
        if (0 !== this.symlinkCount && this.isSymbolicLink(n)) {
            const t = this.getFileSource(n).toString()
            return this.resolveFilename(
                e,
                p.y1.resolve(p.y1.dirname(A), t),
                !0,
            )
        }
        return A
    }
    for (;;) {
        const t = this.resolveFilename(e, p.y1.dirname(A), !0),
            n = this.listings.has(t),
            o = this.entries.has(t)
        if (!n && !o) throw h.z6(e)
        if (!n) throw h.Ab(e)
        if (A = p.y1.resolve(t, p.y1.basename(A)),
            !r || 0 === this.symlinkCount)
            break
        const i = this.libzip.name.locate(this.zip, A.slice(1))
        if (-1 === i) break
        if (!this.isSymbolicLink(i)) break
        {
            const e = this.getFileSource(i).toString()
            A = p.y1.resolve(p.y1.dirname(A), e)
        }
    }
    return A
}

allocateBuffer(e) {
    Buffer.isBuffer(e) || (e = Buffer.from(e))
    const t = this.libzip.malloc(e.byteLength)
    if (!t) throw new Error("Could't allocate enough memory")
    return (}
new Uint8Array(this.libzip.HEAPU8.buffer, t, e.byteLength).set(e,
  { buffer: t, byteLength: e.byteLength }
)
}
allocateUnattachedSource(e) {
  const t = this.libzip.struct.errorS(),
  { buffer: r, byteLength: A } = this.allocateBuffer(e),
  n = this.libzip.source.fromUnattachedBuffer(r, A, 0, !0, t)
  if (0 === n) throw (this.libzip.free(t), this.makeLibzipError(t))
  return n
}
allocateSource(e) {
  const { buffer: t, byteLength: r } = this.allocateBuffer(e),
  A = this.libzip.source.fromBuffer(this.zip, t, r, 0, !0)
  if (0 === A)
    throw (this.libzip.free(t), this.makeLibzipError(this.libzip.getError(this.zip)))
  return A
}
setFileSource(e, t) {
  const r = Buffer.isBuffer(t) ? t : Buffer.from(t),
        A = p.y1.relative(p.LZ.root, e),
        n = this.allocateSource(t)
  try {
    const e = this.libzip.file.add(
      this.zip,
      A,
      n,
      this.libzip.ZIP_FL_OVERWRITE,
    )
    if (-1 === e)
      throw this.makeLibzipError(this.libzip.getError(this.zip))
    if ('mixed' !== this.level) {
      let t
      t =
        0 === this.level
        ? this.libzip.ZIP_CM_STORE
        : this.libzip.ZIP_CM_DEFLATE
      if (-1 ===
        this.libzip.file.setCompression(this.zip, e, 0, t, this.level)
      )
        throw this.makeLibzipError(this.libzip.getError(this.zip))
    }
    return this.fileSources.set(e, r), e
  } catch (e) {
throw (this.libzip.source.free(n), e)
}

isSymbolicLink(e) {
if (0 === this.symlinkCount) return !1
if (0 === this.libzip.file.getExternalAttributes(
    this.zip,
    e,
    0,
    0,
    this.libzip.uint08S,
    this.libzip.uint32S,
)
) throw this.makeLibzipError(this.libzip.getError(this.zip))
if (this.libzip.getValue(this.libzip.uint08S, 'i8') >>> 0 !== this.libzip.ZIP_OPSYS_UNIX)
return !1
return ((this.libzip.getValue(this.libzip.uint32S, 'i32') >>> 16) & u.wK) === u.Zv

getFileSource(e, t = { asyncDecompress: !1 }) {
const r = this.fileSources.get(e)
if (void 0 !== r) return r
const A = this.libzip.struct.statS()
if (-1 === this.libzip.statIndex(this.zip, e, 0, 0, A))
    throw this.makeLibzipError(this.libzip.getError(this.zip))
const n = this.libzip.struct.statCompSize(A),
o = this.libzip.struct.statCompMethod(A),
i = this.libzip.malloc(n)
try {
    const r = this.libzip.fopenIndex(
        this.zip,
        e,
        0,
        this.libzip.ZIP_FL_COMPRESSED,
    )
    if (0 !== r)
        throw this.makeLibzipError(this.libzip.getError(this.zip))
    try {
        const A = this.libzip.fread(r, i, n, 0)
if (-1 === A)
    throw this.makeLibzipError(this.libzip.file.getError(r))
if (A < n) throw new Error('Incomplete read')
if (A > n) throw new Error('Overread')
const a = this.libzip.HEAPU8.subarray(i, i + n),
c = Buffer.from(a)
if (0 === o) return this.fileSources.set(e, c), c
if (t.asyncDecompress)
    return new Promise((t, r) => {
        s().inflateRaw(c, (A, n) => {
            A ? r(A) : (this.fileSources.set(e, n), t(n))
        })
    })
    {
        const t = s().inflateRawSync(c)
        return this.fileSources.set(e, t), t
    }
} finally {
    this.libzip.fclose(r)
} finally {
    this.libzip.free(i)
}
async chmodPromise(e, t) {
    return this.chmodSync(e, t)
}
chmodSync(e, t) {
    if (this.readOnly) throw h.YW(`chmod '${e}'`)
t &= 493
    const r = this.resolveFilename(`chmod '${e}'`, e, !1),
        A = this.entries.get(r)
    if (void 0 === A)
        throw new Error('`Assertion failed: The entry should have been registered (${r})`',
    )
    const n = (-512 & this.getUnixMode(A, 0 | u.Pe)) | t
    if (-1 ===
        this.libzip.file.setExternalAttributes( 
            this.zip, 
            A, 
            0, 
            0, 
            this.libzip.ZIP_OPSYS_UNIX, 
            n << 16,
        )
    )
throw this.makeLibzipError(this.libzip.getError(this.zip))
}
async chownPromise(e, t, r) {
    return this.chownSync(e, t, r)
}
chownSync(e, t, r) {
    throw new Error('Unimplemented')
}
async renamePromise(e, t) {
    return this.renameSync(e, t)
}
renameSync(e, t) {
    throw new Error('Unimplemented')
}
async copyFilePromise(e, t, r) {
    const {
        indexSource: A,
        indexDest: n,
        resolvedDestP: o,
    } = this.prepareCopyFile(e, t, r),
    i = await this.getFileSource(A, { asyncDecompress: !0 }),
    s = this.setFileSource(o, i)
    s !== n && this.registerEntry(o, s)
}
copyFileSync(e, t, r = 0) {
    const {
        indexSource: A,
        indexDest: n,
        resolvedDestP: o,
    } = this.prepareCopyFile(e, t, r),
    i = this.getFileSource(A),
    s = this.setFileSource(o, i)
    s !== n && this.registerEntry(o, s)
}
prepareCopyFile(e, t, r = 0) {
    if (this.readOnly) throw h.YW(`copyfile '${e} -> '${t}'`)
if (0 != (r & A.constants.COPYFILE_FICLONE_FORCE))
    throw h.hk(
        'unsupported clone operation',
        `copyfile '${e}' -> '${t}'`,
        )
    const n = this.resolveFilename(`copyfile '${e} -> '${t}'`, e),
o = this.entries.get(n)
    if (void 0 === o) throw h.hq(`copyfile '${e}' -> '${t}'`, e),
    const i = this.resolveFilename(`copyfile '${e} -> '${t}'`, t),
s = this.entries.get(i)
    if (0 !=
(r &
   (A.constants.COPYFILE_EXCL |
    A.constants.COPYFILE_FICLONE_FORCE)) &&
void 0 !== s
)
throw h.cT('copyfile "$\{e\}" -> "$\{t\}"')
return { indexSource: o, resolvedDestP: i, indexDest: s }
}
async appendFilePromise(e, t, r) {
if (this.readOnly) throw h.YW('open "$\{e\}"')
return (void 0 === r
  ? (r = { flag: 'a' })
  : 'string' === typeof r
  ? (r = { flag: 'a', encoding: r })
  : void 0 === r.flag && (r = { flag: 'a', ...r })),
this.writeFilePromise(e, t, r)
}
}
appendFileSync(e, t, r = {}) {
if (this.readOnly) throw h.YW('open "$\{e\}"')
return (void 0 === r
  ? (r = { flag: 'a' })
  : 'string' === typeof r
  ? (r = { flag: 'a', encoding: r })
  : void 0 === r.flag && (r = { flag: 'a', ...r })),
this.writeFileSync(e, t, r)
}
async writeFilePromise(e, t, r) {
const {
  encoding: A,
  index: n,
  resolvedP: o,
} = this.prepareWriteFile(e, r)
void 0 !== n &&
 'object' === typeof r &&
 r.flag &&
 r.flag.includes('a') &&
(t = Buffer.concat([
   await this.getFileSource(n, { asyncDecompress: !0 }),
   Buffer.from(t),
 ])),
null !== A && (t = t.toString(A))
const i = this.setFileSource(o, t)
i !== n && this.registerEntry(o, i)
}
writeFileSync(e, t, r) {
    const {
        encoding: A,
        index: n,
        resolvedP: o,
    } = this.prepareWriteFile(e, r)
    void 0 !== n &&
    'object' == typeof r &&
    r.flag &&
    r.flag.includes('a') &&
    (t = Buffer.concat([this.getFileSource(n), Buffer.from(t)])),
    null !== A && (t = t.toString(A))
    const i = this.setFileSource(o, t)
    i !== n && this.registerEntry(o, i)
}

prepareWriteFile(e, t) {
    if ('string' != typeof e) throw h.Ch('read')
    if (this.readOnly) throw h.YW(`open '${e}'`)
    const r = this.resolveFilename(`open '${e}'`, e)
    if (this.listings.has(r)) throw h.GA(`open '${e}'`)
    let A = null
    'string' == typeof t
    ? (A = t)
    : 'object' == typeof t && t.encoding && (A = t.encoding)
    return { encoding: A, resolvedP: r, index: this.entries.get(r) }
}

async unlinkPromise(e) {
    return this.unlinkSync(e)
}

unlinkSync(e) {
    if (this.readOnly) throw h.YW(`unlink '${e}'`)
    const t = this.resolveFilename(`unlink '${e}'`, e)
    if (this.listings.has(t)) throw h.GA(`unlink '${e}'`)
    const r = this.entries.get(t)
    if (void 0 === r) throw h.hq(`unlink '${e}'`)
    this.deleteEntry(t, r)
}

async utimesPromise(e, t, r) {
    return this.utimesSync(e, t, r)
}

utimesSync(e, t, r) {
    if (this.readOnly) throw h.YW(`utimes '${e}'`)
    const t = this.resolveFilename(`utimes '${e}'`, e)
    if (this.listings.has(t)) throw h.GA(`utimes '${e}'`)
    const r = this.entries.get(t)
    if (void 0 === r) throw h.hq(`utimes '${e}'`)
    this.utimesImpl(A, r)
}

async lutimesPromise(e, t, r) {
    return this.lutimesSync(e, t, r)
}


lutimesSync(e, t, r) {
    if (this.readOnly) throw h.YW(`lutimes '${e}'`)
    const A = this.resolveFilename(`utimes '${e}'`, e, !1)
    this.utimesImpl(A, r)
}

utimesImpl(e, t) {
    this.listings.has(e) &&
    (this.entries.has(e) || this.hydrateDirectory(e))
    const r = this.entries.get(e)
    if (void 0 === r) throw new Error('Unreachable')
    if (-1 ===
        this.libzip.file.setMtime(
            this.zip,
            r,
            0,
            (function (e) {
                if ('string' === typeof e && String(+e) === e) return +e
                if (Number.isFinite(e)) return e < 0 ? Date.now() / 1e3 : e
                if ((0, o.isDate)(e)) return e.getTime() / 1e3
                throw new Error('Invalid time')
            })(t),
            0,
            )
        )
        throw this.makeLibzipError(this.libzip.getError(this.zip))
    }

async mkdirPromise(e, t) {
    return this.mkdirSync(e, t)
}

mkdirSync(e, { mode: t = 493, recursive: r = !1 } = {}) {
    if (r) return void this.mkdirpSync(e, { chmod: t })
    if (this.readOnly) throw h.YW(`mkdir '${e}'`)
    const A = this.resolveFilename(`mkdir '${e}'`, e)
    if (this.entries.has(A) || this.listings.has(A))
        throw h.cT(`mkdir '${e}'`)
    this.hydrateDirectory(A), this.chmodSync(A, t)
}

async rmdirPromise(e, t) {
    return this.rmdirSync(e, t)
}

rmdirSync(e, { recursive: t = !1 } = {}) {
    if (this.readOnly) throw h.YW(`rmdir '${e}'`)
    if (t) return void this.removeSync(e)
    const r = this.resolveFilename(`rmdir '${e}'`, e),
        A = this.listings.get(r)
    if (!A) throw h.Ab(`rmdir '${e}'`)
    if (A.size > 0) throw h.re(`rmdir '${e}'`)
const n = this.entries.get(r)
if (void 0 === n) throw h.hq(`rmdir '${e}'`)
this.deleteEntry(e, n)
}

hydrateDirectory(e) {
    const t = this.libzip.dir.add(this.zip, p.y1.relative(p.LZ.root, e))
    if (-1 === t)
        throw this.makeLibzipError(this.libzip.getError(this.zip))
    return this.registerListing(e), this.registerEntry(e, t), t
}

async linkPromise(e, t) {
    return this.linkSync(e, t)
}

linkSync(e, t) {
    throw h.Hs(`link '${e}' -> '${t}'`)
}

async symlinkPromise(e, t) {
    return this.symlinkSync(e, t)
}

symlinkSync(e, t) {
    if (this.readOnly) throw h.YW(`symlink '${e}' -> '${t}'`)
    const r = this.resolveFilename(`symlink '${e}' -> '${t}'`, t)
    if (this.listings.has(r)) throw h.GA(`symlink '${e}' -> '${t}'`)
    if (this.entries.has(r)) throw h.cT(`symlink '${e}' -> '${t}'`)
    const A = this.setFileSource(r, e)
    this.registerEntry(r, A)
    if (-1 ===
        this.libzip.file.setExternalAttributes(
            this.zip,
            A,
            0,
            0,
            this.libzip.ZIP_OPSYS_UNIX,
            (511 | u.Zv) << 16,
        )
    )
        throw this.makeLibzipError(this.libzip.getError(this.zip))
    this.symlinkCount += 1
}

async readFilePromise(e, t) {
    'object' == typeof t && (t = t ? t.encoding : void 0)
    const r = await this.readFileBuffer(e, { asyncDecompress: !0 })
    return t ? r.toString(t) : r
}

readFileSync(e, t) {
    'object' == typeof t && (t = t ? t.encoding : void 0)
    const r = this.readFileBuffer(e)
return t ? r.toString(t) : r
}

readFileBuffer(e, t = { asyncDecompress: !1 }) {
  if ('string' != typeof e) throw h.Ch('read')
  const r = this.resolveFilename(`open '${e}'`, e)
  if (!this.entries.has(r) && !this.listings.has(r))
    throw h.z6(`open '${e}'`)
  if (/[^\w.\-]/ == e[e.length - 1] && !this.listings.has(r))
    throw h.Ab(`open '${e}'`)
  if (!this.listings.has(r)) throw h.GA('read')
  const A = this.entries.get(r)
  if (void 0 === A) throw new Error('Unreachable')
  return this.getFileSource(A, t)
}

async readdirPromise(e, { withFileTypes: t } = {}) {
  return this.readdirSync(e, { withFileTypes: t })
}

readdirSync(e, { withFileTypes: t } = {}) {
  const r = this.resolveFilename(`scandir '${e}'`, e)
  if (!this.entries.has(r) && !this.listings.has(r))
    throw h.z6(`scandir '${e}'`)
  const A = this.listings.get(r)
  if (!A) throw h.Ab(`scandir '${e}'`)
  const n = [...A]
  return t
    ? n.map((t) =>
      Object.assign(this.statImpl('lstat', p.y1.join(e, t)), {
        name: t,
      }),
    )
    : n
}

async readlinkPromise(e) {
  const t = this.prepareReadlink(e)
  return (await this.getFileSource(t, { asyncDecompress: !0 })).toString()
}

readlinkSync(e) {
  const t = this.prepareReadlink(e)
  return this.getFileSource(t).toString()
}

prepareReadlink(e) {
  const t = this.resolveFilename(`readlink '${e}'`, e, !1)
  if (!this.entries.has(t) && !this.listings.has(t))
    throw h.z6(`readlink '${e}'`)
  if (/[^\w.\-]/ == e[e.length - 1] && !this.listings.has(t))
    throw h.Ab(`open '${e}'`)
}
if (this.listings.has(t)) throw h.hq(`readlink '${e}'`)
const r = this.entries.get(t)
if (void 0 === r) throw new Error('Unreachable')
if (!this.isSymbolicLink(r)) throw h.hq(`readlink '${e}'`)
return r
}
async truncatePromise(e, t = 0) {
  const r = this.resolveFilename(`open '${e}'`, e),
    A = this.entries.get(r)
  if (void 0 === A) throw h.hq(`open '${e}'`)
  const n = await this.getFileSource(A, { asyncDecompress: !0 }),
    o = Buffer.alloc(t, 0)
  return n.copy(o), await this.writeFilePromise(e, o)
}
truncateSync(e, t = 0) {
  const r = this.resolveFilename(`open '${e}'`, e),
    A = this.entries.get(r)
  if (void 0 === A) throw h.hq(`open '${e}'`)
  const n = this.getFileSource(A),
    o = Buffer.alloc(t, 0)
  return n.copy(o), this.writeFileSync(e, o)
}
watch(e, t, r) {
  let A
  switch (typeof t) {
    case 'function':
    case 'string':
    case 'undefined':
      A = !0
      break
    default:
      ;({ persistent: A = !0 } = t)
      break
  }
  if (!A) return { on: () => {}, close: () => {} }
  const n = setInterval(() => {}, 864e5)
  return {
    on: () => { },
    close: () => {
      clearInterval(n)
    },
  }
}
watchFile(e, t, r) {
  const A = this.resolveFilename(`open '${e}'`, e)
  return (0, l._x)(this, A, t, r)
}
unwatchFile(e, t) {
  const r = this.resolveFilename(`open '${e}'`, e)
return (0, l.nd)(this, r, t)
}
}
}
53660: (e, t, r) => {
'use strict'
  r.d(t, { A: () => l })
  var A = r(35747),
  n = r(5944),
  o = r(78420),
  i = r(90739),
  s = r(38783),
  a = r(46009)
  const c = 2147483648,
  g = /.*(?<!\/).zip(?=\/|$)/
  class l extends n.fS {
  constructor(
    libzip: e,
    baseFs: t = new o.S(),
    filter: r = null,
    maxOpenFiles: A = 1 / 0,
    readOnlyArchives: n = !1,
    useCache: i = !0,
    maxAge: s = 5e3,
  ) {
    super(),
    (this.fdMap = new Map()),
    (this.nextFd = 3),
    (this.isZip = new Set()),
    (this.notZip = new Set()),
    (this.realPaths = new Map()),
    (this.limitOpenFilesTimeout = null),
    (this.libzip = e),
    (this.baseFs = t),
    (this.zipInstances = i ? new Map() : null),
    (this.filter = r),
    (this.maxOpenFiles = A),
    (this.readOnlyArchives = n),
    (this.maxAge = s)
  }
  static async openPromise(e, t) {
    const r = new l(t)
    try {
      return await e(r)
    } finally {
      r.saveAndClose()
    }
  }
}
getExtractHint(e) {
    return this.baseFs.getExtractHint(e)
}

getRealPath() {
    return this.baseFs.getRealPath()
}

saveAndClose() {
    if (((0, s.L)(this), this.zipInstances))
        for (const [e, { zipFs: t }] of this.zipInstances.entries())
            t.saveAndClose(), this.zipInstances.delete(e)
}

discardAndClose() {
    if (((0, s.L)(this), this.zipInstances))
        for (const [e, { zipFs: t }] of this.zipInstances.entries())
            t.discardAndClose(), this.zipInstances.delete(e)
}

resolve(e) {
    return this.baseFs.resolve(e)
}

remapFd(e, t) {
    const r = this.nextFd++ | c
    return this.fdMap.set(r, [e, t]), r
}

async openPromise(e, t, r) {
    return await this.makeCallPromise(
        e,
        async () => await this.baseFs.openPromise(e, t, r),
        async (e, { subPath: A }) =>
            this.remapFd(e, await e.openPromise(A, t, r)),
    )
}

openSync(e, t, r) {
    return this.makeCallSync(
        e,
        () => this.baseFs.openSync(e, t, r),
        (e, { subPath: A }) => this.remapFd(e, e.openSync(A, t, r)),
    )
}

async opendirPromise(e, t) {
    return await this.makeCallPromise(
        e,
        async () => await this.baseFs.opendirPromise(e, t),
        async (e, { subPath: r }) =>
            await e.opendirPromise(r, t),
            { requireSubpath: !1 },
    )
}

opendirSync(e, t) {
    return this.makeCallSync(
        e,
        () => this.baseFs.opendirSync(e, t),
        (e, { subPath: r }) =>
            e.opendirSync(r, t),
    )
}
async readPromise(e, t, r, A, n) {
    if (0 == (e & c))
        return await this.baseFs.readPromise(e, t, r, A, n)
    const o = this.fdMap.get(e)
    if (void 0 === o)
        throw Object.assign(
            new Error('EBADF: bad file descriptor, read'),
            { code: 'EBADF' },
        )
    const [i, s] = o
    return await i.readPromise(s, t, r, A, n)
}

readSync(e, t, r, A, n) {
    if (0 == (e & c)) return this.baseFs.readSync(e, t, r, A, n)
    const o = this.fdMap.get(e)
    if (void 0 === o)
        throw Object.assign(
            new Error('EBADF: bad file descriptor, read'),
            { code: 'EBADF' },
        )
    const [i, s] = o
    return i.readSync(s, t, r, A, n)
}

async writePromise(e, t, r, A, n) {
    if (0 == (e & c))
        return 'string' === typeof t
            ? await this.baseFs.writePromise(e, t, r)
            : await this.baseFs.writePromise(e, t, r, A, n)
    const o = this.fdMap.get(e)
    if (void 0 === o)
        throw Object.assign(
            new Error('EBADF: bad file descriptor, write'),
            { code: 'EBADF' },
        )
    const [i, s] = o
    return 'string' === typeof t
        ? await i.writePromise(s, t, r)
        : await i.writePromise(s, t, r, A, n)
}

writeSync(e, t, r, A, n) {
    if (0 == (e & c))
        return 'string' === typeof t
? this.baseFs.writeSync(e, t, r)
: this.baseFs.writeSync(e, t, r, A, n)
const o = this.fdMap.get(e)
if (void 0 === o)
  throw Object.assign(
    new Error('EBADF: bad file descriptor, write'),
    { code: 'EBADF' },
  )
const [i, s] = o
return 'string' === typeof t
? i.writeSync(s, t, r)
: i.writeSync(s, t, r, A, n)
}
async closePromise(e) {
  if (0 == (e & c)) return await this.baseFs.closePromise(e)
  const t = this.fdMap.get(e)
  if (void 0 === t)
    throw Object.assign(
      new Error('EBADF: bad file descriptor, close'),
      { code: 'EBADF' },
    )
  this.fdMap.delete(e)
  const [r, A] = t
  return await r.closePromise(A)
}
closeSync(e) {
  if (0 == (e & c)) return this.baseFs.closeSync(e)
  const t = this.fdMap.get(e)
  if (void 0 === t)
    throw Object.assign(
      new Error('EBADF: bad file descriptor, close'),
      { code: 'EBADF' },
    )
  this.fdMap.delete(e)
  const [r, A] = t
  return r.closeSync(A)
}
createReadStream(e, t) {
  return null === e
? this.baseFs.createReadStream(e, t)
: this.makeCallSync(
    e,
    () => this.baseFs.createReadStream(e, t),
    (e, { subPath: r }) => e.createReadStream(r, t),
  )
}
createWriteStream(e, t) {
  return null === e
async realpathPromise(e) {
  return await this.makeCallPromise(e,
    async () => await this.baseFs.realpathPromise(e),
    async (e, { archivePath: t, subPath: r }) => {
      let A = this.realPaths.get(t)
      return (void 0 === A &&
        ((A = await this.baseFs.realpathPromise(t)),
          this.realPaths.set(t, A)),
        this.pathUtils.join(A,
          this.pathUtils.relative(a.LZ.root,
            await e.realpathPromise(r)),
          )
        ),
      )
    },
  )
}

realpathSync(e) {
  return this.makeCallSync(e,
    () => this.baseFs.realpathSync(e),
    (e, { archivePath: t, subPath: r }) => {
      let A = this.realPaths.get(t)
      return (void 0 === A &&
        ((A = this.baseFs.realpathSync(t)),
          this.realPaths.set(t, A)),
        this.pathUtils.join(A,
          this.pathUtils.relative(a.LZ.root, e.realpathSync(r)),
          )
        ),
      )
    },
  )
}

async existsPromise(e) {
  return await this.makeCallPromise(e,
    () => this.baseFs.existsSync(e),
    (e, { archivePath: t, subPath: r }) => {
      let A = this.realPaths.get(t)
      return (void 0 === A &&
        ((A = this.baseFs.existsSync(t)),
          this.realPaths.set(t, A)),
        this.pathUtils.join(A,
          this.pathUtils.relative(a.LZ.root, e.existsSync(r)),
          )
        ),
      )
    },
  )
}
existsSync(e) {
    return this.makeCallSync(
        e,
        () => this.baseFs.existsSync(e),
        (e, { subPath: t }) => e.existsSync(t),
    )
}

async accessPromise(e, t) {
    return await this.makeCallPromise(
        e,
        async () => await this.baseFs.accessPromise(e, t),
        async (e, { subPath: r }) => await e.accessPromise(r, t),
    )
}

accessSync(e, t) {
    return this.makeCallSync(
        e,
        () => this.baseFs.accessSync(e, t),
        (e, { subPath: r }) => e.accessSync(r, t),
    )
}

async statPromise(e) {
    return await this.makeCallPromise(
        e,
        async () => await this.baseFs.statPromise(e),
        async (e, { subPath: t }) => await e.statPromise(t),
    )
}

statSync(e) {
    return this.makeCallSync(
        e,
        () => this.baseFs.statSync(e),
        (e, { subPath: t }) => e.statSync(t),
    )
}

async lstatPromise(e) {
    return await this.makeCallPromise(
        e,
        async () => await this.baseFs.lstatPromise(e),
        async (e, { subPath: t }) => await e.lstatPromise(t),
    )
}

lstatSync(e) {
return this.makeCallSync(e, () => this.baseFs.lstatSync(e), (e, { subPath: t }) => e.lstatSync(t),)
async chmodPromise(e, t) {
  return await this.makeCallPromise(e, async () => await this.baseFs.chmodPromise(e, t), async (e, { subPath: r }) => await e.chmodPromise(r, t),)
}
chmodSync(e, t) {
  return this.makeCallSync(e, () => this.baseFs.chmodSync(e, t), (e, { subPath: r }) => e.chmodSync(r, t),)
}
async chownPromise(e, t, r) {
  return await this.makeCallPromise(e, async () => await this.baseFs.chownPromise(e, t, r), async (e, { subPath: A }) => await e.chownPromise(A, t, r),)
}
chownSync(e, t, r) {
  return this.makeCallSync(e, () => this.baseFs.chownSync(e, t, r), (e, { subPath: A }) => e.chownSync(A, t, r),)
}
async renamePromise(e, t) {
  return await this.makeCallPromise(e, async () => await this.makeCallPromise(t, async () => await this.baseFs.renamePromise(e, t), async () => { throw Object.assign(new Error('EEXDEV: cross-device link not permitted'), { code: 'EEXDEV' }); },));
}
async (e, { subPath: r }) =>
await this.makeCallPromise(
  t,
  async () => {
    throw Object.assign(
      new Error('EEXDEV: cross-device link not permitted'),
      { code: 'EEXDEV' },
    );
  },
);,
async (t, { subPath: A }) => {
  if (e !== t)
    throw Object.assign(
      new Error('EEXDEV: cross-device link not permitted'),
      { code: 'EEXDEV' },
    );
  return await e.renamePromise(r, A)
},
);
)
renameSync(e, t) {
  return this.makeCallSync(
    e,
    () =>
      this.makeCallSync(
        t,
        () =>
          this.baseFs.renameSync(e, t),
        async () => {
          throw Object.assign(
            new Error('EEXDEV: cross-device link not permitted'),
            { code: 'EEXDEV' },
          );
        },
      ),
    (e, { subPath: r }) =>
      this.makeCallSync(
        t,
        () => {
          throw Object.assign(
            new Error('EEXDEV: cross-device link not permitted'),
            { code: 'EEXDEV' },
          );
        },
      ),
    (t, { subPath: A }) => {
      if (e !== t)
        throw Object.assign(
          new Error('EEXDEV: cross-device link not permitted'),
          { code: 'EEXDEV' },
        );
    },
  );
}
```javascript
async copyFilePromise(e, t, r = 0) {
    const n = async (e, t, n, o) => {
        if (0 != (r & A.constants.COPYFILE_FICLONE_FORCE))
            throw Object.assign(
                new Error(
                    'EXDEV: cross-device clone not permitted, copyfile '${t}' -> '${o}'
                ),
                { code: 'EXDEV' }
            );
        if (r & A.constants.COPYFILE_EXCL && (await this.existsPromise(t)))
            throw Object.assign(
                new Error(
                    'EEXIST: file already exists, copyfile '${t}' -> '${o}'
                ),
                { code: 'EEXIST' }
            );
        let i
        try {
            i = await e.readFilePromise(t)
        } catch (e) {
            throw Object.assign(
                new Error(
                    'EINVAL: invalid argument, copyfile '${t}' -> '${o}'
                ),
                { code: 'EINVAL' }
            );
        }
        await n.writeFilePromise(o, i)
    }
    return await this.makeCallPromise(
        e,
        async () =>
            await this.makeCallPromise(
                t,
                async () => await this.baseFs.copyFilePromise(e, t, r),
                async (t, { subPath: r }) => await n(this.baseFs, e, t, r),
                async (e, { subPath: A }) =>
                    await this.makeCallPromise(
```
async () => await n(e, A, this.baseFs, t),
async (t, { subPath: o }) =>
  e !== t
    ? await n(e, A, t, o)
    : await e.copyFilePromise(A, o, r),
);,
)
}
copyFileSync(e, t, r = 0) {
  const n = (e, t, n, o) => {
    if (0 != (r & A.constants.COPYFILE_FICLONE_FORCE))
      throw Object.assign(
        new Error(
          `EXDEV: cross-device clone not permitted, copyfile '${t}' -> '${o}'`,
        ),
        { code: 'EXDEV' },
      )
    if (r & A.constants.COPYFILE_EXCL && this.existsSync(t))
      throw Object.assign(
        new Error(
          `EEXIST: file already exists, copyfile '${t}' -> '${o}'`,
        ),
        { code: 'EEXIST' },
      )
    let i
    try {
      i = e.readFileSync(t)
    } catch (e) {
      throw Object.assign(
        new Error(
          `EINVAL: invalid argument, copyfile '${t}' -> '${o}'`,
        ),
        { code: 'EINVAL' },
      )
    }
    n.writeFileSync(o, i)
  }
  return this.makeCallSync(
    e,
    () =>
      this.makeCallSync(
        t,
        () => this.baseFs.copyFileSync(e, t, r),
        (t, { subPath: r }) => n(this.baseFs, e, t, r),
      ),
    (e, { subPath: A }) =>
      this.makeCallSync(

async appendFilePromise(e, t, r) {
  return await this.makeCallPromise(
    e,
    async () => await this.baseFs.appendFilePromise(e, t, r),
    async (e, { subPath: A }) => await e.appendFilePromise(A, t, r),
  )
}

appendFileSync(e, t, r) {
  return this.makeCallSync(
    e,
    () => this.baseFs.appendFileSync(e, t, r),
    (e, { subPath: A }) => e.appendFileSync(A, t, r),
  )
}

async writeFilePromise(e, t, r) {
  return await this.makeCallPromise(
    e,
    async () => await this.baseFs.writeFilePromise(e, t, r),
    async (e, { subPath: A }) => await e.writeFilePromise(A, t, r),
  )
}

writeFileSync(e, t, r) {
  return this.makeCallSync(
    e,
    () => this.baseFs.writeFileSync(e, t, r),
    (e, { subPath: A }) => e.writeFileSync(A, t, r),
  )
}

async unlinkPromise(e) {
  return await this.makeCallPromise(
    e,
    async () => await this.baseFs.unlinkPromise(e),
    async (e, { subPath: t }) => await e.unlinkPromise(t),
  )
}

unlinkSync(e) {
  return this.makeCallSync(
    e,
    () => this.baseFs.unlinkSync(e),
    (e, { subPath: t }) => e.unlinkSync(t),
  )
}
async utimesPromise(e, t, r) {
    return await this.makeCallPromise(
        e,
        async () => await this.baseFs.utimesPromise(e, t, r),
        async (e, { subPath: A }) => await e.utimesPromise(A, t, r),
    )
}

utimesSync(e, t, r) {
    return this.makeCallSync(
        e,
        () => this.baseFs.utimesSync(e, t, r),
        (e, { subPath: A }) => e.utimesSync(A, t, r),
    )
}

async mkdirPromise(e, t) {
    return await this.makeCallPromise(
        e,
        async () => await this.baseFs.mkdirPromise(e, t),
        async (e, { subPath: r }) => await e.mkdirPromise(r, t),
    )
}

mkdirSync(e, t) {
    return this.makeCallSync(
        e,
        () => this.baseFs.mkdirSync(e, t),
        (e, { subPath: r }) => e.mkdirSync(r, t),
    )
}

async rmdirPromise(e, t) {
    return await this.makeCallPromise(
        e,
        async () => await this.baseFs.rmdirPromise(e, t),
        async (e, { subPath: r }) => await e.rmdirPromise(r, t),
    )
}

rmdirSync(e, t) {
    return this.makeCallSync(
        e,
        () => this.baseFs.rmdirSync(e, t),
        (e, { subPath: r }) => e.rmdirSync(r, t),
    )
}

async linkPromise(e, t) {
    return await this.makeCallPromise(
        e,
        async () => await this.baseFs.linkPromise(e, t),
        async (e, { subPath: r }) => await e.linkPromise(r, t),
    )
}

linkSync(e, t) {
    return this.makeCallSync(
        e,
        () => this.baseFs.linkSync(e, t),
        (e, { subPath: r }) => e.linkSync(r, t),
    )
}
linkSync(e, t) {
    return this.makeCallSync(
        t,
        () => this.baseFs.linkSync(e, t),
        (t, { subPath: r }) => t.linkSync(e, r),
    )
}

async symlinkPromise(e, t, r) {
    return await this.makeCallPromise(
        t,
        async () => await this.baseFs.symlinkPromise(e, t, r),
        async (t, { subPath: r }) => await t.symlinkPromise(e, r),
    )
}

symlinkSync(e, t, r) {
    return this.makeCallSync(
        t,
        () => this.baseFs.symlinkSync(e, t, r),
        (t, { subPath: r }) => t.symlinkSync(e, r),
    )
}

async readFilePromise(e, t) {
    return this.makeCallPromise(
        e,
        async () => {
            switch (t) {
                case 'utf8':
                    default:
                        return await this.baseFs.readFilePromise(e, t)
            }
        },
        async (e, { subPath: r }) => await e.readFilePromise(r, t),
    )
}

readFileSync(e, t) {
    return this.makeCallSync(
        e,
        () => {
            switch (t) {
                case 'utf8':
                    default:
                        return this.baseFs.readFileSync(e, t)
            }
        },
        (e, { subPath: r }) => e.readFileSync(r, t),
    )
}
async readdirPromise(e, { withFileTypes: t } = {}) {
    return await this.makeCallPromise(
        e,
        async () =>
            await this.baseFs.readdirPromise(e, { withFileTypes: t }),
        async (e, { subPath: r }) =>
            await e.readdirPromise(r, { withFileTypes: t }),
        { requireSubpath: !1 },
    )
}

dirreadSync(e, { withFileTypes: t } = {}) {
    return this.makeCallSync(
        e,
        () => this.baseFs.readdirSync(e, { withFileTypes: t }),
        (e, { subPath: r }) => e.readdirSync(r, { withFileTypes: t }),
        { requireSubpath: !1 },
    )
}

async readlinkPromise(e) {
    return await this.makeCallPromise(
        e,
        async () => await this.baseFs.readlinkPromise(e),
        async (e, { subPath: t }) => await e.readlinkPromise(t),
    )
}

readlinkSync(e) {
    return this.makeCallSync(
        e,
        () => this.baseFs.readlinkSync(e),
        (e, { subPath: t }) => e.readlinkSync(t),
    )
}

async truncatePromise(e, t) {
    return await this.makeCallPromise(
        e,
        async () => await this.baseFs.truncatePromise(e, t),
        async (e, { subPath: r }) => await e.truncatePromise(r, t),
    )
}

truncateSync(e, t) {
    return this.makeCallSync(
        e,
        () => this.baseFs.truncateSync(e, t),
        (e, { subPath: r }) => e.truncateSync(r, t),
    )
}

watch(e, t, r) {
}
return this.makeCallSync(e, () => this.baseFs.watch(e, t, r), (e, { subPath: A }) => e.watch(A, t, r),)
}

watchFile(e, t, r) {
  return this.makeCallSync(e, () => this.baseFs.watchFile(e, t, r), () => (0, s._x)(this, e, t, r),)
}

unwatchFile(e, t) {
  return this.makeCallSync(e, () => this.baseFs.unwatchFile(e, t), () => (0, s.nd)(this, e, t),)
}

async makeCallPromise(e, t, r, { requireSubpath: A = !0 } = {}) {
  if ('string' != typeof e) return await t()
  const n = this.resolve(e),
    o = this.findZip(n)
  return o
    ? A && '/' === o.subPath
    ? await t()
    : await this.getZipPromise(o.archivePath, async (e) => await r(e, o), )
    : await t()
}

makeCallSync(e, t, r, { requireSubpath: A = !0 } = {}) {
  if ('string' != typeof e) return t()
  const n = this.resolve(e),
    o = this.findZip(n)
  return o
    ? A && '/' === o.subPath
    ? t()
    : this.getZipSync(o.archivePath, (e) => r(e, o))
    : t()
}

findZip(e) {
  if (this.filter && !this.filter.test(e)) return null
  let t = ''
  for (;;) {
    const r = g.exec(e.substr(t.length))
    t += r[0]
  }
  return { path: e, subPath: t }
}
if (!r) return null
if (
  ((t = this.pathUtils.join(t, r[0])), !1 === this.isZip.has(t))
) {
  if (this.notZip.has(t)) continue
  try {
    if (!this.baseFs.lstatSync(t).isFile()) {
      this.notZip.add(t)
      continue
    }
  } catch (e) {
    return null
  }
  this.isZip.add(t)
}
return {
  archivePath: t,
  subPath: this.pathUtils.join(a.LZ.root, e.substr(t.length)),
}
}

limitOpenFiles(e) {
  if (null === this.zipInstances) return
  const t = Date.now()
  let r = t + this.maxAge,
  A = null === e ? 0 : this.zipInstances.size - e
  for (const [n, { zipFs: o, expiresAt: i, refCount: s }] of this.zipInstances.entries()) {
    if (0 === s && !o.hasOpenFileHandles())
      if (t >= i)
        o.saveAndClose(), this.zipInstances.delete(n), (A -= 1)
      else {
        if (null === e || A <= 0) {
          r = i
          break
        }
        o.saveAndClose(), this.zipInstances.delete(n), (A -= 1)
      }
  }
  null === this.limitOpenFilesTimeout &&
  (null === e && this.zipInstances.size > 0) || null !== e &&
  (this.limitOpenFilesTimeout = setTimeout(() => {
    this.limitOpenFilesTimeout = null), this.limitOpenFiles(null)
  }, r - t).unref())
}
async getZipPromise(e, t) {
  const r = async () => {

baseFs: this.baseFs,
libzip: this.libzip,
readOnly: this.readOnlyArchives,
stats: await this.baseFs.statPromise(e),
})
if (this.zipInstances) {
  let A = this.zipInstances.get(e)
  if (!A) {
    const t = await r()
    ;(A = this.zipInstances.get(e)),
    A || (A = { zipFs: new i.d(e, t), expiresAt: 0, refCount: 0 })
  }
  this.zipInstances.delete(e),
  this.limitOpenFiles(this.maxOpenFiles - 1),
  this.zipInstances.set(e, A),
  (A.expiresAt = Date.now() + this.maxAge),
  (A.refCount += 1)
  try {
    return await t(A.zipFs)
  } finally {
    A.refCount -= 1
  }
} else {
  const A = new i.d(e, await r())
  try {
    return await t(A)
  } finally {
    A.saveAndClose()
  }
}
}
getZipSync(e, t) {
const r = () => ({
  baseFs: this.baseFs,
  libzip: this.libzip,
  readOnly: this.readOnlyArchives,
  stats: this.baseFs.statSync(e),
})
if (this.zipInstances) {
  let A = this.zipInstances.get(e)
  return (A ||
    (A = { zipFs: new i.d(e, r()), expiresAt: 0, refCount: 0 })),
  this.zipInstances.delete(e),
  this.limitOpenFiles(this.maxOpenFiles - 1),
  this.zipInstances.set(e, A),
  (A.expiresAt = Date.now() + this.maxAge),
  t(A.zipFs)
const A = new i.d(e, r())
try {
    return t(A)
} finally {
    A.saveAndClose()
}
}
}
}
,
19697: (e, t, r) => {
    'use strict'
    r.d(t, { a: () => o })
    var A = r(26984)
    class n {
        constructor(e, t, r = {}) {
            this.path = e,
            this.nextDirent = t,
            this.opts = r,
            this.closed = !1
        }
        throwIfClosed() {
            if (this.closed) throw A.Xh()
        }
        async *[Symbol.asyncIterator]() {
            try {
                let e
                for (; null !== (e = await this.read()); ) yield e
            } finally {
                await this.close()
            }
        }
        read(e) {
            const t = this.readSync()
            return void 0 !== e ? e(null, t) : Promise.resolve(t)
        }
        readSync() {
            return this.throwIfClosed(), this.nextDirent()
        }
        close(e) {
            return this.closeSync(), void 0 !== e ? e(null) : Promise.resolve()
        }
        closeSync() {
            var e, t
            this.throwIfClosed()},
}
null === (t = (e = this.opts).onClose) ||
  void 0 === t ||
  t.call(e),
  (this.closed = !0)
}
}

function o(e, t, r, A) {
  return new n(
    t,
    () => {
      const A = r.shift()
      return void 0 === A
        ? null
        : Object.assign(e.statSync(e.pathUtils.join(t, A)), { name: A })
    },
    A,
  );
}

38783: (e, t, r) => {
  'use strict'
  r.d(t, { L: () => u, nd: () => l, _x: () => g })
  var A,
  n,
  o = r(28614),
  i = r(65760)
  function s(e, t) {
    if (e !== t)
      throw new Error(
        `Invalid StatWatcher status: expected '${t}', got '${e}'`,
      )
  }
  !(function (e) {
    (e.Change = 'change'), (e.Stop = 'stop')
  })(A || (A = {})),
  (function (e) {
    (e.Ready = 'ready'),
    (e.Running = 'running'),
    (e.Stopped = 'stopped')
  })(n || (n = {}))
  class a extends o.EventEmitter {
    constructor(e, t, { bigint: r = !1 } = {}) {
      super(),
      (this.status = n.Ready),
      (this.changeListeners = new Map()),
      (this.startTimeout = null),
      (this.fakeFs = e),
      (this.path = t),
```javascript
static create(e, t, r) {
    const A = new a(e, t, r)
    return A.start(), A
}
start() {
    s(this.status, n.Ready),
    (this.status = n.Running),
    (this.startTimeout = setTimeout(() => {
        :this.startTimeout = null),
    this.fakeFs.existsSync(this.path) ||
    this.emit(A.Change, this.lastStats, this.lastStats)
    }, 3))
}
stop() {
    s(this.status, n.Running),
    (this.status = n.Stopped),
    null !== this.startTimeout &&
    (clearTimeout(this.startTimeout), (this.startTimeout = null)),
    this.emit(A.Stop)
}
stat() {
    try {
        return this.fakeFs.statSync(this.path)
    } catch (e) {
        if ('ENOENT' === e.code) return i.makeEmptyStats()
        throw e
    }
}
makeInterval(e) {
    const t = setInterval(() => {
        const e = this.stat(),
        t = this.lastStats
        i.areStatsEqual(e, t) ||
        ((this.lastStats = e), this.emit(A.Change, e, t))
        }, e.interval)
        return e.persistent ? t : t.unref()
}
registerChangeListener(e, t) {
    this.addListener(A.Change, e),
    this.changeListeners.set(e, this.makeInterval(t))
}
unregisterChangeListener(e) {
    this.removeListener(A.Change, e)
    const t = this.changeListeners.get(e)
    void 0 !== t && clearInterval(t), this.changeListeners.delete(e)
```
unregisterAllChangeListeners() {
    for (const e of this.changeListeners.keys())
        this.unregisterChangeListener(e)
}

hasChangeListeners() {
    return this.changeListeners.size > 0
}

ref() {
    for (const e of this.changeListeners.values()) e.ref()
    return this
}

unref() {
    for (const e of this.changeListeners.values()) e.unref()
    return this
}

const c = new WeakMap()

function g(e, t, r, A) {
    let n, o, i, s
    switch (typeof r) {
        case 'function':
            (n = !1), (o = !0), (i = 5007), (s = r)
            break
        default:
            (s = A)
            let g = c.get(e)
            void 0 === g && c.set(e, (g = new Map()))
            let l = g.get(t)
            return (
                void 0 === l && ((l = a.create(e, t, { bigint: n })), g.set(t, l)),
                l.registerChangeListener(s, { persistent: o, interval: i }),
                l
            )
    }
    let g = c.get(e)
    void 0 === g && c.set(e, (g = new Map()))
    let l = g.get(t)
    return (  
        void 0 === l && ((l = a.create(e, t, { bigint: n })), g.set(t, l)),  
        l.registerChangeListener(s, { persistent: o, interval: i }),  
        l
    )
}

function l(e, t, r) {
    const A = c.get(e)
    if (void 0 === A) return
    const n = A.get(t)
    void 0 !== n && (void 0 === r ? n.unregisterAllChangeListeners()  
        : n.unregisterChangeListener(r),  
        n.hasChangeListeners() || (n.stop(), A.delete(t)))
}

function u(e) {  
}
const t = c.get(e)
if (void 0 !== t) for (const r of t.keys()) l(e, r)
}
,
22004: (e, t, r) => {
  'use strict'
  r.d(t, { wK: () => A, QB: () => n, Pe: () => o, Zv: () => i })
  const A = 61440,
    n = 16384,
    o = 32768,
    i = 40960
},
26984: (e, t, r) => {
  'use strict'
  function A(e, t) {
    return Object.assign(new Error(`${e}: ${t}`), { code: e })
  }
  function n(e) {
    return A('EBUSY', e)
  }
  function o(e, t) {
    return A('ENOSYS', `${e}, ${t}`)
  }
  function i(e) {
    return A('EINVAL', 'invalid argument, ' + e)
  }
  function s(e) {
    return A('EBADF', 'bad file descriptor, ' + e)
  }
  function a(e) {
    return A('ENOENT', 'no such file or directory, ' + e)
  }
  function c(e) {
    return A('ENOTDIR', 'not a directory, ' + e)
  }
  function g(e) {
    return A('EISDIR', 'illegal operation on a directory, ' + e)
  }
  function l(e) {
    return A('EXIST', 'file already exists, ' + e)
  }
  function u(e) {
    return A('EROFS', 'read-only filesystem, ' + e)
  }
  function h(e) {
    return A('ENOTEMPTY', 'directory not empty, ' + e)
  }
  function p(e) {
return A('EOPNOTSUPP', 'operation not supported, ' + e)
}

function d() {
    return A('ERR_DIR_CLOSED', 'Directory handle was closed')
}

t.d(t, {
    Vw: () => n,
    bk: () => o,
    hq: () => i,
    Ch: () => s,
    z6: () => a,
    Ab: () => c,
    GA: () => g,
    eT: () => l,
    YW: () => u,
    re: () => h,
    Hs: () => p,
    Xh: () => d,
    Yn: () => C,
})

class C extends Error {
    constructor(e, t) {
        super(e), (this.name = 'Libzip Error'), (this.code = t)
    }
}

43896: (e, t, r) => {
    'use strict'
    r.r(t),
    r.d(t, {
        AliasFS: () => u.K,
        CwdFS: () => h.M,
        DEFAULT_COMPRESSION_LEVEL: () => l.k,
        FakeFS: () => g.uY,
        Filename: () => s.QS,
        JailFS: () => p.n,
        LazyFS: () => d.v,
        NoFS: () => f,
        NodeFS: () => i.S,
        PortablePath: () => s.LZ,
        PosixFS: () => I.i,
        ProxiedFS: () => E.p,
        VirtualFS: () => B.p,
        ZipFS: () => l.d,
        ZipOpenFS: () => y.A,
        extendFs: () => Q,
        normalizeLineEndings: () => g.qH,
        npath: () => s.cS,
opendir: () => c.a,
patchFs: () => w,
ppath: () => s.y1,
statUtils: () => a,
toFilename: () => s.Zu,
xf: () => S,
})

var A = r(12087),
n = r.n(A),
o = r(31669),
i = r(78420),
s = r(46009),
a = r(65760),
c = r(19697),
g = r(5944),
l = r(90739),
u = r(14626),
h = r(75448),
p = r(10489),
d = r(15037)
const C = () =>
Object.assign(new Error('ENOSYS: unsupported filesystem access'), { 
  code: 'ENOSYS',
})

class f extends g.uY {
  constructor() {
    super(s.y1)
  }
  getExtractHint() {
    throw C()
  }
  getRealPath() {
    throw C()
  }
  resolve() {
    throw C()
  }
  async openPromise() {
    throw C()
  }
  openSync() {
    throw C()
  }
  async opendirPromise() {
    throw C()
  }
  opendirSync() {
    throw C()
  }
}
async readPromise() {
    throw C()
}
readSync() {
    throw C()
}
async writePromise() {
    throw C()
}
writeSync() {
    throw C()
}
async closePromise() {
    throw C()
}
closeSync() {
    throw C()
}
createWriteStream() {
    throw C()
}
createReadStream() {
    throw C()
}
async realpathPromise() {
    throw C()
}
realpathSync() {
    throw C()
}
async readdirPromise() {
    throw C()
}
readdirSync() {
    throw C()
}
async existsPromise(e) {
    throw C()
}
existsSync(e) {
    throw C()
}
async accessPromise() {
    throw C()
}
accessSync() {
    throw C()
async statPromise() {
    throw C()
}
statSync() {
    throw C()
}
async lstatPromise(e) {
    throw C()
}
lstatSync(e) {
    throw C()
}
async chmodPromise() {
    throw C()
}
chmodSync() {
    throw C()
}
async chownPromise() {
    throw C()
}
chownSync() {
    throw C()
}
async mkdirPromise() {
    throw C()
}
mkdirSync() {
    throw C()
}
async rmdirPromise() {
    throw C()
}
rmdirSync() {
    throw C()
}
async linkPromise() {
    throw C()
}
linkSync() {
    throw C()
}
async symlinkPromise() {
    throw C()
}
symlinkSync() {
    throw C()
async renamePromise() {
    throw C()
}
renameSync() {
    throw C()
}
async copyFilePromise() {
    throw C()
}
copyFileSync() {
    throw C()
}
async appendFilePromise() {
    throw C()
}
appendFileSync() {
    throw C()
}
async writeFilePromise() {
    throw C()
}
writeFileSync() {
    throw C()
}
async unlinkPromise() {
    throw C()
}
unlinkSync() {
    throw C()
}
async utimesPromise() {
    throw C()
}
utimesSync() {
    throw C()
}
async readFilePromise() {
    throw C()
}
readFileSync() {
    throw C()
}
async readlinkPromise() {
    throw C()
}
readlinkSync() {
    throw C()
}
async truncatePromise() {
  throw C()
}

truncateSync() {
  throw C()
}

watch() {
  throw C()
}

watchFile() {
  throw C()
}

unwatchFile() {
  throw C()
}

f.instance = new f()

var I = r(39725),
E = r(42096),
B = r(17674),
y = r(53660)

function m(e) {
  const t = s.cS.toPortablePath(n().tmpdir()),
    r = Math.ceil(4294967296 * Math.random()).toString(16).padStart(8, '0')
  return s.y1.join(t, `${e}${r}`)
}

function w(e, t) {
  const r = new Set([`
    'accessSync',
    'appendFileSync',
    'createReadStream',
    'chmodSync',
    'chownSync',
    'closeSync',
    'copyFileSync',
    'linkSync',
    'lstatSync',
    'lutimesSync',
    'mkdirSync',
    'openSync',
    'opendirSync',
    'readSync',
    'readlinkSync',
    'readFileSync',
    'readdirSync',
    'readWriteSync',
    'unsetlstatSync',
    'writeFileSync',
    'writeStreamSync',
    'writeSync'
  ]);
'readlinkSync',
'realpathSync',
'renameSync',
'rmdirSync',
'statSync',
'symlinkSync',
'truncateSync',
'unlinkSync',
'unwatchFile',
'utimesSync',
'watch',
'watchFile',
'writeFileSync',
'writeSync',
])
A = new Set([}
'accessPromise',
'appendFilePromise',
'chmodPromise',
'chownPromise',
'closePromise',
'copyFilePromise',
'linkPromise',
'lstatPromise',
'lutimesPromise',
'mkdirPromise',
'openPromise',
'opendirPromise',
'readdirPromise',
'realpathPromise',
'readdirPromise',
'readlinkPromise',
'renamePromise',
'rmdirPromise',
'statPromise',
'symlinkPromise',
'truncatePromise',
'unlinkPromise',
'utimesPromise',
'writeFilePromise',
'writeSync',
])

n = new Set([}
'appendFilePromise',
'chmodPromise',
'chownPromise',
'closePromise',


{'readPromise',
'readFilePromise',
'statPromise',
'truncatePromise',
'utimesPromise',
'writePromise',
'writeFilePromise',
},
i = (e, t, r) => {
    const A = e[t]
    ;(e[t] = r),
    void 0 !== (null == A ? void 0 : A[o.promisify.custom]) &&
    (r[o.promisify.custom] = A[o.promisify.custom])
}
i(e, 'exists', (e, ...r) => {
    const A = 'function' == typeof r[r.length - 1] ? r.pop() : () => {}
    process.nextTick(() => {
        t.existsPromise(e).then(
            (e) => {
                A(e)
            },
            () => {
                A(!1)
            }
        )
    })
}),
i(e, 'read', (e, r, ...A) => {
    process.nextTick(() => {
        t.readPromise(e, r, ...A).then(
            (e) => {
                n(null, e, r)
            },
            (e) => {
                n(e)
            }
        )
    })
}),
for (const r of A) {
    const A = r.replace(/Promise$/, "")
    if (void 0 === e[A]) continue
    const n = t[r]
    if (void 0 === n) continue
    i(e, A, (...e) => {
        const r =
'function' == typeof e[e.length - 1] ? e.pop() : => {} process.nextTick() => {
  n.apply(t, e).then(
    (e) => {
      r(null, e)
    },
    (e) => {
      r(e)
    },
  )
})
)
)}
})
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)
for (const r of n) {
    const A = r.replace(/Promise$/, ","),
    n = t[r]
    void 0 !== n &&
    if(e.prototype, A, function (...e) {
        return n.call(t, this.fd, ...e)
    })
}

i(o, 'open', async (...r) => {
    const A = await t.openPromise(...r)
    return new e(A)
})

}

function Q(e, t) {
    const r = Object.create(e)
    return w(r, t), r
}

const D = new Set()
let b = !1
function v() {
    b ||
    ((b = !0),
    process.once('exit', () => {
        S.rmtempSync()
    })))
}

const S = Object.assign(new i.S(), {
    detachTemp(e) {
        D.delete(e)
    },
    mktempSync(e) {
        for (v(v); ; ) {
            const t = m('xfs-')
            try {
                this.mkdirSync(t)
            } catch (e) {
                if ('EEXIST' === e.code) continue
                throw e
            }
            const r = this.realpathSync(t)
            if ((D.add(r, void 0 === e)) return t
try {
    return e(r)
} finally {
    if (D.has(r)) {
        D.delete(r)
        try {
            this.removeSync(r)
        } catch (e) {}
    }
}
}

async mktempPromise(e) {
    for (v(); ; ) {
        const t = m('xfs-')
        try {
            await this.mkdirPromise(t)
        } catch (e) {
            if ('EEXIST' === e.code) continue
            throw e
        }
        const r = await this.realpathPromise(t)
        if ((D.add(r), void 0 === e)) return r
        try {
            return await e(r)
        } finally {
            if (D.has(r)) {
                D.delete(r)
                try {
                    await this.removePromise(r)
                } catch (e) {}
            }
        }
    },
}

async rmtempPromise() {
    await Promise.all(
        Array.from(D.values()).map(async (e) => {
            try {
                await S.removePromise(e, { maxRetries: 0 }), D.delete(e)
            } catch (e) {}
        }),
    ),
}

rmtempSync() {
    for (const e of D) {
        try {
            S.removeSync(e), D.delete(e)
```javascript
'use strict'

const i = { root: '/', dot: '.' },
s = {
  nodeModules: 'node_modules',
  manifest: 'package.json',
  lockfile: 'yarn.lock',
  pnpJs: '.pnp.js',
  rc: '.yarnrc.yml',
},
a = Object.create(o()),
c = Object.create(o().posix)
!(function (e) {
  (e[(e.File = 0)] = 'File'),
  (e[(e.Portable = 1)] = 'Portable'),
  (e[(e.Native = 2)] = 'Native')
})(A || (A = {}))
const i = [ root: '/', dot: '.' ],
s = {
  nodeModules: 'node_modules',
  manifest: 'package.json',
  lockfile: 'yarn.lock',
  pnpJs: '.pnp.js',
  rc: '.yarnrc.yml',
},
a = Object.create(o()),
c = Object.create(o().posix)
:(a.cwd = () => process.cwd()),
(c.cwd = () => C(process.cwd())),
(c.resolve = (...e) =>
  e.length > 0 && c.isAbsolute(e[0])
    ? o().posix.resolve(...e)
    : o().posix.resolve(c.cwd(), ...e))
const g = function (e, t, r) {
  return (t = e.normalize(t)) === (r = e.normalize(r))
    ? '.'
    : (t.endsWith(e.sep) || (t += e.sep),
      r.startsWith(t) ? r.slice(t.length) : null)
 },
:(a.fromPortablePath = d),
(a.toPortablePath = C),
(a.contains = (e, t) => g(a, e, t)),
(c.contains = (e, t) => g(c, e, t))
}
cybersecurity
```

Open Source Used in Cisco Cloud Mailbox Defense - CMD (Project Raptor) April 2021 20519
const l = /^([a-zA-Z]:\*)$/;
un = /^\\\([.\]\)?(.*)$/;
h = /^/[a-zA-Z]:\*)$/;
p = /^\unc/(\dot\v)\?[.\]\)?(\*\))/

function d(e) {
    if ("win32" !== process.platform) return e
    if (e.match(h)) e = e.replace(h, "$1")
    else {
        if (!e.match(p)) return e
        e = e.replace(p, (e, t, r) => `\\${t ? '.\' : ''}${r}`)
    }
    return e.replace(/\//g, '\')
}

function C(e) {
    return 'win32' !== process.platform
        ? e
        : (e.match(l)
            ? (e = e.replace(l, '/$1'))
            : e.match(u) &&
            (e = e.replace(u,
                (e, t, r) => `/unc/${t ? '.dot/' : ''}${r}`,
            )),
            e.replace(/\//g, '/'))
        )
    
    function f(e, t) {
        return e === a ? d(t) : C(t)
    }

    function I(e) {
        if ('' !== a.parse(e).dir || '' !== c.parse(e).dir)
            throw new Error(`Invalid filename: "${e}"`)}
        else e = e.replace(/\//g, '/'))
    
    function t(t, r) {
        return r || a ? d(t) : C(t)
    }

    class n {
        constructor() {
            (this.name = ''), (this.mode = 0)
    }

    65760: (e, t, r) => {
        'use strict'
        r.r(t, {
            DirEntry: () => n,
            StatEntry: () => o,
            makeDefaultStats: () => i,
            makeEmptyStats: () => s,
            areStatsEqual: () => a,
        })
    }
class o {
    constructor() {
        (this.dev = 0),
        (this.ino = 0),
        (this.mode = 0),
        (this.nlink = 1),
        (this.rdev = 0),
        (this.blocks = 1)
    }
    isBlockDevice() {
        return !1
    }
    isCharacterDevice() {
        return !1
    }
    isDirectory() {
        return (this.mode & A.wK) === A.QB
    }
    isFIFO() {
        return !1
    }
    isFile() {
        return (this.mode & A.wK) === A.Pe
    }
    isSymbolicLink() {
        return (this.mode & A.wK) === A.Zv
    }
}

isBlockDevice() {
    return !1
}
isCharacterDevice() {
    return !1
}
isDirectory() {
    return (this.mode & A.wK) === A.QB
}
isFIFO() {
    return !1
}
isFile() {
    return (this.mode & A.wK) === A.Pe
}
isSocket() {
return !1
}

isSymbolicLink() {
    return (this.mode & A.wK) === A.Zv
}
}

function i() {
    return Object.assign(new o(), {
        uid: 0,
        gid: 0,
        size: 0,
        blksize: 0,
        atimeMs: 0,
        mtimeMs: 0,
        ctimeMs: 0,
        birthtimeMs: 0,
        atime: new Date(0),
        mtime: new Date(0),
        ctime: new Date(0),
        birthtime: new Date(0),
        mode: 420 | A.Pe,
    })
}

function s() {
    return Object.assign(i(), { nlink: 0, blocks: 0, mode: 0 })
}

function a(e, t) {
    return (e.atimeMs === t.atimeMs &&
    e.birthtimeMs === t.birthtimeMs &&
    e.blksize === t.blksize &&
    e.blocks === t.blocks &&
    e.ctimeMs === t.ctimeMs &&
    e.dev === t.dev &&
    e.gid === t.gid &&
    e.ino === t.ino &&
    e.isBlockDevice() === t.isBlockDevice() &&
    e.isCharacterDevice() === t.isCharacterDevice() &&
    e.isDirectory() === t.isDirectory() &&
    e.isFIFO() === t.isFIFO() &&
    e.isFile() === t.isFile() &&
    e.Socket() === t.Socket() &&
    e.isSymbolicLink() === t.isSymbolicLink() &&
    e.mode === t.mode &&
    e.mtimeMs === t.mtimeMs &&
    e.nlink === t.nlink &&
    e.rdev === t.rdev &&
    e.size === t.size &&
let o = null

function i0() {
    var e
    return (null === o &&
        e.uid === t.uid)
}

65281: (e, t, r) => {
    'use strict'
    r.r(t), r.d(t, { getLibzipPromise: () => s, getLibzipSync: () => i })
    const A = ['number', 'number']
    var n
    !(function (e) {
        (e[(e.ZIP_ER_OK = 0)] = 'ZIP_ER_OK'),
        (e[(e.ZIP_ER_MULTIDISK = 1)] = 'ZIP_ER_MULTIDISK'),
        (e[(e.ZIP_ER_RENAME = 2)] = 'ZIP_ER_RENAME'),
        (e[(e.ZIP_ER_CLOSE = 3)] = 'ZIP_ER_CLOSE'),
        (e[(e.ZIP_ER_SEEK = 4)] = 'ZIP_ER_SEEK'),
        (e[(e.ZIP_ER_READ = 5)] = 'ZIP_ER_READ'),
        (e[(e.ZIP_ER_WRITE = 6)] = 'ZIP_ER_WRITE'),
        (e[(e.ZIP_ER_CRC = 7)] = 'ZIP_ER_CRC'),
        (e[(e.ZIP_ER_ZIPCLOSED = 8)] = 'ZIP_ER_ZIPCLOSED'),
        (e[(e.ZIP_ER_NOENT = 9)] = 'ZIP_ER_NOENT'),
        (e[(e.ZIP_ER_EXISTS = 10)] = 'ZIP_ER_EXISTS'),
        (e[(e.ZIP_ER_OPEN = 11)] = 'ZIP_ER_OPEN'),
        (e[(e.ZIP_ER_TMPOPEN = 12)] = 'ZIP_ER_TMPOPEN'),
        (e[(e.ZIP_ER_ZLIB = 13)] = 'ZIP_ER_ZLIB'),
        (e[(e.ZIP_ER_MEMORY = 14)] = 'ZIP_ER_MEMORY'),
        (e[(e.ZIP_ER_CHANGED = 15)] = 'ZIP_ER_CHANGED'),
        (e[(e.ZIP_ER_COMPNOTSUPP = 16)] = 'ZIP_ER_COMPNOTSUPP'),
        (e[(e.ZIP_ER_EOF = 17)] = 'ZIP_ER_EOF'),
        (e[(e.ZIP_ER_INVAL = 18)] = 'ZIP_ER_INVAL'),
        (e[(e.ZIP_ER_NOZIP = 19)] = 'ZIP_ER_NOZIP'),
        (e[(e.ZIP_ER_INTERNAL = 20)] = 'ZIP_ER_INTERNAL'),
        (e[(e.ZIP_ER_INCONS = 21)] = 'ZIP_ER_INCONS'),
        (e[(e.ZIP_ER_REMOVE = 22)] = 'ZIP_ER_REMOVE'),
        (e[(e.ZIP_ER_DELETED = 23)] = 'ZIP_ER_DELETED'),
        (e[(e.ZIP_ER_ENCRNOTSUPP = 24)] = 'ZIP_ER_ENCRNOTSUPP'),
        (e[(e.ZIP_ER_RDONLY = 25)] = 'ZIP_ER_RDONLY'),
        (e[(e.ZIP_ER_NOPASSWD = 26)] = 'ZIP_ER_NOPASSWD'),
        (e[(e.ZIP_ER_WRONGPASSWD = 27)] = 'ZIP_ER_WRONGPASSWD'),
        (e[(e.ZIP_ER_OPNOTSUPP = 28)] = 'ZIP_ER_OPNOTSUPP'),
        (e[(e.ZIP_ER_INUSE = 29)] = 'ZIP_ER_INUSE'),
        (e[(e.ZIP_ER_TELL = 30)] = 'ZIP_ER_TELL'),
        (e[(e.ZIP_ER_COMPRESSED_DATA = 31)] = 'ZIP_ER_COMPRESSED_DATA')
    })(n || (n = {}))
}
((e = r(3368)),
(o = {
get HEAP8() { 
    return e.HEAP8
},
get HEAPU8() { 
    return e.HEAPU8
},
errors: n,
SEEK_SET: 0,
SEEK_CUR: 1,
SEEK_END: 2,
ZIP_CHECKCONS: 4,
ZIP_CREATE: 1,
ZIP_EXCL: 2,
ZIP_TRUNCATE: 8,
ZIP_RDONLY: 16,
ZIP_FL_OVERWRITE: 8192,
ZIP_FL_COMPRESSED: 4,
ZIP_OPSYS_DOS: 0,
ZIP_OPSYS_AMIGA: 1,
ZIP_OPSYS_OPENVMS: 2,
ZIP_OPSYS_UNIX: 3,
ZIP_OPSYS_VM_CMS: 4,
ZIP_OPSYS_ATARI_ST: 5,
ZIP_OPSYS_OS_2: 6,
ZIP_OPSYS_MACINTOSH: 7,
ZIP_OPSYS_Z_SYSTEM: 8,
ZIP_OPSYS_CPM: 9,
ZIP_OPSYS_WINDOWS_NTF: 10,
ZIP_OPSYS_MVS: 11,
ZIP_OPSYS_VSE: 12,
ZIP_OPSYS_ACORN_RISC: 13,
ZIP_OPSYS_VFAT: 14,
ZIP_OPSYS_ALTERNATE_MVS: 15,
ZIP_OPSYS_BEOS: 16,
ZIP_OPSYS_TANDEM: 17,
ZIP_OPSYS_OS_400: 18,
ZIP_OPSYS_OS_X: 19,
ZIP_CM_DEFAULT: -1,
ZIP_CM_STORE: 0,
ZIP_CM_DEFLATE: 8,
uint08S: e._malloc(1),
uint16S: e._malloc(2),
uint32S: e._malloc(4),
uint64S: e._malloc(8),
malloc: e._malloc,
free: e._free,
'number',
'number',
'number',
]
),
fclose: e.cwrap('zip_fclose', 'number', ['number']),
dir: {
  add: e.cwrap('zip_dir_add', 'number', ['number', 'string']),
},
file: {
  add: e.cwrap('zip_file_add', 'number', [
    'number',
    'string',
    'number',
    'number',
  ]),
  getError: e.cwrap('zip_file_get_error', 'number', ['number']),
  getExternalAttributes: e.cwrap(
    'zip_file_get_external_attributes',
    'number',
    ['number', ...A, 'number', 'number', 'number'],
  ),
  setExternalAttributes: e.cwrap(
    'zip_file_set_external_attributes',
    'number',
    ['number', ...A, 'number', 'number', 'number'],
  ),
  setMtime: e.cwrap('zip_file_set_mtime', 'number', [
    'number',
    ...A,
    'number',
    'number',
  ]),
  setCompression: e.cwrap(
    'zip_set_file_compression',
    'number',
    ['number', ...A, 'number', 'number'],
  ),
},
ext: {
  countSymlinks: e.cwrap('zip_ext_count_symlinks', 'number', [
    'number',
  ]),
},
error: {
  initWithCode: e.cwrap('zip_error_init_with_code', null, [
    'number',
    'number',
  ]),
}.
strerror: e.cwrap('zip_error_strerror', 'string', ['number']),
},
name: {
locate: e.cwrap('zip_name_locate', 'number', [
 'number',
 'string',
 'number',
]),
},
source: {
fromUnattachedBuffer: e.cwrap('zip_source_buffer_create',
 'number',
 ['number', 'number', 'number', 'number'],
),
fromBuffer: e.cwrap('zip_source_buffer', 'number', [
 'number',
 'number',
 ...A,
 'number',
]),
free: e.cwrap('zip_source_free', null, ['number']),
keep: e.cwrap('zip_source_keep', null, ['number']),
open: e.cwrap('zip_source_open', 'number', ['number']),
close: e.cwrap('zip_source_close', 'number', ['number']),
seek: e.cwrap('zip_source_seek', 'number', [
 'number',
 ...A,
 'number',
]),
tell: e.cwrap('zip_source_tell', 'number', ['number']),
read: e.cwrap('zip_source_read', 'number', [
 'number',
 'number',
 'number',
]),
error: e.cwrap('zip_source_error', 'number', ['number']),
setMtime: e.cwrap('zip_source_set_mtime', 'number', [
 'number',
 'number',
]),
},
struct: {
stat: e.cwrap('zipstruct_stat', 'number', []),
statS: e.cwrap('zipstruct_statS', 'number', []),
statName: e.cwrap('zipstruct_stat_name', 'string', [
 'number',
]),
}
statIndex: e.cwrap('zipstruct_stat_index', 'number', [ 'number', ]),
statSize: e.cwrap('zipstruct_stat_size', 'number', [ 'number', ]),
statCompSize: e.cwrap('zipstruct_stat_comp_size', 'number', [ 'number', ]),
statCompMethod: e.cwrap('zipstruct_stat_comp_method', 'number', [ 'number', ]),
statMtime: e.cwrap('zipstruct_stat_mtime', 'number', [ 'number', ]),
error: e.cwrap('zipstruct_error', 'number', []),
errorS: e.cwrap('zipstruct_errorS', 'number', []),
errorCodeZip: e.cwrap('zipstruct_error_code_zip', 'number', [ 'number', ]),
);
}
}

async function s() {
  return i()
}

11640: (e, t, r) => {
  'use strict'
  r.r(t),
  r.d(t, {
    parseResolution: () => i,
    parseShell: () => n,
    parseSyml: () => I,
    stringifyResolution: () => s,
    stringifySyml: () => d,
  })
  var A = r(92962)
  function n(e, t = { isGlobPattern: () => !1 }) {
    try {
      return (0, A.parse)(e, t)
    } catch (e) {
      throw (e.location &&

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(e.message = e.message.replace(/(\.)?$/,
` ` (line ${e.location.start.line}, column ${e.location.start.column})$1`,
)),
e)
}
}
var o = r(98261)
function i(e) {
const t = e.match(/[^\*\[1,2]\^.*]/)
if (t)
throw new Error(
`The override for '${e}' includes a glob pattern. Glob patterns have been removed since their behaviours
don't match what you'd expect. Set the override to '${t[1]}' instead.`,
)
try {
return (0, o.parse)(e)
} catch (e) {
throw (
(e.location &&
(e.message = e.message.replace(/(\.)?$/,
` ` (line ${e.location.start.line}, column ${e.location.start.column})$1`,
)),
e)
}
}
function s(e) {
let t = 
return (e.from &&
((t += e.from.fullName),
e.from.description && (t += '@' + e.from.description),
(t += ' ')),
(t += e.descriptor.fullName),
e.descriptor.description && (t += '@' + e.descriptor.description),
t)
}
var a = r(21194),
c = r(85443)
const g = /^\*\^\[\].\[\^\*\]^\*\^\[\]*\^\[\*\]@` \t\r\n\]/\([\ t]*\(?!\[\]\[\][ ]\# \t\r\n\]).*$/$,
l = [
  `__metadata`,
  `version`,
  `resolution`,
`dependencies',
`peerDependencies',
`dependenciesMeta',
`peerDependenciesMeta',
`binaries',
]
class u {
  constructor(e) {
    this.data = e
  }
}

function h(e) {
  return e.match(g) ? e : JSON.stringify(e)
}

function p(e, t, r) {
  if (null === e) return 'null
'
  if ('number' === typeof e || 'boolean' === typeof e)
    return e.toString() + 'n'
  if ('string' === typeof e) return h(e) + 'n'
  if (Array.isArray(e)) {
    if (0 === e.length) return '
'
    const r = ' '.repeat(t)
    return '
' + e.map((e) => `${r}- ${p(e, t + 1, !1)}`).join('
')
  }
  if ('object' === typeof e && e) {
    let A, n
    e instanceof u ? ((A = e.data), (n = !1)) : ((A = e), (n = !0))
    const o = ' '.repeat(t),
      i = Object.keys(A)
    n &&
    i.sort((e, t) => {
      const r = i.indexOf(e),
        A = i.indexOf(t)
      return -1 === r && -1 === A
        ? e < t
        ? -1
        : e > t
        ? 1
        : 0
        : -1 !== r && -1 === A
        ? -1
        : -1 === r && -1 !== A
        ? 1
        : r - A
    })
    const s =
      .filter(
`Expected an indexed object, got a ${typeof t} instead. Does your file follow Yaml's rules?`

if (Array.isArray(t))
    throw new Error("Expected an indexed object, got an array instead. Does your file follow Yaml's rules?"),

return t
}

function I(e) {
return f(e)
}

34432: (e, t, r) => {

'use strict'

var A, n

r.d(t, { gY: () => E, Q$: () => B, oC: () => F }),

(function (e) {
    (e.HARD = 'HARD'), (e.SOFT = 'SOFT')
})(A || (A = {})),

(function (e) {
    (e.DEFAULT = 'DEFAULT'),
    (e.TOP_LEVEL = 'TOP_LEVEL'),
    (e.FALLBACK_EXCLUSION_LIST = 'FALLBACK_EXCLUSION_LIST'),
    (e.FALLBACK_EXCLUSION_ENTRIES = 'FALLBACK_EXCLUSION_ENTRIES'),
    (e.FALLBACK_EXCLUSION_DATA = 'FALLBACK_EXCLUSION_DATA'),
    (e.PACKAGE_REGISTRY_DATA = 'PACKAGE_REGISTRY_DATA'),
    (e.PACKAGE_REGISTRY_ENTRIES = 'PACKAGE_REGISTRY_ENTRIES'),
    (e.PACKAGE_STORE_DATA = 'PACKAGE_STORE_DATA'),
    (e.PACKAGE_STORE_ENTRIES = 'PACKAGE_STORE_ENTRIES'),
    (e.PACKAGE_INFORMATION_DATA = 'PACKAGE_INFORMATION_DATA'),
    (e.PACKAGE_DEPENDENCIES = 'PACKAGE_DEPENDENCIES'),
    (e.PACKAGE_DEPENDENCY = 'PACKAGE_DEPENDENCY')
})(n || (n = {}))

const o = {
    [n.DEFAULT]: { collapsed: !1, next: { '*' : n.DEFAULT } },
    [n.TOP_LEVEL]: {
        collapsed: !1,
        next: {
            fallbackExclusionList: n.FALLBACK_EXCLUSION_LIST,
            packageRegistryData: n.PACKAGE_REGISTRY_DATA,
            '*' : n.DEFAULT,
        },
    },
    [n.FALLBACK_EXCLUSION_LIST]: {
        collapsed: !1,
        next: { '*' : n.FALLBACK_EXCLUSION_ENTRIES },
    },
    [n.FALLBACK_EXCLUSION_ENTRIES]: {

function i(e, t, r, A) {
    const { next: n } = o[r]
    return s(t, n[e] || n['*'], A)
}

function s(e, t, r) {
    const { collapsed: A } = o[t]
    return Array.isArray(e)
        ? A
        : (function (e, t, r) {
            let A = ''
            A += '['
            for (let n = 0, o = e.length; n < o; ++n)
function a(e) {
  return s(e, n.TOP_LEVEL, "")
}

function c(e, t) {
  const r = Array.from(e)
  Array.isArray(t) || (t = [t])
  const A = []
  for (const e of t) A.push(r.map(t => e(t)))
  const n = r.map((e, t) => t)
  return (n.sort((e, t) => {
    for (const r of A) {
      if (0 !== A) return A
    }
    return 0
  }), n.map((e) => r[e]))
}

function g(e) {
  const t = new Map(),
  r = c(e.fallbackExclusionList || [], [{ name: e, reference: t }]
  for (const { name: e, reference: A } of r) {
    let r = t.get(e)
    void 0 === r && t.set(e, (r = new Set()), r.add(A)
  }
  return Array.from(t).map(([e, t]) => [e, Array.from(t)])
}

function l(e) {
  return c(e.fallbackPool || [], ([e]) => e)
}

function u(e) {
  const t = []
  for (const [ r, A ] of c(e.packageRegistry, ([e]) =>
    null === e ? '0' : '1' + e,
  )) {
    const e = []
    t.push([r, e])
    for (const [
      t,
    ]
  }
}
packageLocation: n,
packageDependencies: o,
packagePeers: i,
linkType: s,
discardFromLookup: a,

}\ of c(A, (\[e\]) => (null === e ? '0' : '1' + e)) {  
const A = []
null === r || null === t || o.has(r) || A.push([r, t])
for (const [e, t] of c(o.entries(), (\[e\]) => e)) A.push([e, t])
const g = i && i.size > 0 ? Array.from(i) : void 0,
1 = a || void 0
e.push([

  t,
  {
    packageLocation: n,
    packageDependencies: A,
    packagePeers: g,
    linkType: s,
    discardFromLookup: l,
  },
])
}
)
)
}
return t
}
function h(e) {
return c(e.blacklistedLocations || [], (e) => e)
}
function p(e) {
return {
__info: [
  'This file is automatically generated. Do not touch it, or risk',
  'your modifications being lost. We also recommend you not to read',
  'it either without using the @yarnpkg/pnp package, as the data layout',
  'is entirely unspecified and WILL change from a version to another.',
],
dependencyTreeRoots: e.dependencyTreeRoots,
enableTopLevelFallback: e.enableTopLevelFallback || !1,
ignorePatternData: e.ignorePattern || null,
fallbackExclusionList: g(e),
fallbackPool: l(e),
locationBlacklistData: h(e),
packageRegistryData: u(e),
}
}
var d = r(20103),
C = r.n(d)
function f(e, t) {
    return [
        e ? e + '\n' : '',
        '/** eslint-disable */

        try {\n            Object.freeze({}).detectStrictMode = true;\n        } catch (error) {\n            throw new Error(`The whole PnP file got strict-mode-ified, which is known to break (Emscripten libraries aren't strict mode). This usually happens when the file goes through Babel.`);\n        }\n
        var __non_webpack_module__ = module;\n
        var setupState = function ($) {
            C()()
        }\n
        return I(e.shebang, t)
    }
}

function I(e) {
    return JSON.stringify(e, null, 2)
}

function E(e) {
    const t = p(e),
    r = ((A = e.dataLocation),
        ["var path = require('path');\n        var dataLocation = path.resolve(__dirname, ${JSON.stringify(A)}, \n        return hydrateRuntimeState(require(dataLocation), {basePath: basePath || path.dirname(dataLocation)}));\n        return f(e.shebang, t)
    }

function B(e) {
    const t = p(e),
    r = ((A = e.dataLocation),
        ["var path = require('path');\n        var dataLocation = path.resolve(__dirname, ${JSON.stringify(A)}, \n        return hydrateRuntimeState(require(dataLocation), {basePath: basePath ||
        path.dirname(dataLocation)}));\n        return f(e.shebang, t)
    }

    const n = f(e.shebang, r)
    return { dataFile: I(t), loaderFile: n }
var y = r(35747),
m = (r(85622), r(31669)),
w = r(46009)
var Q,
D = r(17674),
b = r(32282)
!(function (e) {
  (e.API_ERROR = 'API_ERROR'),
  (e.BLACKLISTED = 'BLACKLISTED'),
  (e.BUILTIN_NODE_RESOLUTION_FAILED = 'BUILTIN_NODE_RESOLUTION_FAILED'),
  (e.MISSING_DEPENDENCY = 'MISSING_DEPENDENCY'),
  (e.MISSING_PEER_DEPENDENCY = 'MISSING_PEER_DEPENDENCY'),
  (e.QUALIFIED_PATH_RESOLUTION_FAILED = 'QUALIFIED_PATH_RESOLUTION_FAILED'),
  (e.INTERNAL = 'INTERNAL'),
  (e.UNDECLARED_DEPENDENCY = 'UNDECLARED_DEPENDENCY'),
  (e.UNSUPPORTED = 'UNSUPPORTED')
})(Q || (Q = {}))
const v = new Set([Q.BLACKLISTED,
Q.BUILTIN_NODE_RESOLUTION_FAILED,
Q.MISSING_DEPENDENCY,
Q.MISSING_PEER_DEPENDENCY,
Q.QUALIFIED_PATH_RESOLUTION_FAILED,
Q.UNDECLARED_DEPENDENCY,
])
function S(e, t, r = {}) {
  const A = v.has(e) ? 'MODULE_NOT_FOUND' : e,
    n = { configurable: !0, writable: !0, enumerable: !1 }
  return Object.defineProperties(new Error(t), {
    code: { ...n, value: A },
    pnpCode: { ...n, value: e },
    data: { ...n, value: r },
  })
}
function k(e) {
  return w.cS.normalize(w.cS.fromPortablePath(e))
}
function N(e, t) {
  const r = Number(process.env.PNP_ALWAYS_WARN_ON_FALLBACK) > 0,
    A = Number(process.env.PNP_DEBUG_LEVEL),
    n = new Set(b.Module.builtinModules || Object.keys(process.binding('natives'))),
    o = /^\^[\w][\w\\]{0,2}(?::@[^/]+)?[^/]+\^[\w]+$/,
i = /^\(\(/.\{1,2\}\)(\$/)/,
  s = /\$/,
  a = { name: null, reference: null },
  c = [],
  g = new Set()
if (
  !0 === e.enableTopLevelFallback && c.push(a),
  !1 !== t.compatibilityMode)
) for (const t of ['react-scripts', 'gatsby']) {
  const r = e.packageRegistry.get(t)
  if (r)
    for (const e of r.keys()) {
      if (null === e)
        throw new Error("Assertion failed: This reference shouldn't be null",
        )
      c.push({ name: t, reference: e })
    }
  const {
    ignorePattern: l,
    packageRegistry: u,
    packageLocatorsByLocations: h,
    packageLocationLengths: p,
  } = e
  function d(e, t) {
    return { fn: e, args: t, error: null, result: null }
  }
  function C(e, r) {
    if (!1 === t.allowDebug) return r
    if (Number.isFinite(A)) {
      if (A >= 2)
        return (...t) => {
          const A = d(e, t)
          try {
            return (A.result = r(...t))
          } catch (e) {
            throw (A.error = e)
          } finally {
            console.trace(A)
          }
        }
      if (A >= 1)
        return (...t) => {
          try {
            return r(...t)
          } catch (r) { 
            throw (r.error = r)
          } finally {
            console.trace(r)
          }
        }
    }
  }
const A = d(e, t)
throw ((A.error = r), console.trace(A), r)
}
}
}

function f(e) {
const t = y(e)
if (!t)
throw S(Q.INTERNAL,
"Couldn't find a matching entry in the dependency tree for the specified parent (this is probably an internal error)",
)
return t
}

function I(t) {
if (null === t.name) return !0
for (const r of e.dependencyTreeRoots)
if (r.name === t.name & r.reference === t.reference) return !0
return !1
}

function E(e, t) {
return (t.endsWith('/') && (t = w.y1.join(t, 'internal.js')),
b.Module._resolveFilename(w.cS.fromPortablePath(e),
(function (e) {
const t = new b.Module(e, null)
return (t.filename = e),
(t.paths = b.Module._nodeModulePaths(e)),
t
})(w.cS.fromPortablePath(t)),
!1,
{ plugnplay: !1 },
)
)
}

function B(t) {
if (null === l) return !1
const r = w.y1.contains(e.basePath, t)
return null !== r && !!l.test(r.replace(/\$/i, ","))
}

function y({ name: e, reference: t }) {
const r = u.get(e)
if (!r) return null
const A = r.get(t)
return A || null
}

function m(e, t) {
const r = new Map(),
A = new Set(),
n = (t) => {
const o = JSON.stringify(t.name)
if (A.has(o)) return
A.add(o)
const i = (function ({ name: e, reference: t }) {
const r = []
for (const [A, n] of u)
if (null !== A)
for (const [o, i] of n) {
if (null === o) continue
i.packageDependencies.get(e) === t &
((A === e & o === t) ||
r.push({ name: A, reference: o }))
}
return r
})(t)
for (const t of i) {
if (f(t).packagePeers.has(e)) n(t)
else {
let e = r.get(t.name)
void 0 === e & r.set(t.name, (e = new Set())),
e.add(t.reference)
}
}
}
n(t)
const o = []
for (const e of [...r.keys()].sort())
for (const t of [...r.get(e)].sort())
o.push({ name: e, reference: t })
return o
}

function v(t) {
if (B(t)) return null
let r = ((A = w.y1.relative(e.basePath, t)), w.cS.toPortablePath(A))
var A
r.match(i) || (r = '\' + r),
t.match(s) & \.endsWith('') & (r += '\')
let n = 0
for (; n < p.length & p[n] > r.length; ) n += 1
for (let e = n; e < p.length; ++e) {
```javascript
const A = h.get(r.substr(0, p[e]));
if (void 0 !== A) {
  if (null === A) {
    const e = k(t);
    throw S(Q.BLACKLISTED,
      "A forbidden path has been used in the package resolution process - this is usually caused by one of your tools calling 'fs.realpath' on the return value of 'require.resolve'. Since we need to use symlinks to simultaneously provide valid filesystem paths and disambiguate peer dependencies, they must be passed untransformed to 'require'.

Forbidden path: "+
  e,
  { location: e },
}
  return A
}
return null
}

function N(A, i, { considerBuiltins: a = !0 } = {}) {
  if ('pnpapi' === A) return w.cS.toPortablePath(t.pnpapiResolution)
  if (a && n.has(A)) return null
  const l = k(A),
    u = i && k(i)
  if (i && B(i) && (!w.y1.isAbsolute(A) || null === v(A))) {
    const e = E(A, i)
    if (!1 === e)
      throw S(Q.BUILTIN_NODE_RESOLUTION_FAILED,
        "The builtin node resolution algorithm was unable to resolve the requested module (it didn't go through the pnp resolver because the issuer was explicitly ignored by the regexp)

Require request: "+
  l,
  { request: l, issuer: u },
}
  return w.cS.toPortablePath(e)
}
let h
const p = A.match(o)
if (p) {
  if (!i)
    throw S(Q.API_ERROR,
      "The resolveToUnqualified function must be called with a valid issuer when the path isn't a builtin nor absolute",
      { request: l, issuer: u },
    }
    const [, t, o] = p,
    s = v(i)
```
if (!s) {
    const e = E(A, i)
    if (!1 === e)
        throw S(
            Q.BUILTIN_NODE_RESOLUTION_FAILED,
            'The builtin node resolution algorithm was unable to resolve the requested module (it didn’t go through
            the pnp resolver because the issuer doesn’t seem to be part of the Yarn-managed dependency tree).

            Require path: "${l}"
            Required by: ${u}


        );
    return w.cS.toPortablePath(e)
}

let d = f(s).packageDependencies.get(t),
    C = null
if (null == d && null !== s.name) {
    const A = e.fallbackExclusionList.get(s.name)
    if (!A || !A.has(s.reference)) {
        for (let e = 0, A = c.length; e < A; ++e) {
            const A = f(c[e]).packageDependencies.get(t)
            if (null != A) {
                r ? (C = A) : (d = A)
                break
            }
        }
        if (e.enableTopLevelFallback && null == d && null === C) {
            const r = e.fallbackPool.get(t)
            null != r && (C = r)
        }
    }
    let B = null
    if (null === d)
        if (I(s))
            B = S(
                Q.MISSING_PEER_DEPENDENCY,
                'Your application tried to access ${t} (a peer dependency); this isn’t allowed as there is no ancestor to
                satisfy the requirement. Use a devDependency if needed.

                Required package: ${t} (via "${l}")
                Required by:
                ${u}
                );
        else {
            const e = m(t, s)
            B = e.every((e) => I(e))
        }
    else {
        const e = m(t, s)
        B = e.every((e) => I(e))
    }
}
let B = null
if (null === d)
    if (I(s))
        B = S(
            Q.MISSING_PEER_DEPENDENCY,
            'Your application tried to access ${t} (a peer dependency) but it isn’t provided by your application; this makes the


require call ambiguous and unsound.

`$t` (via "$[1]"))

Required by: {
  s.name
  @$s.reference} (via ${u})

.map(
  (e) =>
    `Ancestor breaking the chain: ${e.name}@${e.reference}\n`,
  )
  .join(‘\n’),
{
  request: l,
  issuer: u,
  issuerLocator: Object.assign([], s),
  dependencyName: t,
  brokenAncestors: e,
},
)

: S( Q.MISSING_PEER_DEPENDENCY,
`$t` tried to access `$t` (a peer dependency) but it isn’t provided by its ancestors; this makes the require call ambiguous and unsound.

Required package: `$t` (via "$[1]"))

Required by: {
  s.name
  @$s.reference} (via ${u})

.map(
  (e) =>
    `Ancestor breaking the chain: ${e.name}@${e.reference}\n`,
  )
  .join(“\n”),
{
  request: l,
  issuer: u,
  issuerLocator: Object.assign([], s),
  dependencyName: t,
  brokenAncestors: e,
},
)

else
void 0 === d &
(B =
  !a &
  n.has(A)
  ? I(s)
  ? S( Q.UNDECLARED_DEPENDENCY,
`Your application tried to access `$t`. While this module is usually interpreted as a Node builtin, your resolver is running inside a non-Node resolution context where such builtins are ignored. Since `$t` isn’t otherwise declared in your dependencies, this makes the require call ambiguous and unsound.

Required package: `$t` (via "$[1]"))

Required by: {
  s.name
  @$s.reference} (via ${u})

.map(
  (e) =>
    `Ancestor breaking the chain: ${e.name}@${e.reference}\n`,
  )
  .join(“\n”),
{
  request: l,
  issuer: u,
  issuerLocator: Object.assign([], s),
  dependencyName: t,
  brokenAncestors: e,
},
)

else
void 0 === d &
(B =
  !a &
  n.has(A)
  ? I(s)
  ? S( Q.UNDECLARED_DEPENDENCY,
`Your application tried to access `$t`. While this module is usually interpreted as a Node builtin, your resolver is running inside a non-Node resolution context where such builtins are ignored. Since `$t` isn’t otherwise declared in your dependencies, this makes the require call ambiguous and unsound.

Required package: `$t` (via "$[1]"))

Required by: {
  s.name
  @$s.reference} (via ${u})

.map(
  (e) =>
    `Ancestor breaking the chain: ${e.name}@${e.reference}\n`,
  )
  .join(“\n”),
{
  request: l,
  issuer: u,
  issuerLocator: Object.assign([], s),
  dependencyName: t,
  brokenAncestors: e,
},
)

else
void 0 === d &
(B =
  !a &
  n.has(A)
  ? I(s)
  ? S( Q.UNDECLARED_DEPENDENCY,
`Your application tried to access `$t`. While this module is usually interpreted as a Node builtin, your resolver is running inside a non-Node resolution context where such builtins are ignored. Since `$t` isn’t otherwise declared in your dependencies, this makes the require call ambiguous and unsound.

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    `Ancestor breaking the chain: ${e.name}@${e.reference}\n`,
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{
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  s.name
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  (e) =>
    `Ancestor breaking the chain: ${e.name}@${e.reference}\n`,
  )
  .join(“\n”),
{
  request: l,
  issuer: u,
  issuerLocator: Object.assign([], s),
  dependencyName: t,
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  )
  .join(“\n”),
{
  request: l,
  issuer: u,
  issuerLocator: Object.assign([], s),
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  (e) =>
    `Ancestor breaking the chain: ${e.name}@${e.reference}\n`,
  )
  .join(“\n”),
{
  request: l,
  issuer: u,
  issuerLocator: Object.assign([], s),
  dependencyName: t,
  brokenAncestors: e,
},
)

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Required by: {
  s.name
  @$s.reference} (via ${u})

.map(
  (e) =>
    `Ancestor breaking the chain: ${e.name}@${e.reference}\n`,
  )
  .join(“\n”),
{
  request: l,
  issuer: u,
  issuerLocator: Object.assign([], s),
  dependencyName: t,
  brokenAncestors: e,
},
)

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void 0 === d &
(B =
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  n.has(A)
  ? I(s)
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Required by: {
  s.name
  @$s.reference} (via ${u})

.map(
  (e) =>
    `Ancestor breaking the chain: ${e.name}@${e.reference}\n`,
  )
  .join(“\n”),
{
  request: l,
  issuer: u,
  issuerLocator: Object.assign([], s),
  dependencyName: t,
  brokenAncestors: e,
},
)

else
void 0 === d &
(B =
  !a &
  n.has(A)
  ? I(s)
  ? S( Q.UNDECLARED_DEPENDENCY,
`Your application tried to access `$t`. While this module is usually interpreted as a Node builtin, your resolver is running inside a non-Node resolution context where such builtins are ignored. Since `$t` isn’t otherwise declared in your dependencies, this makes the require call ambiguous and unsound.
null == d) {
    if (null == C || null == B)
        throw (null !== B ||
            new Error('Assertion failed: Expected an error to have been set',
                ));
    d = C
    const e = B.message.replace(/\n.*/g, '')
    if (B.message == e, g.has(e) || (g.add(e), process.emitWarning(B)))
} const y = Array.isArray(d)
A dependency seems valid but didn't get installed for some reason. This might be caused by a partial install, such as dev vs prod.

```
Required package: `{name}@{reference}` (via "${l}")
Required by: `{s.name}@{s.reference}` (via ${u})
```

```
request: `{request}
issuer: `{issuer}
```

```
const b = D.packageLocation
h = o ? w.y1.join(b, o) : b
```

```
if (w.y1.isDirectory()) h = w.y1.normalize(A)
else {
  if (!i) throw S(
    Q.API_ERROR,
    "The resolveToUnqualified function must be called with a valid issuer when the path isn't a builtin nor absolute",
    { request: `{request}.issuer: `{issuer}
  )

  const e = w.y1.resolve(i)
  h = i.match(s)
  ? w.y1.normalize(w.y1.join(e, A))
  : w.y1.normalize(w.y1.join(w.y1.dirname(e), A))
}
  v(h)
} return w.y1.normalize(h)
```

```javascript
function F(e, { extensions: r = Object.keys(b.Module._extensions) } = {})
{
  const A = [],
  n = (function e(r, A, { extensions: n }){}
  let o
  try {
    A.push(r), (o = t.fakeFs.statSync(r))
  } catch (e) 
  if (o && o.isDirectory()) return t.fakeFs.realpathSync(r)
  if (o && o.isDirectory()) 
```
let o, i
try {
  o = JSON.parse(
    t.fakeFs.readFileSync(
      w.y1.join(r, 'package.json'),
      'utf8',
    ),
  )
} catch (e) {
  if (o && o.main && (i = w.y1.resolve(r, o.main)), i && i !== r)
  ) {
    const t = e(i, A, { extensions: n })
    if (null !== t) return t
  }
  for (let e = 0, o = n.length; e < o; e++) {
    const o = `${r}${n[e]}`
    if ((A.push(o), t.fakeFs.existsSync(o))) return o
  }
  if (o && o.isDirectory())
  for (let e = 0, o = n.length; e < o; e++) {
    const o = w.y1.format({ dir: r, name: 'index', ext: n[e] })
    if ((A.push(o), t.fakeFs.existsSync(o))) return o
  }
  return null
})(e, A, { extensions: r })
if (n) return w.y1.normalize(n)
{
  const t = k(e)
  throw S(
    Q.QUALIFIED_PATH_RESOLUTION_FAILED,
    'Qualified path resolution failed - none of the candidates can be found on the disk.

Source path: ${t}

Rejected candidate: ${k(e)}
',
   { unqualifiedPath: t },
  )
}

return {
  VERSIONS: { std: 3, resolveVirtual: 1, getAllLocators: 1 },
topLevel: a,
getLocator: (e, t) =>
Array.isArray(t)
? { name: t[0], reference: t[1] }
: { name: e, reference: t },
getDependencyTreeRoots: () => [...e.dependencyTreeRoots],

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getAllLocators() {
    const e = []
    for (const [t, r] of u)
        for (const A of r.keys())
            null !== t && null !== A && e.push({ name: t, reference: A })
    return e
},
getPackageInformation: (e) => {
    const t = y(e)
    if (null === t) return null
    const r = w.cS.fromPortablePath(t.packageLocation)
    return { ...t, packageLocation: r }
},
findPackageLocator: (e) => v(w.cS.toPortablePath(e)),
resolveToUnqualified: C('resolveToUnqualified', (e, t, r) => {
    const A = null !== t ? w.cS.toPortablePath(t) : null,
    n = N(w.cS.toPortablePath(e), A, r)
    return null === n ? null : w.cS.fromPortablePath(n)
}),
resolveUnqualified: C('resolveUnqualified', (e, t) =>
    w.cS.fromPortablePath(F(w.cS.toPortablePath(e), t)),
),
resolveRequest: C('resolveRequest', (e, t, r) => {
    const A = null !== t ? w.cS.toPortablePath(t) : null,
    n = (function (e , t , { considerBuiltins: r, extensions: A } = {} , ) {
        const n = N(e, t, { considerBuiltins: r })
        if (null === n) return null
        try {
            return F(n, { extensions: A })
        } catch (r) {
            throw (
                'QUALIFIED_PATH_RESOLUTION_FAILED' === r.pnpCode &&
                Object.assign(r.data, {
                    request: k(e),
                    issuer: t && & k(t),
                })),
            r)
        }
    })(w.cS.toPortablePath(e), A, r)
    return null === n ? null : w.cS.fromPortablePath(n)
}),
resolveVirtual: C('resolveVirtual', (e) => {
    const t = (function (e) {
    
    })
    
});
const t = w.y1.normalize(e),
  r = D.p.resolveVirtual(t)
return r !== t ? r : null
})(w.cS.toPortablePath(e))
return null !== t ? w.cS.fromPortablePath(t) : null
},
}
:(0, m.promisify)(y.readFile)
const F = (e, t, r) =>
N((function (e, { basePath: t }) {
  const r = w.cS.toPortablePath(t),
    A = w.y1.resolve(r),
    n =
      null !== e.ignorePatternData
        ? new RegExp(e.ignorePatternData)
        : null,
    o = new Map(e.packageRegistryData.map(([e, t]) => [
      e,
      new Map(t.map(([e, t]) => [
        e,
        {
          packageLocation: w.y1.join(A, t.packageLocation),
          packageDependencies: new Map(t.packageDependencies),
          packagePeers: new Set(t.packagePeers),
          linkType: t.linkType,
          discardFromLookup: t.discardFromLookup || !1,
        },
      ]),
    ]),
  ),
  ),
  ),
  ),
  i = new Map(),
s = new Set()
for (const [t, r] of e.packageRegistryData)
for (const [e, A] of r) {
  if ((null === t) != (null === e))
    throw new Error(
      'Assertion failed: The name and reference should be null, or neither should',
    )
  if (A.discardFromLookup) continue
  const r = { name: t, reference: e }
  i.set(A.packageLocation, r), s.add(A.packageLocation.length)
}
for (const t of e.locationBlacklistData) i.set(t, null)
const a = new Map(e.fallbackExclusionList.map(([e, t]) => [e, new Set(t)]),
);
c = new Map(e.fallbackPool)
return {
basePath: r,
dependencyTreeRoots: e.dependencyTreeRoots,
enableTopLevelFallback: e.enableTopLevelFallback,
fallbackExclusionList: a,
fallbackPool: c,
ignorePattern: n,
packageLocationLengths: [...s].sort((e, t) => t - e),
packageLocatorsByLocations: i,
packageRegistry: o,
}
)(p(e), { basePath: t }),
{
fakeFs: r, pnpapiResolution: w.cS.join(t, '.pnp.js')
}
,
76756: (e, t, r) => {
'use strict'
r.r(t),
r.d(t, { ShellError: () => c, execute: () => Z, globUtils: () => A })
var A = []
r.r(A),
r.d(A, {
fastGlobOptions: () => E,
isBraceExpansion: () => m,
isGlobPattern: () => B,
match: () => y,
micromatchOptions: () => I,
})
var n = r(46009),
o = r(78420),
i = r(11640),
s = r(12087),
a = r(92413)
class c extends Error {
constructor(e) {
  super(e), (this.name = 'ShellError')
}
}
var g = r(43896),
l = r(39725),
u = r(19347),
h = r.n(u),
p = r(35747),
d = r.n(p),
C = r(2401),
f = r.n(C)
const I = { strictBrackets: !0 },
E = { onlyDirectories: !1, onlyFiles: !1 }
function B(e) {
  if (!f().scan(e, I).isGlob) return !1
  try {
    f().parse(e, I)
  } catch (e) {
    return !1
  }
  return !0
}
function y(e, { cwd: t, baseFs: r }) {
  return h()(e, {
    ...E,
    cwd: n.cS.fromPortablePath(t),
    fs: (0, g.extendFs)(d(), new l.i(r)),
  })
}
function m(e) {
  return f().scan(e, I).isBrace
}
var w,
Q = r(67566),
D = r.n(Q)
function b() {}
!(function (e) {
  ;(e[(e.STDIN = 0)] = 'STDIN'),
  (e[(e.STDOUT = 1)] = 'STDOUT'),
  (e[(e.STDERR = 2)] = 'STDERR')
})(w || (w = {}))
let v = 0
class S {
  constructor(e) {
    this.stream = e
  }
  close() {}
  get() {
    return this.stream
  }
}
class k {
  constructor() {
    this.stream = null
  }
  close() {
    if (null === this.stream)
throw new Error('Assertion failed: No stream attached')
this.stream.end()
}
attach(e) {
    this.stream = e
}
get() {
    if (null === this.stream)
        throw new Error('Assertion failed: No stream attached')
    return this.stream
}
}
class N {
    constructor(e, t) {
        (this.stdin = null),
        (this.stdout = null),
        (this.stderr = null),
        (this.pipe = null),
        (this.ancestor = e),
        (this.implementation = t)
    }
    static start(e, { stdin: t, stdout: r, stderr: A }) {
        const n = new N(null, e)
        return (n.stdin = t), (n.stdout = r), (n.stderr = A), n
    }
    pipeTo(e, t = w.STDOUT) {
        const r = new N(this, e),
        A = new k()
        return {
            (r.pipe = A),
            (r.stdout = this.stdout),
            (r.stderr = this.stderr),
            (t & w.STDOUT) === w.STDOUT
            ? (this.stdout = A)
            : null !== this.ancestor &&
            (this.stderr = this.ancestor.stdout),
            (t & w.STDERR) === w.STDERR
            ? (this.stderr = A)
            : null !== this.ancestor &&
            (this.stderr = this.ancestor.stderr),
            r
        }
    }
    async exec() {
        const e = ['ignore', 'ignore', 'ignore']
        if (this.pipe) e[0] = 'pipe'
        else {
            if (null === this.stdin)
throw new Error('Assertion failed: No input stream registered')
e[0] = this.stdin.get()
}
let t, r
if (null === this.stdout)
    throw new Error('Assertion failed: No output stream registered')
if (((t = this.stdout), (e[1] = t.get()), null === this.stderr))
    throw new Error('Assertion failed: No error stream registered')
    ;(r = this.stderr), (e[2] = r.get())
const A = this.implementation(e)
return (this.pipe && this.pipe.attach(A.stdin),
wait A.promise.then((e) => (t.close(), r.close(), e))
)
}
async run() {
    const e = [
    for (let t = this; t; t = t.ancestor) e.push(t.exec())
    return (await Promise.all(e))[0]
}
}
function F(e, t) {
    return N.start(e, t)
}
var K
function M(e, t, r) {
    const A = new a.PassThrough({ autoDestroy: !0 })
    switch (e) {
        case w.STDIN:
            (t & K.Readable) === K.Readable && r.stdin.pipe(A, { end: !1 }),
            (t & K.Writable) === K.Writable &&
            r.stdin instanceof a.Writable &&
            A.pipe(r.stdin, { end: !1 })
        break
        case w.STDOUT:
            (t & K.Readable) === K.Readable && r.stdout.pipe(A, { end: !1 }),
            (t & K.Writable) === K.Writable && A.pipe(r.stdout, { end: !1 })
        break
        case w.STDERR:
            (t & K.Readable) === K.Readable && r.stderr.pipe(A, { end: !1 }),
            (t & K.Writable) === K.Writable && A.pipe(r.stderr, { end: !1 })
        break
        default:
            throw new c(`Bad file descriptor: "${e}"`)
    }
    return A
}
function R(e, t = {}) {

const r = { ...e, ...t }
return (
(r.environment = { ...e.environment, ...t.environment }),
(r.variables = { ...e.variables, ...t.variables } ),

r)
)
!(function (e) {
:e[(e.Readable = 1)] = 'Readable',
:e[(e.Writable = 2)] = 'Writable'
})(K || (K = {}))
const x = new Map([
    ['cd',
        async ([e = (0, s.homedir)(), ...t], r, A) => {
            const o = n.y1.resolve(A.cwd, n.cS.toPortablePath(e))
            return (await r.baseFs.statPromise(o)).isDirectory()
                ? ((A.cwd = o), 0)
                : (A.stderr.write('cd: not a directory\n'), 1)
        },
    ],
    ['pwd',
        async (e, t, r) => {
            r.stdout.write(n.cS.fromPortablePath(r.cwd) + '\n'), 0
        },
    ],
    [':',
        async (e, t, r) => 0],
    ['true',
        async (e, t, r) => 0],
    ['false',
        async (e, t, r) => 1],
    ['exit',
        async ([e, ...t], r, A) =>{
            A.exitCode = parseInt(null != e ? e : A.variables['?'], 10))
        },
    ],
    ['echo',
        async (e, t, r) => (r.stdout.write(e.join(' ') + '\n'), 0)],
    ['__ysh_run_procedure',
        async (e, t, r) => {
            const A = r.procedures[e[0]]
            return await F(A, {
                stdin: new S(r.stdin),
                stdout: new S(r.stdout),
                stderr: new S(r.stderr),
            }).run()
        },
    ],
]
async (e, t, r) => {
  let A = r.stdin,
      o = r.stdout
  const i = r.stderr,
      s = [],
      c = []
  let g = 0
  for (; '--' !== e[g]; ) {
    const A = e[g++],
          o = Number(e[g++]),
          i = g + o
    for (let o = g; o < i; ++g, ++o)
      switch (A) {
        case '<':
          s.push(() =>
            t.baseFs.createReadStream(
              n.y1.resolve(r.cwd, n.cS.toPortablePath(e[o])),
            ),
          )
          break
        case '<<':
          s.push(() => { return (process.nextTick(() => {
              t.write(e[o] + '
'), t.end()
            })),
            t
          })
          break
        case '<&':
          s.push(() => M(Number(e[o]), K.Readable, r))
          break
        case '>':
        case '>>':
          const i = n.y1.resolve(r.cwd, n.cS.toPortablePath(e[o]))
          '/dev/null' === i
          ? c.push(
              new a.Writable({
                autoDestroy: !0,
                emitClose: !0,
                write(e, t, r) {
                  setImmediate(r)
                },
              })),
          )
          break
        case '</':
          case '>>':
          {
            const i = n.y1.resolve(r.cwd, n.cS.toPortablePath(e[o]))
            '/dev/null' === i
            ? c.push(
                new a.Writable({
                  autoDestroy: !0,
                  emitClose: !0,
                  write(e, t, r) {
                    setImmediate(r)
                  },
                })),
            )
            break
          }
        case '}':
          break
```javascript
function c.push(t.baseFs.createWriteStream(
    i,  
    '>>' === A ? { flags: 'a' } : void 0,
    )

) break

switch (s.length > 0) {
    const e = new a.PassThrough()
    A = e
    const t = (r) => {
        if (r === s.length) e.end()
        else {
            const A = s[r]()
            A.pipe(e, { end: !1 })
            A.on('end', () => {
                t(r + 1)
            })
        }
    }
    t(0)
}

if (c.length > 0) {
    const e = new a.PassThrough()
    o = e
    for (const t of c) e.pipe(t)
}

const l = await F(G(e.slice(g + 1), t, r), {
    stdin: new S(A),
    stdout: new S(o),
    stderr: new S(i),
}).run()

return (await Promise.all(c.map((e) =>
    new Promise((t) =>
```
async function L(e, t, r) {
    const A = [],
    n = new a.PassThrough()
    return (n.on('data', (e) => A.push(e)),
        await W(e, t, R(r, { stdout: n })),
        Buffer.concat(A)
            .toString()
            .replace(/\[\r\n\]+$/, '')
    )
}
async function P(e, t, r) {
    const A = e.map(async (e) => {
        const A = await Y(e.args, t, r)
        return { name: e.name, value: A.join(' ') }
    })
    return (await Promise.all(A)).reduce((e, t) => ((e[t.name] = t.value), e),
    {})
}
function O(e) {
    return e.match(/[^ \r\n\t]+/) || []
}
async function U(e, t, r, A, n = A) {
    switch (e.name) {
    case '$':
        A(String(process.pid))
        break
    case '#':
        A(String(t.args.length))
        break
    case '@':
        if (e.quoted) for (const e of t.args) n(e)
        else
            for (const e of t.args) {

const t = O(e)
for (let e = 0; e < t.length - 1; ++e) n(t[e])
A(t[t.length - 1])
}
break
case '*':
{
    const r = t.args.join(' ')
    if (e.quoted) A(r)
    else for (const e of O(r)) n(e)
} 
break
case 'PPID':
A(String(process.ppid))
break
case 'RANDOM':
A(String(Math.floor(32768 * Math.random())))
break
default: {
    const n = parseInt(e.name, 10)
    if (Number.isFinite(n))
        if (n >= 0 && n < t.args.length) A(t.args[n]) 
        else {
            if (!e.defaultValue) throw new c('Unbound argument #' + n) 
                A((await Y(e.defaultValue, t, r)).join(' '))
        }
    else if ( Object.prototype.hasOwnProperty.call(r.variables, e.name) 
        A(r.variables[e.name])
    else if ( Object.prototype.hasOwnProperty.call(r.environment, e.name) 
        A(r.environment[e.name])
    else {
        if (!e.defaultValue) throw new c('Unbound variable "' + e.name + '"') 
            A((await Y(e.defaultValue, t, r)).join(' '))
    }
}

const T = {
    addition: (e, t) => e + t,
    subtraction: (e, t) => e - t,
    multiplication: (e, t) => e * t,
    division: (e, t) => Math.trunc(e / t),
}
async function j(e, t, r) {
if (‘number’ === e.type) {
    if (Number.isInteger(e.value)) return e.value
    throw new Error(
        ‘Invalid number: "$\{e.value\}$", only integers are allowed’,
    )
}

if (‘variable’ === e.type) {
    const A = []
    await U({ ...e, quoted: !0 }, t, r, (e) => A.push(e))
    const n = Number(A.join(‘ ’))
    return Number.isNaN(n) ? j({ type: ‘variable’, name: A.join(‘ ’) }, t, r) : j({ type: ‘number’, value: n }, t, r)
}

return T[e.type](await j(e.left, t, r), await j(e.right, t, r))
}

async function Y(e, t, r) {
    const A = new Map(),
    n = [],
    o = []
    const i = (e) => {
        o.push(e)
    },
    s = () => {
        o.length > 0 && n.push(o.join(‘ ’)), (o = [])
    },
    a = (e) => {
        i(e), s()
    },
    g = (e, t) => {
        let r = A.get(e)
        void 0 === r && A.set(e, (r = [])), r.push(t)
    }
    for (const A of e) {
        let e = !1
        switch (A.type) {
            case ‘redirection’:
            {
                const e = await Y(A.args, t, r)
                for (const t of e) g(A.subtype, t)
            }
            break
            case ‘argument’:
            for (const n of A.segments)
                switch (n.type) {
                    case ‘text’:
                        i(n.text)
                        break
                    case ‘variable’:
                        const A = {}
                        await U({ ...e, quoted: !0 }, t, r, (e) => A.push(e))
                        const n = Number(A.join(‘ ’))
                        return Number.isNaN(n) ? j({ type: ‘variable’, name: A.join(‘ ’) }, t, r) : j({ type: ‘number’, value: n }, t, r)
                    return T[e.type](await j(e.left, t, r), await j(e.right, t, r))
                }
        }
}

if (‘number’ === e.type) {
    if (Number.isInteger(e.value)) return e.value
    throw new Error(
        ‘Invalid number: "$\{e.value\}$", only integers are allowed’,
    )
}

if (‘variable’ === e.type) {
    const A = []
    await U({ ...e, quoted: !0 }, t, r, (e) => A.push(e))
    const n = Number(A.join(‘ ’))
    return Number.isNaN(n) ? j({ type: ‘variable’, name: A.join(‘ ’) }, t, r) : j({ type: ‘number’, value: n }, t, r)
}

return T[e.type](await j(e.left, t, r), await j(e.right, t, r))
}

async function Y(e, t, r) {
    const A = new Map(),
    n = [],
    o = []
    const i = (e) => {
        o.push(e)
    },
    s = () => {
        o.length > 0 && n.push(o.join(‘ ’)), (o = [])
    },
    a = (e) => {
        i(e), s()
    },
    g = (e, t) => {
        let r = A.get(e)
        void 0 === r && A.set(e, (r = [])), r.push(t)
    }
    for (const A of e) {
        let e = !1
        switch (A.type) {
            case ‘redirection’:
            {
                const e = await Y(A.args, t, r)
                for (const t of e) g(A.subtype, t)
            }
            break
            case ‘argument’:
            for (const n of A.segments)
                switch (n.type) {
                    case ‘text’:
                        i(n.text)
                        break
                    case ‘variable’:
                        const A = {}
                        await U({ ...e, quoted: !0 }, t, r, (e) => A.push(e))
                        const n = Number(A.join(‘ ’))
                        return Number.isNaN(n) ? j({ type: ‘variable’, name: A.join(‘ ’) }, t, r) : j({ type: ‘number’, value: n }, t, r)
                    return T[e.type](await j(e.left, t, r), await j(e.right, t, r))
                }
        }
    }
}

if (‘number’ === e.type) {
    if (Number.isInteger(e.value)) return e.value
    throw new Error(
        ‘Invalid number: "$\{e.value\}$", only integers are allowed’,
    )
}

if (‘variable’ === e.type) {
    const A = []
    await U({ ...e, quoted: !0 }, t, r, (e) => A.push(e))
    const n = Number(A.join(‘ ’))
    return Number.isNaN(n) ? j({ type: ‘variable’, name: A.join(‘ ’) }, t, r) : j({ type: ‘number’, value: n }, t, r)
}

return T[e.type](await j(e.left, t, r), await j(e.right, t, r))
}
case 'glob':
  i(n.pattern), (e = !0)
  break

case 'shell':
  {
    const e = await L(n.shell, t, r)
    if (n.quoted) i(e)
    else {
      const t = O(e)
      for (let e = 0; e < t.length - 1; ++e) a(t[e])
      i(t[t.length - 1])
    }
  }
  break

case 'variable':
  await U(n, t, r, i, a)
  break

case 'arithmetic':
  i(String(await j(n.arithmetic, t, r)))
} } }

if ((s(), e)) {
  const e = n.pop()
  if (void 0 === e)
    throw new Error(  'Assertion failed: Expected a glob pattern to have been set',  )
  const A = await t.glob.match(e, { cwd: r.cwd, baseFs: t.baseFs })
  if (0 !== A.length) {
    const t = m(e)
    ? . Note: Brace expansion of arbitrary strings isn't currently supported. For more details, please read this  issue: https://github.com/yarnpkg/berry/issues/22“
      : "
    throw new c('No matches found: "$[e]"$[t]"
  }
  for (const e of A.sort()) a(e)
} }

if (A.size > 0) {
  const e = []
  for (const [t, r] of A.entries())
    e.splice(e.length, 0, t, String(r.length), ...r)
  n.splice(0, 0, '__ysh_set_redirects', ...e, '--')
} return n

function G(e, t, r) {
  t.builtins.has(e[0]) || (e = ['command', ...e])
const A = n.cS.fromPortablePath(r.cwd)
let o = r.environment
void 0 !== o.PWD &
 const [i, ...s] = e
if ('command' === i)
return (function (e, t, r, A) {
  return (r) => {
    const n = r[0] instanceof a.Transform ? 'pipe' : r[0],
    o = r[1] instanceof a.Transform ? 'pipe' : r[1],
    s = D(t(e, t, { ...A, stdio: [n, o, i] })),
return (0 == v++ && process.on('SIGINT', b),
  r[0] instanceof a.Transform && r[0].pipe(s.stdin),
  r[1] instanceof a.Transform &&
  s.stdout.pipe(r[1], { end: !1 }),
  s.stderr.pipe(r[2], { end: !1 })),
  { stdin: s.stdin,
    promise: new Promise((t) => {
      s.on('error', (A) => {
        switch (0 == --v && process.off('SIGINT', b), A.code) {
          case 'ENOENT':
            r[2].write(`command not found: ${e}
`), t(127)
break
case 'EACCES':
            r[2].write(`permission denied: ${e}
`), t(128)
break
default:
            r[2].write(`uncaught error: ${A.message}
`), t(1)
          }
        }),
      s.on('exit', (e) => {
        0 == --v && process.off('SIGINT', b),
        t(null !== e ? e : 129)
      })
    }),
  })
})(s[0], s.slice(1), 0, { cwd: A, env: o })
const c = t.builtins.get(i)
if (void 0 === c)
throw new Error(
  `Assertion failed: A builtin should exist for "$i"`,
``
```
return (function (e) {
  return (t) => {
    const r = 'pipe' === t[0] ? new a.PassThrough() : t[0]
    return {
      stdin: r,
      promise: Promise.resolve().then(() =>
        e({ stdin: r, stdout: t[1], stderr: t[2] }),
      ),
    }
  }
})(
  async ({ stdin: e, stdout: A, stderr: n }) => {
    (r.stdin = e), (r.stdout = A), (r.stderr = n), await c(s, t, r)
  },
)

function H(e, t, r) {
  return (A) => {
    const n = new a.PassThrough()
    return { stdin: n, promise: W(e, t, R(r, { stdin: n })) }
  }
}

function J(e, t, r) {
  return (A) => ({ stdin: new a.PassThrough(), promise: W(e, t, r) })
}

function q(e, t, r, A) {
  if (0 === t.length) return e

  let n
  do {
    n = String(Math.random())
  } while (Object.prototype.hasOwnProperty.call(A.procedures, n))
  return (
    (A.procedures = { ...A.procedures }),
    (A.procedures[n] = e),
    G([...t, '__ysh_run_procedure', n], r, A)
  )
}

async function z(e, t, r) {
  let A
  const n = (e) => {
    (A = e), (r.variables['?'] = String(e))
  },
  o = async (e) => {
    try {
      return await (async function (e, t, r) {
```
let A = e,
n = null,
o = null
for (; A; ) {
  const e = A.then ? { ...r } : r
  let i
  switch (A.type) {
    case 'command':
      {
        const n = await Y(A.args, t, r),
        o = await P(A.envs, t, r)
        i = A.envs.length
        ? G(n, t, R(e, { environment: o })))
        : G(n, t, e)
      }
      break
    case 'subshell':
      {
        const n = await Y(A.args, t, r)
        i = q(H(A.subshell, t, e), n, t, e)
      }
      break
    case 'group':
      {
        const n = await Y(A.args, t, r)
        i = q(J(A.group, t, e), n, t, e)
      }
      break
    case 'envs': {
      const n = await P(A.envs, t, r)
      (e.environment = { ...e.environment, ...n }),
      (i = G(['true'], t, e))
    }
  }
  if (void 0 === i)
    throw new Error(
      'Assertion failed: An action should have been generated',
    )
  if (null === n)
    o = F(i, {
      stdin: new S(e.stdin),
      stdout: new S(e.stdout),
      stderr: new S(e.stderr),
    })
  else {
    if (null === o)
      throw new Error(
        'Assertion failed: The execution pipeline should have been setup',
      )
  }
}
```javascript
switch (n) {
    case '|':
        o = o.pipeTo(i, w.STDOUT)
        break
    case '|&':
        o = o.pipeTo(i, w.STDOUT | w.STDERR)
}

A.then
? ((n = A.then.type), (A = A.then.chain))
: (A = null)

if (null === o)
    throw new Error('Assertion failed: The execution pipeline should have been setup',
    )

return await o.run()
})(e, t, r)
}

catch (e) {
    if (!(e instanceof c)) throw e
    return r.stderr.write(e.message + '\n'), 1
}

for (n(await o(e.chain)); e.then; ) {
    if (null !== r.exitCode) return r.exitCode
    switch (e.then.type) {
        case '&&':
            0 === A && n(await o(e.then.line.chain))
            break
        case '||':
            0 !== A && n(await o(e.then.line.chain))
            break
        default:
            throw new Error('Assertion failed: Unsupported command type: "' + e.then.type + '"',
            )
    }
    e = e.then.line
}

return A
}

async function W(e, t, r) {
    let A = 0
    for (const n of e) {
        if (((A = await z(n, t, r)), null !== r.exitCode)) return r.exitCode
        r.variables['?'] = String(A)
    }
```
return A
}

function X(e) {
  switch (e.type) {
    case 'variable':
      return (
        '@' === e.name ||
        '#' === e.name ||
        '*' === e.name ||
        Number.isFinite(parseInt(e.name, 10)) ||
        ('defaultValue' in e &&
         !!e.defaultValue &&
         e.defaultValue.some((e) => V(e)))
      )
    case 'arithmetic':
      return (function e(t) {
        switch (t.type) {
          case 'variable':
            return X(t)
          case 'number':
            return !1
          default:
            return e(t.left) || e(t.right)
        }
      })(e.arithmetic)
    case 'shell':
      return _(e.shell)
    default:
      return !1
  }
}

function V(e) {
  switch (e.type) {
    case 'redirection':
      return e.args.some((e) => V(e))
    case 'argument':
      return e.segments.some((e) => X(e))
    default:
      throw new Error('Assertion failed: Unsupported argument type: "${e.type}"."
    }()
  }
}

function _(e) {
  return e.some((e) => {
    for (; e; ) {
      let t = e.chain
      for (; t; ) {

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let e
switch (t.type) {
    case 'subshell':
        e = _(t.subshell)
        break
    case 'command':
        e =
        t.envs.some((e) => e.args.some((e) => V(e))) ||
        t.args.some((e) => V(e))
    }
    if (e) return !0
    if (!t.then) break
    t = t.then.chain
    }
    if (!e.then) break
    e = e.then.line
    }
    return !1
})
}
async function Z(e, t = [], {
    baseFs: r = new o.S(),
    builtins: s = {},
    cwd: c = n.cS.toPortablePath(process.cwd()),
    env: g = process.env,
    stdin: l = process.stdin,
    stdout: u = process.stdout,
    stderr: h = process.stderr,
    variables: p = {},
    glob: d = A,
} = {}, ) {
    const C = {}
    for (const [e, t] of Object.entries(g)) void 0 !== t && (C[e] = t)
    const f = new Map(x)
    for (const [e, t] of Object.entries(s)) f.set(e, t)
    null === l && (l = new a.PassThrough()).end()
    const I = (0, i.parseShell)(e, d)
    if (!_(I) && I.length > 0 && t.length > 0) {
        let e = I[I.length - 1]
        for (; e.then; ) e = e.then.line
        let r = e.chain
        for (; r.then; ) r = r.then.chain
        'command' === r.type &&
        (r.args = r.args.concat(}
t.map((e) => {
  type: 'argument',
  segments: {[ 'type': 'text', text: e ]},
}),
)

return await W(
  I,
  {
    args: t,
    baseFs: r,
    builtins: f,
    initialStdin: l,
    initialStdout: u,
    initialStderr: h,
    glob: d,
  },
  {
    cwd: c,
    environment: C,
    exitCode: null,
    procedures: {},
    stdin: l,
    stdout: u,
    stderr: h,
    variables: Object.assign({}, p, { '?' : 0 }),
  },
)
)

45330: (e, t, r) => {
  t.e = () => {
    modules: new Map([{
      ['@yarnpkg/cli', r(25413)],
      ['@yarnpkg/core', r(53836)],
      ['@yarnpkg/fslib', r(43896)],
      ['@yarnpkg/libzip', r(65281)],
      ['@yarnpkg/parsers', r(11640)],
      ['@yarnpkg/shell', r(76756)],
      ['clipanion', r(40822)],
      ['semver', r(53887)],
      ['yup', r(15966)],
      ['@yarnpkg/plugin-essentials', r(34777)],
      ['@yarnpkg/plugin-compat', r(44692)],
      ['@yarnpkg/plugin-dlx', r(10189)],
      ['@yarnpkg/plugin-file', r(68023)],
      ['@yarnpkg/plugin-git', r(75641)],
      ['@yarnpkg/plugin-github', r(68126)],
    ])}
}
});
})
},

29148: (e, t, r) => {
    const A = r(74988),
    n = /^(.*?)(\x1b[\[^m]+m|\x1b\]8;;.*?\x1b|\u0007))/,
    o = new A()
    e.exports = (e, t = 0, r = e.length) => {
        if (t < 0 || r < 0)
            throw new RangeError("Negative indices aren't supported by this implementation",
    )
    const A = r - t
    let i = ",
    s = 0,
    a = 0
    for (; e.length > 0; ) {
        const r = e.match(n) || [e, e, void 0]
        let c = o.splitGraphemes(r[1])
        const g = Math.min(t - s, c.length)
        c = c.slice(g)
        const l = Math.min(A - a, c.length)
var t = n()
if (t && t.has(e)) return t.get(e)
var r = {},
o = Object.defineProperty && Object.getOwnPropertyDescriptor
for (var i in e)
    if (Object.prototype.hasOwnProperty.call(e, i)) {
        var s = o ? Object.getOwnPropertyDescriptor(e, i) : null
        s && (s.get || s.set)
            ? Object.defineProperty(r, i, s)
                : (r[i] = e[i])
    }
return (r.default = e), t && t.set(e, r), r
}
}
74943: (e) => {
e.exports = function (e, t) {
    if (null === e) return {}
    var r, A,
n = {},
o = Object.keys(e)
    for (A = 0; A < o.length; A++)
        (r = o[A]), t.indexOf(r) >= 0 || (n[r] = e[r])
    return n
}
}
62407: (e) => {
e.exports = function (e, t) {
    return t || (t = e.slice(0)), (e.raw = t), e
}
}
54694: (e) => {
    function t(r) {
        return (r
            'function' === typeof Symbol && 'symbol' === typeof Symbol.iterator
        )
            ? (e.exports = t = function (e) {
                return typeof e
            }
        )
            : (e.exports = t = function (e) {
                return e &&
                    'function' === typeof Symbol &&
                    e.constructor === Symbol &&
                    e !== Symbol.prototype
                ? 'symbol'
                : typeof e
            }),
        t(r)
    )}
e.exports = t
}

96117: (e, t, r) => {
  'use strict'
  Object.defineProperty(t, '_esModule', { value: !0 })
  const A = r(35747)
  const t.FILE_SYSTEM_ADAPTER = {
    lstat: A.lstat,
    stat: A.stat,
    lstatSync: A.lstatSync,
    statSync: A.statSync,
    readdir: A.readdir,
    readdirSync: A.readdirSync,
  },
  t.createFileSystemAdapter = function (e) {
    return void 0 === e
      ? t.FILE_SYSTEM_ADAPTER
      : Object.assign(Object.assign({}, t.FILE_SYSTEM_ADAPTER), e)
  })
},

79774: (e, t) => {
  'use strict'
  Object.defineProperty(t, '_esModule', { value: !0 })
  const A = process.versions.node.split('.'),
    n = parseInt(A[1], 10),
    i = A > 10,
    o = 10 === A && n >= 10
  t.IS_SUPPORT_READDIR_WITH_FILE_TYPES = o || i
},

85670: (e, t, r) => {
  'use strict'
  Object.defineProperty(t, '_esModule', { value: !0 })
  const A = r(31020),
    n = r(35516),
    o = r(38844)
  function i(e = {}) {
    return e instanceof o.default ? e : new o.default(e)
  }
  const t.Settings = o.default,
    t.scandir = function (e, t, r) {
      if ('function' !== typeof t) return A.read(e, i(), t)
      A.read(e, i(t), r)
    },
    t.scandirSync = function (e, t) {
      const r = i(t)
      return n.read(e, r)
    }
};(t.Settings = o.default),
(t.scandir = function (e, t, r) {
  if ('function' !== typeof t) return A.read(e, i(), t)
  A.read(e, i(t), r)
}),
(t.scandirSync = function (e, t) {
  const r = i(t)
  return n.read(e, r)
'use strict'

Object.defineProperty(t, '_esModule', { value: !0 })

const A = r(53403),
    n = r(69078),
    o = r(79774),
    i = r(65225)

function s(e, t, r) {
    t.fs.readdir(e, { withFileTypes: '0' }, (A, o) => {
        if (null !== A) return c(r, A)
        const s = o.map((r) => {
            dirent: r,
            name: r.name,
            path: `${e}${t.pathSegmentSeparator}${r.name}`
        })
        if (!t.followSymbolicLinks) return g(r, s)
        const a = s.map((e) => {
            return (r) => {
                if (!e.dirent.isSymbolicLink()) return r(null, e)
                t.fs.stat(e.path, (A, n) => {
                    if (null !== A) return r(A)
                    t.throwErrorOnBrokenSymbolicLink
                        ? r(A)
                        : ((e.dirent = i.fs.createDirentFromStats(e.name, n)),
                        r(null, e)),
                }
            }
        })(e, t),
        n(a, (e, t) => {
            if (null !== e) return c(r, e)
            g(r, t)
        })
    })
}

function a(e, t, r) {
    t.fs.readdir(e, (o, s) => {
        if (null !== o) return c(r, o)
        const a = s.map((r) => `${e}${t.pathSegmentSeparator}${r}`),
            l = a.map((e) => A.stat(e, t.fsStatSettings, r))
        n(l, (e, A) => {
            if (null !== e) return c(r, e)
            g(r, t)
        })
    })
}

function c(e, t) {
    t.conn.end()

```javascript
const o = A[r],
  s = {
    name: e,
    path: a[r],
    dirent: i.fs.createDirentFromStats(e, o),
  }
  t.stats && (s.stats = o), n.push(s)
  ),
  g(r, n)
})
})
})
}
function c(e, t) {
  e(t)
}
function g(e, t) {
  e(null, t)
}
:t.read = function (e, t, r) {
  return !t.stats && o.IS_SUPPORT_READDIR_WITH_FILE_TYPES
    ? s(e, t, r)
    : a(e, t, r)
  },
  (t.readdirWithFileTypes = s),
  (t.readdir = a)
},
35516: (e, t, r) => {
  'use strict'
  Object.defineProperty(t, '__esModule', { value: !0 })
  const A = r(53403),
    n = r(79774),
    o = r(65225)
  function i(e, t) {
    return t.fs.readdirSync(e, { withFileTypes: '0' }).map((r) => {
      const A = {
        dirent: r,
        name: r.name,
        path: `${e}${t.pathSegmentSeparator}${r.name}`,
      }
      if (A.dirent.isSymbolicLink() && t.followSymbolicLinks)
        try {
          const e = t.fs.statSync(A.path)
          A.dirent = o.fs.createDirentFromStats(A.name, e)
        } catch (e) {
          if (t.throwErrorOnBrokenSymbolicLink) throw e
        }
      return A
    })
```
function s(e, t) {
    return t.fs.readdirSync(e).map((r) => {
        const n = `${e}${t.pathSegmentSeparator}${r}`,
        i = A.statSync(n, t.fsStatSettings),
        s = { name: r, path: n, dirent: o.fs.createDirentFromStats(r, i) }
        return t.stats && (s.stats = i), s
    })
}

const read = function (e, t) {
    return !t.stats && n.IS_SUPPORT_READDIR_WITH_FILE_TYPES
    ? i(e, t)
    : s(e, t)
},
(n.readdirWithFileTypes = i),
(n.readdir = s)

38844: (e, t, r) => {
    'use strict'
    Object.defineProperty(t, '_esModule', { value: !0 })
    const A = r(85622),
        n = r(53403),
        o = r(96117)
    t.default = class {
    constructor(e = {}) {
        (this._options = e),
        (this.followSymbolicLinks = this._getValue(
            this._options.followSymbolicLinks,
            !1,
        )),
        (this.fs = o.createFileSystemAdapter(this._options.fs)),
        (this.pathSegmentSeparator = this._getValue(
            this._options.pathSegmentSeparator,
            A.sep,
        )),
        (this.stats = this._getValue(this._options.stats, !1)),
        (this.throwErrorOnBrokenSymbolicLink = this._getValue(
            this._options.throwErrorOnBrokenSymbolicLink,
            !0,
        )),
        (this.fsStatSettings = new n.Settings({
            followSymbolicLink: this.followSymbolicLinks,
            fs: this.fs,
            throwErrorOnBrokenSymbolicLink: this
                .throwErrorOnBrokenSymbolicLink,
        }));
    }
    _getValue(e, t) {
return void 0 === e ? t : e
}
}
},
72156: (e, t) => {
'use strict'
Object.defineProperty(t, '__esModule', { value: !0 })
class r {
  constructor(e, t) {
    (this.name = e),
    (this.isBlockDevice = t.isBlockDevice.bind(t)),
    (this.isCharacterDevice = t.isCharacterDevice.bind(t)),
    (this.isDirectory = t.isDirectory.bind(t)),
    (this.isFIFO = t.isFIFO.bind(t)),
    (this.isFile = t.isFile.bind(t)),
    (this.isSocket = t.isSocket.bind(t)),
    (this.isSymbolicLink = t.isSymbolicLink.bind(t))
  }
}

createDirentFromStats = function (e, t) {
  return new r(e, t)
}
},
65225: (e, t, r) => {
'use strict'
Object.defineProperty(t, '__esModule', { value: !0 })
const A = r(72156)

fs = A
},
71208: (e, t, r) => {
'use strict'
Object.defineProperty(t, '__esModule', { value: !0 })
const A = r(35747)

;({FILE_SYSTEM_ADAPTER: {lstat: A.lstat,
  stat: A.stat,
  lstatSync: A.lstatSync,
  statSync: A.statSync,
}}),

createFileSystemAdapter = function (e) {
  return void 0 === e
  ? t.FILE_SYSTEM_ADAPTER
    : Object.assign(Object.assign({}, t.FILE_SYSTEM_ADAPTER), e)
}
},
53403: (e, t, r) => {
'use strict'
Object.defineProperty(t, '__esModule', { value: !0 })
const A = r(17790),
n = r(34846),
o = r(92687)
function i(e = {}) {
    return e instanceof o.default ? e : new o.default(e)
}
;(t.Settings = o.default),
(t.stat = function (e, t, r) {
    if ('function' === typeof t) return A.read(e, i(), t)
    A.read(e, i(t), r)
}),
(t.statSync = function (e, t) {
    const r = i(t)
    return n.read(e, r)
}), 17790: (e, t) => {
    'use strict'
    function r(e, t) {
        e(t)
    }
    function A(e, t) {
        e(null, t)
    }
    Object.defineProperty(t, '__esModule', { value: !0 }),
    (t.read = function (e, t, n) {
        t.fs.lstat(e, (o, i) =>
            null !== o
            ? r(n, o)
            : i.isSymbolicLink() && t.followSymbolicLink
            ? void t.fs.stat(e, (e, o) => {
                if (null !== e)
                    return t.throwErrorOnBrokenSymbolicLink
                    ? r(n, e)
                    : A(n, i)
            t.markSymbolicLink && (o.isSymbolicLink = () => !0), A(n, o)
        })
        : A(n, i),
    })
}, 34846: (e, t) => {
    'use strict'
    Object.defineProperty(t, '__esModule', { value: !0 }),
    (t.read = function (e, t) {
        const r = t.fs.lstatSync(e)
        if (!r.isSymbolicLink() || !t.followSymbolicLink) return r
        try {
const r = t.fs.statSync(e)
return t.markSymbolicLink && (r.isSymbolicLink = () => !0), r
} catch (e) {
  if (!t.throwErrorOnBrokenSymbolicLink) return r
  throw e
}
)
})
92687: (e, t, r) => {
  'use strict'
Object.defineProperty(t, '__esModule', { value: !0 })
const A = r(71208)
t.default = class {
  constructor(e = {}) {
    (this._options = e),
    (this.followSymbolicLink = this._getValue(
      this._options.followSymbolicLink,
      !0,
    )),
    (this.fs = A.createFileSystemAdapter(this._options.fs)),
    (this.markSymbolicLink = this._getValue(
      this._options.markSymbolicLink,
      !1,
    )),
    (this.throwErrorOnBrokenSymbolicLink = this._getValue(
      this._options.throwErrorOnBrokenSymbolicLink,
      !0,
    ))
  }
  _getValue(e, t) {
    return void 0 === e ? t : e
  }
}
},
72897: (e, t, r) => {
  'use strict'
Object.defineProperty(t, '__esModule', { value: !0 })
const A = r(42369),
n = r(27696),
o = r(22111),
i = r(14954)
function s(e = {}) {
  return e instanceof i.default ? e : new i.default(e)
};(t.Settings = i.default),
(t.walk = function (e, t, r) {
  if ('function' === typeof t) return new A.default(e, s()).read(t)
  new A.default(e, s(t)).read(r)
(this._reader = new n.default(this._root, this._settings)),
(this._stream = new A.Readable({
    objectMode: !0,
    read: () => { },
    destroy: this._reader.destroy.bind(this._reader),
}))
}
read() {
    return (
        this._reader.onError((e) => {
            this._stream.emit('error', e)
        }),
        this._reader.onEntry((e) => {
            this._stream.push(e)
        }),
        this._reader.onEnd(() => {
            this._stream.push(null)
        }),
        this._reader.read(),
        this._stream
    )
}
}
}

22111: (e, t, r) => {
    'use strict'
    Object.defineProperty(t, '__esModule', { value: !0 })
    const A = r(97835)
    t.default = class {
        constructor(e, t) {
            (this._root = e),
            (this._settings = t),
            (this._reader = new A.default(this._root, this._settings))
        }
        read() {
            return this._reader.read()
        }
    }
}

98566: (e, t, r) => {
    'use strict'
    Object.defineProperty(t, '__esModule', { value: !0 })
    const A = r(28614),
        n = r(85670),
        o = r(98360),
        i = r(10750),
        s = r(75504)
    class a extends s.default {

constructor(e, t) {
    super(e, t),
    (this._settings = t),
    (this._scandir = n.scandir),
    (this._emitter = new A.EventEmitter()),
    (this._queue = o(
        this._worker.bind(this),
        this._settings.concurrency,
    )),
    (this._isFatalError = !1),
    (this._isDestroyed = !1),
    (this._queue.drain = () => {
        this._isFatalError || this._emitter.emit('end')
    }),
    read() {
        return (this._isFatalError = !1),
        (this._isDestroyed = !1),
        setImmediate(() => {
            this._pushToQueue(this._root, this._settings.basePath)
        }),
        this._emitter
    },
    destroy() {
        if (this._isDestroyed)
            throw new Error('The reader is already destroyed')
        ;(this._isDestroyed = !0), this._queue.killAndDrain()
    },
    onEntry(e) {
        this._emitter.on('entry', e)
    },
    onError(e) {
        this._emitter.once('error', e)
    },
    onEnd(e) {
        this._emitter.once('end', e)
    },
    _pushToQueue(e, t) {
        const r = { directory: e, base: t }
        this._queue.push(r, (e) => {
            null !== e && this._handleError(e)
        })
    },
    _worker(e, t) {
        this._scandir( e.directory,
```javascript
this._settings.fsScandirSettings,
(r, A) => {
  if (null !== r) return t(r, void 0)
  for (const t of A) this._handleEntry(t, e.base)
  t(null, void 0)
},
)
}

_handleError(e) {
i.isFatalError(this._settings, e) &&
  ((this._isFatalError = !0),
  (this._isDestroyed = !0),
  this._emitter.emit('error', e))
}

_handleEntry(e, t) {
  if (this._isDestroyed || this._isFatalError) return
  const r = e.path
  void 0 !== t &&
  (e.path = i.joinPathSegments(,
    t,
    e.name,
    this._settings.pathSegmentSeparator,
  )),
  i.isAppliedFilter(this._settings.entryFilter, e) &&
  this._emitEntry(e),
  e.dirent.isDirectory() &&
  i.isAppliedFilter(this._settings.deepFilter, e) &&
  this._pushToQueue(r, e.path)
}

_emitEntry(e) {
  this._emitter.emit('entry', e)
}
)

t.default = a
},

10750: (e, t) => {
  'use strict'
  Object.defineProperty(t, '_esModule', { value: !0 } ),
  (t.isFatalError = function (e, t) {
    return null === e.errorFilter || !e.errorFilter(t)
  }),
  (t.isAppliedFilter = function (e, t) {
    return null === e || e(t)
  }),
  (t.replacePathSegmentSeparator = function (e, t) {
    return e.split(/[/\]/).join(t)
  }),
  (t.joinPathSegments = function (e, t, r) {
```
return "== e ? t : e + r + t
}

75504: (e, t, r) => {
  'use strict'
  Object.defineProperty(t, '__esModule', { value: !0 })
  const A = r(10750)
  t.default = class {
    constructor(e, t) {
      ;(this._root = e),
      (this._settings = t),
      (this._root = A.replacePathSegmentSeparator(e,
        t.pathSegmentSeparator,
      ))
    }
  }
}

97835: (e, t, r) => {
  'use strict'
  Object.defineProperty(t, '__esModule', { value: !0 })
  const A = r(85670),
    n = r(10750),
    o = r(75504)
  class i extends o.default {
    constructor() {
      super(...arguments),
      (this._scandir = A.scandirSync),
      (this._storage = new Set()),
      (this._queue = new Set())
    }
    read() {
      return (e, t, r) => {
        const A = r(10750)
        t.default = class {
          constructor(e, t) {
            ;(this._root = e),
            (this._settings = t),
            (this._root = A.replacePathSegmentSeparator(e,
              t.pathSegmentSeparator,
            ))
          }
        }
      }
    }
    _pushToQueue(e, t) {
      this._queue.add({ directory: e, base: t })
    }
  }
}

97835: (e, t, r) => {
  'use strict'
  Object.defineProperty(t, '__esModule', { value: !0 })
  const A = r(85670),
    n = r(10750),
    o = r(75504)
  class i extends o.default {
    constructor() {
      super(...arguments),
      (this._scandir = A.scandirSync),
      (this._storage = new Set()),
      (this._queue = new Set())
    }
    read() {
      return (e, t, r) => {
        const A = r(10750)
        t.default = class {
          constructor(e, t) {
            ;(this._root = e),
            (this._settings = t),
            (this._root = A.replacePathSegmentSeparator(e,
              t.pathSegmentSeparator,
            ))
          }
        }
      }
    }
    _pushToQueue(e, t) {
      this._queue.add({ directory: e, base: t })
    }
  }
}

97835: (e, t, r) => {
  'use strict'
  Object.defineProperty(t, '__esModule', { value: !0 })
  const A = r(85670),
    n = r(10750),
    o = r(75504)
  class i extends o.default {
    constructor() {
      super(...arguments),
      (this._scandir = A.scandirSync),
      (this._storage = new Set()),
      (this._queue = new Set())
    }
    read() {
      return (e, t, r) => {
        const A = r(10750)
        t.default = class {
          constructor(e, t) {
            ;(this._root = e),
            (this._settings = t),
            (this._root = A.replacePathSegmentSeparator(e,
              t.pathSegmentSeparator,
            ))
          }
        }
      }
    }
    _pushToQueue(e, t) {
      this._queue.add({ directory: e, base: t })
    }
  }
}

97835: (e, t, r) => {
  'use strict'
  Object.defineProperty(t, '__esModule', { value: !0 })
  const A = r(85670),
    n = r(10750),
    o = r(75504)
  class i extends o.default {
    constructor() {
      super(...arguments),
      (this._scandir = A.scandirSync),
      (this._storage = new Set()),
      (this._queue = new Set())
    }
    read() {
      return (e, t, r) => {
        const A = r(10750)
        t.default = class {
          constructor(e, t) {
            ;(this._root = e),
            (this._settings = t),
            (this._root = A.replacePathSegmentSeparator(e,
              t.pathSegmentSeparator,
            ))
          }
        }
      }
    }
    _pushToQueue(e, t) {
      this._queue.add({ directory: e, base: t })
    }
  }
}

97835: (e, t, r) => {
  'use strict'
  Object.defineProperty(t, '__esModule', { value: !0 })
  const A = r(85670),
    n = r(10750),
    o = r(75504)
  class i extends o.default {
    constructor() {
      super(...arguments),
      (this._scandir = A.scandirSync),
      (this._storage = new Set()),
      (this._queue = new Set())
    }
    read() {
      return (e, t, r) => {
        const A = r(10750)
        t.default = class {
          constructor(e, t) {
            ;(this._root = e),
            (this._settings = t),
            (this._root = A.replacePathSegmentSeparator(e,
              t.pathSegmentSeparator,
            ))
          }
        }
      }
    }
    _pushToQueue(e, t) {
      this._queue.add({ directory: e, base: t })
    }
  }
}

97835: (e, t, r) => {
  'use strict'
  Object.defineProperty(t, '__esModule', { value: !0 })
  const A = r(85670),
    n = r(10750),
    o = r(75504)
  class i extends o.default {
    constructor() {
      super(...arguments),
      (this._scandir = A.scandirSync),
      (this._storage = new Set()),
      (this._queue = new Set())
    }
    read() {
      return (e, t, r) => {
        const A = r(10750)
        t.default = class {
          constructor(e, t) {
            ;(this._root = e),
            (this._settings = t),
            (this._root = A.replacePathSegmentSeparator(e,
              t.pathSegmentSeparator,
            ))
          }
        }
      }
    }
    _pushToQueue(e, t) {
      this._queue.add({ directory: e, base: t })
    }
  }
}
for (const e of r) this._handleEntry(e, t)
} catch (e) {
    this._handleError(e)
}

function _handleError(e) {
    if (n.isFatalError(this._settings, e)) throw e
}

function _handleEntry(e, t) {
    const r = e.path
    void 0 !== t &&
    (e.path = n.joinPathSegments(
        t,
        e.name,
        this._settings.pathSegmentSeparator,
    ),
    n.isAppliedFilter(this._settings.entryFilter, e) &&
    this._pushToStorage(e),
    e.dirent.isDirectory() &&
    n.isAppliedFilter(this._settings.deepFilter, e) &&
    this._pushToQueue(r, e.path)
}

function _pushToStorage(e) {
    this._storage.add(e)
}

}

t.default = i
}

14954: (e, t, r) => {
    'use strict'
    Object.defineProperty(t, '_esModule', { value: !0 })
    const A = r(85622),
    n = r(85670)
    t.default = class {
        constructor(e = []) {
            (this._options = e),
            (this.basePath = this._getValue(this._options.basePath, void 0)),
            (this.concurrency = this._getValue(
                this._options.concurrency,
                1 / 0,
            )),
            (this.deepFilter = this._getValue(
                this._options.deepFilter,
                null,
            )),
            (this.entryFilter = this._getValue(
                this._options.entryFilter,
                null,
            )},
        }
    }

function _getValue(e, t) {
    return t === void 0 ? e : t
}

function isFatalError(e, t) {
    return null === e || e.name === t
}

function joinPathSegments(e, t) {
    return e.map((r, n) => r !== t && (r += t), t)
}

function getEntries(e) {
    return e.
        map((r, n) => r
            .filter((e) => !n.isAppliedFilter(e, e)),
            t Sir)
        .reduce((e, t) => e.push(t), t)
        .filter((e) => e)
    .map((r, n) => r)
    .reduce((e, t) => e.push(t), t)
    .filter((e) => e)
    .map((r, n) => r)
    .reduce((e, t) => e.push(t), t)
    .filter((e) => e)
    .map((r, n) => r)
    .reduce((e, t) => e.push(t), t)
    .filter((e) => e)
    .map((r, n) => r)
    .reduce((e, t) => e.push(t), t)
    .filter((e) => e)
this.errorFilter = this._getValue(
    this._options.errorFilter,
    null,
),
this.pathSegmentSeparator = this._getValue(
    this._options.pathSegmentSeparator,
    A.sep,
),
this.fsScandirSettings = new n.Settings(
    followSymbolicLinks: this._options.followSymbolicLinks,
    fs: this._options.fs,
    pathSegmentSeparator: this._options.pathSegmentSeparator,
    stats: this._options.stats,
    throwErrorOnBrokenSymbolicLink: this._options
    .throwErrorOnBrokenSymbolicLink,
));

_getValue(e, t) {
    return void 0 === e ? t : e
}

7966: (e, t) => {
    'use strict'
    Object.defineProperty(t, '__esModule', { value: !0 })
    const r = [
        'Int8Array',
        'Uint8Array',
        'Uint8ClampedArray',
        'Int16Array',
        'Uint16Array',
        'Int32Array',
        'Uint32Array',
        'Float32Array',
        'Float64Array',
        'BigInt64Array',
        'BigUint64Array',
    ]
    const A = [
        'Function',
        'Generator',
        'AsyncGenerator',
        'GeneratorFunction',
        'AsyncGeneratorFunction',
        'AsyncFunction',
        'Observable',
        'Array',
    ]
`Buffer`,
`Object`,
`RegExp`,
`Date`,
`Error`,
`Map`,
`Set`,
`WeakMap`,
`WeakSet`,
`ArrayBuffer`,
`SharedArrayBuffer`,
`DataView`,
`Promise`,
`URL`,
`HTMLInputElement`,
...
]

const n = [
  'null',
  'undefined',
  'string',
  'number',
  'bigint',
  'boolean',
  'symbol',
]

function o(e) {
  return (t) => typeof t === e
}

const { toString: i } = Object.prototype,

s = (e) => {
  const t = i.call(e).slice(8, -1)
  return /HTML\w+Element/.test(t) && c.domElement(e)
    ? 'HTMLElement'
    :
      (r = t), A.includes(r) ? t : void 0
  var r
},

a = (e) => (t) => s(t) === e

function c(e) {
  if (null === e) return 'null'
  switch (typeof e) {
    case 'undefined':
      return 'undefined'
    case 'string':
      return 'string'
    case 'number':
      return 'number'
    case 'boolean':
```

```
null === (t = e) || void 0 !== t
  ? void 0
  : t.constructor) || void 0 !== r
  ? void 0
  : r.isBuffer) || void 0 !== A
  ? void 0
  : A.call(r, e)) &&
  void 0 !== n &&
  n
}),
(c.nullOrUndefined = (e) => c.null_(e) || c.undefined(e)),
(c.object = (e) =>
  !c.null_(e) && ('object' == typeof e || c.function_(e))),
(c.iterable = (e) => {
  var t
  return c.function_(
    null === (t = e) || void 0 !== t ? t.$Symbol.iterator.
  )
}),
(c.asyncIterable = (e) => {
  var t
  return c.function_(
    null === (t = e) || void 0 !== t
    ? void 0
    : t.$Symbol.asyncIterator,
  )
}),
(c.generator = (e) => c.iterable(e) && c.function_(e.next) && c.function_(e.throw)),
(c.asyncGenerator = (e) => c.asyncIterable(e) && c.function_(e.next) && c.function_(e.throw)),
(c.nativePromise = (e) => a('Promise')(e))
:(c.promise = (e) =>
  c.nativePromise(e) ||
  (e) => {
    var t, r
    return (c.function_(null === (t = e) || void 0 !== t ? t.then) &&
      c.function_(null === (r = e) || void 0 !== r ? r.catch)
    )
  })(e),
(c.generatorFunction = a('GeneratorFunction')),
(c.asyncGeneratorFunction = (e) => 'AsyncGeneratorFunction' === s(e)),
(c.asyncFunction = (e) => 'AsyncFunction' === s(e)),
(c.boundFunction = (e) =>
  c.function_(e) && !e.hasOwnProperty('prototype')),
(c.regExp = a('RegExp')),
(c.date = a('Date')), (c.error = a('Error')), (c.map = (e) => a('Map')(e)), (c.set = (e) => a('Set')(e)), (c.weakMap = (e) => a('WeakMap')(e)), (c.weakSet = (e) => a('WeakSet')(e)), (c.int8Array = a('Int8Array')), (c.uint8Array = a('Uint8Array')), (c.uint8ClampedArray = a('Uint8ClampedArray')), (c.int16Array = a('Int16Array')), (c.uint16Array = a('Uint16Array')), (c.int32Array = a('Int32Array')), (c.uint32Array = a('Uint32Array')), (c.float32Array = a('Float32Array')), (c.float64Array = a('Float64Array')), (c.bigInt64Array = a('BigInt64Array')), (c.bigUint64Array = a('BigUint64Array')), (c.arrayBuffer = a('ArrayBuffer')), (c.dataView = a('DataView')), (c.directInstanceOf = (e, t) => Object.getPrototypeOf(e) === t.prototype), (c.urlInstance = (e) => a('URL')(e)), (c.urlString = (e) => { if (!c.string(e)) return !1 try { return new URL(e), !0 } catch (e) { return !1 } }), (c.truthy = (e) => Boolean(e)), (c.falsy = (e) => !e), (c.nan = (e) => Number.isNaN(e)), (c.primitive = (e) => { return c.null_((e) || (t = typeof e), n.includes(t)) var t }), (c.integer = (e) => Number.isInteger(e)), (c.safeInteger = (e) => Number.isSafeInteger(e)), (c.plainObject = (e) => { if ('[object Object]' !== i.call(e)) return !1 const t = Object.getPrototypeOf(e) return null === t || t === Object.getPrototypeOf({ }) }), (c.typedArray = (e) => { return t = s(e), r.includes(t) var t })
const h = (e, t, r) => {
  if (!c.function_(t))
    throw new TypeError('Invalid predicate: ' + JSON.stringify(t))
  if (0 === r.length) throw new TypeError('Invalid number of values')
  return e.call(r, t)
}

;c.any = (e, ...t) =>
  (c.array(e) ? e : [e]).some((e) => h(Array.prototype.some, e, t)),
;all = (e, ...t) => h(Array.prototype.every, e, t)

const p = (e, t, r) => {
  if (!e)
    throw new TypeError(`Expected value which is \`${t}\`, received value of type \`${c(r)}\`.`,
    )
}

;assert = {
  undefined: (e) => p(c.undefined(e), 'undefined', e),
  string: (e) => p(c.string(e), 'string', e),
  number: (e) => p(c.number(e), 'number', e),
  bigint: (e) => p(c.bigint(e), 'bigint', e),
  function_: (e) => p(c.function_(e), 'Function', e),
  null_: (e) => p(c.null_(e), 'null', e),
  class_: (e) => p(c.class_(e), 'Class', e),
  boolean: (e) => p(c.boolean(e), 'boolean', e),
  symbol: (e) => p(c.symbol(e), 'symbol', e),
  numericString: (e) =>
    p(c.numericString(e), 'string with a number', e),
  array: (e, t) => {
    p(c.array(e), 'Array', e), t && e.forEach(t)
  },
  buffer: (e) => p(c.buffer(e), 'Buffer', e),
  nullOrUndefined: (e) =>
    p(c.nullOrUndefined(e), 'null or undefined', e),
observable: (e) => p(c.observable(e), 'Observable', e),
nodeStream: (e) => p(c.nodeStream(e), 'Node.js Stream', e),
infinite: (e) => p(c.infinite(e), 'infinite number', e),
emptyArray: (e) => p(c.emptyArray(e), 'empty array', e),
nonEmptyArray: (e) => p(c.nonEmptyArray(e), 'non-empty array', e),
emptyString: (e) => p(c.emptyString(e), 'empty string', e),
nonEmptyString: (e) => p(c.nonEmptyString(e), 'non-empty string', e),
emptyStringOrWhitespace: (e) => p(c.emptyStringOrWhitespace(e), 'empty string or whitespace', e),
emptyObject: (e) => p(c.emptyObject(e), 'empty object', e),
nonEmptyObject: (e) => p(c.nonEmptyObject(e), 'non-empty object', e),
emptySet: (e) => p(c.emptySet(e), 'empty set', e),
nonEmptySet: (e) => p(c.nonEmptySet(e), 'non-empty set', e),
emptyMap: (e) => p(c.emptyMap(e), 'empty map', e),
nonEmptyMap: (e) => p(c.nonEmptyMap(e), 'non-empty map', e),
evenInteger: (e) => p(c.evenInteger(e), 'even integer', e),
oddInteger: (e) => p(c.oddInteger(e), 'odd integer', e),
directInstanceOf: (e, t) => p(c.directInstanceOf(e, t), 'T', e),
inRange: (e, t) => p(c.inRange(e, t), 'in range', e),
any: (e, ...t) => p(c.any(e, ...t), 'predicate returns truthy for any value', t),
all: (e, ...t) => p(c.all(e, ...t), 'predicate returns truthy for all values', t),

Object.defineProperties(c, {
  class: { value: c.class_ },
  function: { value: c.function_ },
  null: { value: c.null_ },
}),

Object.defineProperties(t.assert, {
  class: { value: t.assert.class_ },
  function: { value: t.assert.function_ },
  null: { value: t.assert.null_ },
}),
(t.default = c),
(e.exports = c),
(e.exports.default = c),
(e.exports.assert = t.assert)
},
98298: (e, t, r) => {
  'use strict'
  Object.defineProperty(t, '__esModule', { value: !0 })
  const A = r(93121),
    n = Number(process.versions.node.split('.')[0]),
    o = (e) => {
      const t = {
        start: Date.now(),
        socket: void 0,
        ...e
      },
      r = o(t),
      i = t
    },
    s = {}
    Object.keys(A).forEach((e) => {
      if (e !== '__esModule')
        Object.defineProperty(A, e, { value: A[e] })
    }),
    a = Object.assign(A, s),
    c = a

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lookup: void 0,
connect: void 0,
secureConnect: void 0,
upload: void 0,
response: void 0,
end: void 0,
error: void 0,
abort: void 0,
phases: {
    wait: void 0,
dns: void 0,
tcp: void 0,
tls: void 0,
request: void 0,
firstByte: void 0,
download: void 0,
total: void 0,
},
}
e.timings = t
const r = (e) => {
    const r = e.emit.bind(e)
e.emit = (A, ...n) => {
        'error' === A &&
        ((t.error = Date.now()),
            (t.phases.total = t.error - t.start),
            (e.emit = r),
            r(A, ...n)
    }
}
r(e),
e.prependOnceListener('abort', () => {
    (t.abort = Date.now()),
        (t.response || n >= 13) &&
            (t.phases.total = Date.now() - t.start)
})
const o = (e) => {
    (t.socket = Date.now()), (t.phases.wait = t.socket - t.start)
    const r = () => {
        (t.lookup = Date.now()), (t.phases.dns = t.lookup - t.socket)
    }
e.prependOnceListener('lookup', r),
    A.default(e, {
        connect: () => {
            (t.connect = Date.now()),
            void 0 === t.lookup &&
                (e.removeListener('lookup', r),
                    (t.lookup = t.connect),
            )
        }
    })
}
(t.phases.dns = t.lookup - t.socket),
(t.phases.tcp = t.connect - t.lookup)
",
secureConnect: () => {
  :(t.secureConnect = Date.now()),
  (t.phases.tls = t.secureConnect - t.connect)
},
})
}
}
e.socket ? o(e.socket) : e.prependOnceListener('socket', o)
const i = () => {
  var e
  :(t.upload = Date.now()),
  (t.phases.request =
    t.upload - (null != (e = t.secureConnect) ? e : t.connect))
}
return (  
  'boolean' == typeof e.writableFinished  
  ? !e.writableFinished  
    : !e.finished ||  
      0 !== e.outputSize ||  
        (e.socket && 0 !== e.socket.writableLength)  
  )  
  ? e.prependOnceListener('finish', i)  
    : i(),
e.prependOnceListener('response', (e) => {
  :(t.response = Date.now()),
  (t.phases.firstByte = t.response - t.upload),
  (e.timings = t),
  r(e),
e.prependOnceListener('end', () => {
  :(t.end = Date.now()),
  (t.phases.download = t.end - t.response),
  (t.phases.total = t.end - t.start)
}),
}),
t  
};(t.default = o), (e.exports = o), (e.exports.default = o)
}
58069: (e, t, r) => {
  'use strict'
  l.ifExists = function (e, t, r) {
    return l(e, t, r).catch(() => { })
  }
  const A = r(31669),

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n = r(46227),
o = r(85622),
i = r(97369),
s = /^#!\s*(?:/usr/bin/env)?\s*(\[^ \t\]+)(.*)$/,
a = { createPwshFile: !0, createCmdFile: i(), fs: r(35747) },
c = new Map([[
'.'js', 'node'],
'.'cmd', 'cmd'],
['bat', 'cmd'],
['ps1', 'pwsh'],
['sh', 'sh'],
])
function g(e) {
  const t = { ...a, ...e },
  r = t.fs
  return (t.fs_ = {
    chmod: r.chmod ? A.promisify(r.chmod) : async () => {},
    stat: A.promisify(r.stat),
    unlink: A.promisify(r.unlink),
    readFile: A.promisify(r.readFile),
    writeFile: A.promisify(r.writeFile),
  },
  t)
}
async function l(e, t, r) {
  const A = g(r)
  await A.fs_.stat(e),
  await (async function (e, t, r) {
    const A = await (async function (e, t) {
      const r = await t.fs_.readFile(e, 'utf8'),
      A = r.trim().split(/*\n/)[0].match(s)
      if (!A) {
        const t = o.extname(e).toLowerCase()
        return { program: c.get(t) || null, additionalArgs: '' }
      }
    })(e, t)
    return (function (e, t, r, A) {
      const n = g(A),
      o = [{ generator: h, extension: '' }]
      n.createCmdFile && o.push({ generator: u, extension: '.cmd' })
      n.createPwshFile &&
  })(e, t, r, A)
}
async function l(e, t, r) {
  const A = g(r)
  await A.fs_.stat(e),
  await (async function (e, t, r) {
    const A = await (async function (e, t) {
      const r = await t.fs_.readFile(e, 'utf8'),
      A = r.trim().split(Ar\n\n/\[0\].match(s)
      if (!A) {
        const t = o.extname(e).toLowerCase()
        return { program: c.get(t) || null, additionalArgs: '' }
      }
    })(e, t)
    return (function (e, t, r, A) {
      const n = g(A),
      o = [{ generator: h, extension: '' }]
      n.createCmdFile && o.push({ generator: u, extension: '.cmd' })
      n.createPwshFile &&
  })(e, t, r, A)
}
o.push({ generator: p, extension: '.ps1' })
return Promise.all(
o.map((A) =>
(async function (e, t, r, A, n) {
const o = n.preserveSymlinks
? '--preserve-symlinks'
: '',
i = [r.additionalArgs, o].filter((e) => e).join(' ')
return (
(n = Object.assign({}, n, {
prog: r.program,
args: i,
})),
await (function (e, t) {
return (function (e, t) {
return t.fs_.unlink(e).catch(() => {})
})(e, t)
})(t, n),
await n.fs_.writeFile(t, A(e, t, n), 'utf8'),
(function (e, t) {
return (function (e, t) {
return t.fs_.chmod(e, 493)
})(e, t)
})(t, n)
)
})(e, t + A.extension, r, A.generator, n),
),
)
})(e, t, A, r)
)
})(e, t, A)
}
function u(e, t, r) {
let A = o.relative(o.dirname(t), e).split('/').join('\\')
const n = o.isAbsolute(A) ? `"${A}"` : `"%~dp0\\${A}"`
let i,
s = r.prog,
a = r.args || ''
const c = d(r.nodePath).win32
s
? ((i = `"%~dp0\\${s}.exe"`), (A = n))
: ((s = n), (a = ''), (A = ''))
let g = r.progArgs ? r.progArgs.join(' ') + ' ' : '',
l = c ? `@SET NODE_PATH=${c}\r\n` : ''
return (
(l += i
? `@IF EXIST ${i} (\r\n ${i} ${a} ${A} ${g}%*\r\n) ELSE (\r\n @SETLOCAL\r\n @SET
PATHEXT=%PATHEXT:;.JS;=;%\r\n ${s} ${a} ${A} ${g}%*\r\n)`

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function h(e, t, r) {
    let A,
    n = o.relative(o.dirname(t), e),
    i = r.prog && r.prog.split('/').join('/'),
    const s = o.isAbsolute(n) ? "$n" : "$basedir/$n",
    let a = r.args || '',
    const c = d(r.nodePath).posix
    i ? ((A = "$basedir/$r.prog"), (n = s)) : ((i = s), (a = ''), (n = '')),
    let g = r.progArgs ? r.progArgs.join(' ') + '' : '',
    l += '#!/bin/sh
    basedir=$(dirname "$0" | sed -e \s,\\,/,\\,g')
\n\n  ```
  case `uname` in
    *CYGWIN*) basedir=`cygpath -w "$basedir"`;::;unescape
\n\n  const u = r.nodePath ? `export NODE_PATH="$c"` : "
  return (l += A
      ? u + `if [ -x ${A} ]; then
        exec ${A} ${a} ${n} ${g} "$@"
      else
        exec ${i} ${a} ${n} ${g} "$@"
      fi
      exit $?
    `, l
  )
}

function p(e, t, r) {
    let A = o.relative(o.dirname(t), e)
    const n = r.prog && r.prog.split('/').join('/'),
    let i,
    s = n && "${n}$exe"
    A = A.split('/').join('/')
    const a = o.isAbsolute(A) ? "$A" : "$basedir/$A"
    let c = r.args || '',
    g = d(r.nodePath)
    const l = g.win32,
    u = g.posix
    i ? ((i = "$basedir/$r.prog$exe"), (A = a)) : ((s = a), (c = ''), (A = '')),
    let h = r.progArgs ? r.progArgs.join(' ') + '' : '',
    p = '#!/usr/bin/env pwsh
$basedir=Split-Path $MyInvocation.MyCommand.Definition -Parent
$exe=""
(r.nodePath
  ? `$env_node_path=$env:_NODE_PATH\n$env:NODE_PATH="$[1]"\n``
  : `)
  +
  `if ($PSVersionTable.PSVersion -lt "6.0" -or $IsWindows) {\n  # Fix case when both the Windows and
  # Linux builds of Node\n  # are installed in the same directory\n  $exe=".exe"\n  `)
  return (
    r.nodePath && (p = p + ' else {\n      $env:NODE_PATH="u"\n    },
    (p += '
    (p = i
      ? p +
        'ret=0\n      : `)
        `if (Test-Path ${i}) \n  # Support pipeline input\n  if ($MyInvocation.ExpectingInput) \n    `)
        `$input | & ${i} ${c} ${A} ${h}$args
  } else {
    & ${i} ${c} ${A} ${h}$args
    $ret=$LASTEXITCODE\n  } else \n    `)
        'exit $ret\n     `)
      : p +
      `# Support pipeline input\nif ($MyInvocation.ExpectingInput) \n    `)
      `$input | & ${s} ${c} ${A} ${h}$args
  } else {
    & ${s} ${c} ${A} ${h}$args
    $ret=$LASTEXITCODE\n  } else \n    `)
      (r.nodePath ? '$env:NODE_PATH=$env_node_path' : `)
    'exit $ret\n  `)
    p)
)
function d(e) {
  if (!e) return { win32: '', posix: '' }
  let t = 'string' == typeof e ? e.split(o.delimiter) : Array.from(e),
    r = {}
  for (let e = 0; e < t.length; e++) {
    const A = t[e].split('/').join('\'),
      n = i()
    ? t[e]
      .split('\')
      .join('/')
      .replace(  '([^\:\/]*):/
      (e, t) => '/mnt/' + t.toLowerCase(),
    )
    : t[e]
    :(r.win32 = r.win32 ? `\$\{r.win32\}:A`,
      r posix = r posix ? `\$\{r posix\}:n`,
      (r[e] = { win32: A, posix: n })
  )
  return r
set(r) {
  e.alias(t, r)
},
get() {
  let r = (e) => n(e, r.stack)
  return {
    Reflect.setPrototypeOf(r, e),
    (r.stack = this.stack ? this.stack.concat(t) : [t]),
    r
  },
}
o('bgBlackBright', [100, 49], 'bgBright'),
o('bgRedBright', [101, 49], 'bgBright'),
o('bgGreenBright', [102, 49], 'bgBright'),
o('bgYellowBright', [103, 49], 'bgBright'),
o('bgBlueBright', [104, 49], 'bgBright'),
o('bgMagentaBright', [105, 49], 'bgBright'),
o('bgCyanBright', [106, 49], 'bgBright'),
o('bgWhiteBright', [107, 49], 'bgBright'),
(e.ansiRegex = A),
(e.hasColor = e.hasAnsi = (t) => (e.ansiRegex.lastIndex = 0),
'string' == typeof t && '' !== t && e.ansiRegex.test(t))},
(e.alias = (t, r) => {
let A = 'string' == typeof r ? e[r] : r
if ('function' !== typeof A)
throw new TypeError('Expected alias to be the name of an existing color (string) or a function',
A.stack ||
(Reflect.defineProperty(A, 'name', { value: t })),
(e.styles[t] = A),
(A.stack = [t])),
Reflect.defineProperty(e, t, {configurable: !0,
enumerable: !0,
set(r) {
  e.alias(t, r)
},
get() {
  let t = (e) => n(e, t.stack)
  return (Reflect.setPrototypeOf(t, e),
  (t.stack = this.stack
  ? this.stack.concat(A.stack)
  : A.stack),
  t
  )
} }, }),
(e.theme = (t) => {
if (null === (r = t) ||
'object' !== typeof r ||
Array.isArray(r)
)
throw new TypeError('Expected theme to be an object')
var r
for (let r of Object.keys(t)) e.alias(r, t[r])
return e
},
e.alias('unstyle', (t) =>
'string' == typeof t && '' !== t
? ((e.ansiRegex.lastIndex = 0), t.replace(e.ansiRegex, ""))
: '',
),
e.alias('noop', (e) => e),
(e.none = e.clear = e.noop),
(e.stripColor = e.unstyle),
(e.symbols = r(31283)),
(e.define = o),
e
}
:e.exports = n(), (e.exports.create = n)
;
31283: (e) => {
'use strict'
const t = 'Hyper' === process.env.TERM_PROGRAM,
r = 'win32' === process.platform,
A = 'linux' === process.platform,
n = {
ballotDisabled: '',
balletOff: '',
balletOn: '',
bullet: '',
bulletWhite: '',
fullBlock: '',
heart: '',
identicalTo: '',
line: '',
mark: '',
middot: '',
minus: '',
multiplication: '',
obelus: '',
pencilDownRight: '',
pencilRight: '',
pencilUpRight: '',
percent: '%',
pilcrow2: '',
pilcrow: '',
plusMinus: '',
section: '',
starsOff: '',
'use strict'
e = r.nmd(e)
const A = (e, t) => (...r) => `\[${e(...r) + t}m`
const n = (e, t) => (...r) => { const A = e(...r) return `\[${38 + t};5;${A}m`
}
const o = (e, t) => (...r) => { const A = e(...r) return `\[${38 + t};2;${A[0]};${A[1]};${A[2]}m`
}
i = (e) => e,
s = (e, t, r) => [e, t, r],
a = (e, t, r) => { Object.defineProperty(e, t, { get: () => { const A = r() return ( Object.defineProperty(e, t, { value: A, enumerable: !0, configurable: !0, }) ), A }, enumerable: !0, configurable: !0, })
};
let c = (e, t, A, n) => { void 0 === c && (c = r(2744)) const o = n ? 10 : 0, i = {}
for (const [r, n] of Object.entries(c)) { const s = 'ansi16' === r ? 'ansi' : r r === t ? (i[s] = e(A, o)) : 'object' === typeof n && (i[s] = e(n[t], o))
}
return i
}
Object.defineProperty(e, 'exports', { enumerable: !0, get: function () { const e = new Map(), t = {
}}
this._callback = e
var t = function (e) {
    this._callback && (this._callback(e), (this._callback = null))
}.bind(this)
this.on('pipe', function (e) {
    e.on('error', t)
}),
this.on('unpipe', function (e) {
    e.removeListener('error', t)
})
} else this.append(e)
A.call(this)
}

r(31669).inherits(n, A),
(n.prototype._offset = function (e) {
    var t,
        r = 0,
        A = 0
    if (0 === e) return [0, 0]
    for (; A < this._bufs.length; A++) {
        if (e < (t = r + this._bufs[A].length) ||
            A == this._bufs.length - 1)
            return [A, e - r]
        r = t
    }
}),
(n.prototype._reverseOffset = function (e) {
    for (var t = e[0], r = e[1], A = 0; A < t; A++)
        r += this._bufs[A].length
    return r
}),
(n.prototype.append = function (e) {
    var t = 0
    if (Buffer.isBuffer(e)) this._appendBuffer(e)
    else if (Array.isArray(e))
        for (; t < e.length; t++) this.append(e[t])
    else if (e instanceof n)
        for (; t < e._bufs.length; t++) this.append(e._bufs[t])
    else
        null != e &&
        ('number' == typeof e &&& (e = e.toString()),
            this._appendBuffer(Buffer.from(e)))
    return this
}),
(n.prototype._appendBuffer = function (e) {
    this._bufs.push(e, (this.length += e.length))
})
n.prototype._write = function (e, t, r) {
    this._appendBuffer(e, 'function' === typeof r && r()}
)n.prototype._read = function (e) {
    if (!this.length) return this.push(null)
    (e = Math.min(e, this.length)),
    this.push(this.slice(0, e)),
    this.consume(e)
)n.prototype.end = function (e) {
    A.prototype.end.call(this, e),
    this._callback &&
    (this._callback(null, this.slice()), (this._callback = null))
)n.prototype.get = function (e) {
    if (!(e > this.length || e < 0)) {
        var t = this._offset(e)
        return this._buvs[t[0]][t[1]]
    }
)n.prototype.slice = function (e, t) {
    return (e = Math.min(e, this.length)),
    this.copy(null, 0, e, t)
)n.prototype.copy = function (e, t, r, A) {
    if (r >= this.length)
        return e || Buffer.alloc(0)
    if (A <= 0) return e || Buffer.alloc(0)
    var n,
        o,
        i = !!e,
        s = this._offset(r),
        a = A - r,
        c = a,
        g = (i && t) || 0,
        l = s[1]
    if (0 === this._bufs.length)
        return l
    if (l)
        return 1 == this._bufs.length
    if (i)
        return 1 == this._bufs.length

Buffer.concat(this._bufs, this.length)
for (o = 0; o < this._bufs.length; o++)
    this._bufs[o].copy(e, g, (g += this._bufs[o].length)
return e
}
if (c <= this._bufs[s[0]].length - 1)
    return i
    ? this._bufs[s[0]].copy(e, t, l, l + c)
    : this._bufs[s[0]].slice(l, l + c)
for (i || (e = Buffer.allocUnsafe(a)), o = s[0];
o < this._bufs.length;
o++)
    if (!((c > (n = this._bufs[o].length - l))})
        this._bufs[o].copy(e, g, l, l + c)
        break
    this._bufs[o].copy(e, g, l), (g += n), (c -= n), l && (l = 0)
return e

(n.prototype.shallowSlice = function (e, t) {
    if (e = e || 0),
        t = 'number' != typeof t ? this.length : t,
e < 0 & & (e += this.length),
t < 0 & & (t += this.length),
e === t)
return new n()
var r = this._offset(e),
A = this._offset(t),
o = this._bufs.slice(r[0], A[0] + 1)
return (0 === A[1]
? o.pop()
: (o[o.length - 1] = o[o.length - 1].slice(0, A[1]),
0 !== r[1] & & (o[0] = o[0].slice(r[1])),
new n(o)
)

(n.prototype.toString = function (e, t, r) {
return this.slice(t, r).toString(e)
});
(n.prototype.consume = function (e) {
for (; this._bufs.length; ) {
if (!e >= this._bufs[0].length)) {

(this._bufs[0] = this._bufs[0].slice(e)), (this.length -= e)
break
}(e -= this._bufs[0].length),
(this.length -= this._bufs[0].length),
this._bufs.shift()
return this
}),
(n.prototype.duplicate = function () {
for (var e = 0, t = new n(); e < this._bufs.length; e++)
t.append(this._bufs[e])
return t
}),
(n.prototype._destroy = function (e, t) {
:(this._bufs.length = 0), (this.length = 0), t(e)
}),
(n.prototype.indexOf = function (e, t, r) {
if (
(void 0 === r && 'string' == typeof t && ((r = t), (t = void 0)),
'function' == typeof e || Array.isArray(e))
)
throw new TypeError(
'The “value” argument must be one of type string, Buffer, BufferList, or Uint8Array.',
)
if (
'number' == typeof e
 ? (e = Buffer.from([e]))
 : 'string' == typeof e
 ? (e = Buffer.from(e, r))
 : e instanceof n
 ? (e = e.slice())
 : Buffer.isBuffer(e) || (e = Buffer.from(e)),
(t = Number(t || 0)),
isNaN(t) && (t = 0),
t < 0 && (t = this.length + t),
t < 0 && (t = 0),
0 === e.length)
)
return t > this.length ? this.length : t
for (var A = this._offset(t), o = A[0], i = A[1];
o < this._bufs.length;
o++)
{
for (var s = this._bufs[o]; i < s.length; ) {
if (s.length - i >= e.length) {
var a = s.indexOf(e, i)
if (-1 !== a) return this._reverseOffset([o, a])
  i = s.length - e.length + 1
} else {
  var c = this._reverseOffset([o, i])
  if (this._match(c, e)) return c
  i++
} 

i = 0
return -1
}

(n.prototype._match = function (e, t) {
  if (this.length - e < t.length) return !1
  for (var r = 0; r < t.length; r++)
    if (this.get(e + r) !== t[r]) return !1
  return !0
}).

(function () {
  var e = {
    readDoubleBE: 8,
    readDoubleLE: 8,
    readFloatBE: 4,
    readFloatLE: 4,
    readInt32BE: 4,
    readInt32LE: 4,
    readUInt32BE: 4,
    readUInt32LE: 4,
    readInt16BE: 2,
    readInt16LE: 2,
    readUInt16BE: 2,
    readUInt16LE: 2,
    readInt8: 1,
    readUInt8: 1,
    readIntBE: null,
    readIntLE: null,
    readUIntBE: null,
    readUIntLE: null,
  }
  for (var t in e)
    !(function (t) {
      n.prototype[t] =
        null === e[t]
          ? function (e, r) {
              return this.slice(e, e + r)[t](0, r)
            }
          : function (r) {
              return this.slice(r, r + e[t])[t](0)

})

```
'use strict'
const A = r(52169),
n = r(4542)
e.exports = (e, t = {}) => {
  let r = (e, o = {}) => {
    let i = n.isInvalidBrace(o),
        s = !0 === e.invalid && !0 === t.escapeInvalid,
        a = !0 === i || !0 === s,
        c = !0 === t.escapeInvalid ? '\' : '',
        g = ''
    if (!0 === e.isOpen) return c + e.value
    if (!0 === e.isClose) return c + e.value
    if ('open' === e.type) return a ? c + e.value : '('
    if ('close' === e.type) return a ? c + e.value : ')
    if ('comma' === e.type)
      return 'comma' === e.prev.type ? '' : a ? e.value : '|'
    if (e.value) return e.value
    if (e.nodes && e.ranges > 0) {
      let r = n.reduce(e.nodes),
          o = A(...r, { ...t, wrap: !1, toRegex: !0 })
      if (0 !== o.length)
        return r.length > 1 && o.length > 1 ? `(\${o})` : o
    }
    if (e.nodes) for (let t of e.nodes) g += r(t, e)
    return g
  }
  return r(e)
},
5384: (e) => {
'use strict'
e.exports = {
  MAX_LENGTH: 65536,
  CHAR_0: '0',
  CHAR_9: '9',
  CHAR_UPPERCASE_A: 'A',
  CHAR_LOWERCASE_A: 'a',
  CHAR_UPPERCASE_Z: 'Z',
  CHAR_LOWERCASE_Z: 'z',
  CHAR_LEFT_PARENTHESES: '(',
  CHAR_RIGHT_PARENTHESES: ')',
  CHAR_ASTERISK: '*',
  CHAR_AMPERSAND: '&',
  CHAR_AT: '@',
  CHAR_BACKSLASH: '\',
  CHAR_BACKTICK: '`',
  CHAR_CARRIAGE_RETURN: '',
  CHAR_CIRCUMFLEX_ACCENT: '^',
1495: (e, t, r) => {
  'use strict'
  const A = r(52169),
  n = r(54900),
  o = r(4542),
  i = (e = ",", t = ",", r = !1) => {
    let A = []
    if (((e = []).concat(e)), !(t = []).concat(t)).length) return e
    if (!e.length) return r ? o.flatten(t).map((e) => `{${e}}`) : t
    for (let n of e)
      if (Array.isArray(n)) for (let e of n) A.push(i(e, t, r))
      else
        for (let e of t)
          !0 === r && 'string' == typeof e && (e = `{${e}}`),
          A.push(Array.isArray(e) ? i(n, e, r) : n + e)
    return o.flatten(A)
  
}
e.exports = (e, t = {}) => {
  let r = void 0 === t.rangeLimit ? 1e3 : t.rangeLimit,
  s = (e, a = {}) => {
    e.queue = []
    let c = a,
      g = a.queue
    for (; 'brace' !== c.type && 'root' !== c.type && c.parent; )
      (c = c.parent), (g = c.queue)
    if (e.invalid || e.dollar) return void g.push(i(g.pop(), n(e, t)))
    if (
      'brace' === e.type &&
      0 !== e.invalid &&
      2 !== e.nodes.length
    )
      return void g.push(i(g.pop(), ['{}']))
    if (e.nodes && e.ranges > 0) {
      let s = o.reduce(e.nodes)
      if (o.exceedsLimit(...s, t.step, r))
        throw new RangeError(
          'expanded array length exceeds range limit. Use options.rangeLimit to increase or disable the limit.',
        )
      let a = A(...s, t)
      return (0 === a.length && (a = n(e, t)),
        g.push(i(g.pop(), a)),
        void (e.nodes = []))
    }
    let l = o.encloseBrace(e),
      u = e.queue,
      h = e
    for (; 'brace' !== h.type && 'root' !== h.type && h.parent; )
      (h = h.parent), (u = h.queue)
    for (let t = 0; t < e.nodes.length; t++) {
      let r = e.nodes[t]
      'comma' !== r.type || 'brace' !== e.type
        ? 'close' !== r.type
          ? r.value && 'open' !== r.type
            ? u.push(i(u.pop(), r.value))
              : r.nodes && s(r, e)
            : g.push(i(g.pop(), u, l))
          : (1 === t && u.push(''), u.push(''))
        : return u
      return o.flatten(s(e))
    }
  }
};
425: (e, t, r) => {
    'use strict'
    const A = r(54900),
    {
        MAX_LENGTH: n,
        CHAR_BACKSLASH: o,
        CHAR_BACKTICK: i,
        CHAR_COMMA: s,
        CHAR_DOT: a,
        CHAR_LEFT_PARENTHESSES: c,
        CHAR_RIGHT_PARENTHESSES: g,
        CHAR_LEFT_CURLY_BRACE: l,
        CHAR_RIGHT_CURLY_BRACE: u,
        CHAR_LEFT_SQUARE_BRACKET: h,
        CHAR_RIGHT_SQUARE_BRACKET: p,
        CHAR_DOUBLE_QUOTE: d,
        CHAR_SINGLE_QUOTE: C,
        CHAR_NO_BREAK_SPACE: f,
        CHAR_ZERO_WIDTH_NOBREAK_SPACE: I,
    } = r(5384)
e.exports = (e, t = {}) => {
    if ('string' != typeof e) throw new TypeError('Expected a string')
    let r = t || {},
    E = 'number' == typeof r.maxLength ? Math.min(n, r.maxLength) : n,
    if (e.length > E)
        throw new SyntaxError(
            `Input length (${e.length}), exceeds max characters (${E})`
        );
    let B,
    y = { type: 'root', input: e, nodes: [] },
    m = [y],
    w = y,
    Q = y,
    D = 0,
    b = e.length,
    v = 0,
    S = 0
    const k = () => e[v++],
    N = (e) => {
        if (e)
            if ('text' === e.type && 'dot' === Q.type && (Q.type = 'text'),
                'Q' || 'text' !== Q.type || 'text' !== e.type)
                return w.nodes.push(e), (e.parent = w), (e.prev = Q), (Q = e), e
            Q.value += e.value
        }
    for (N({ type: 'bos' }); v < b; )
        if (((w = m[m.length - 1]), (B = k())), B !== l && B !== i))
if (B !== o)
if (B !== p)
if (B !== h)
if (B !== c)
if (B !== g)
if (B !== d && B !== C && B !== i)
if (B !== l)
if (B !== u)
if (B === s && S > 0) {
if (w.ranges > 0) {
  w.ranges = 0
  let e = w.nodes.shift()
  w.nodes = [e, { type: 'text', value: A(w) }]
}
N({ type: 'comma', value: B }), w.commas++
} else if (B === a && S > 0 && 0 === w.commas) {
  let e = w.nodes
  if (0 === S || 0 === e.length) {
    N({ type: 'text', value: B })
    continue
  }
  if ('dot' === Q.type) {
    if ((w.range = []),
        (Q.value += B),
        (Q.type = 'range'),
        3 !== w.nodes.length &&
        5 !== w.nodes.length)
  ) {
    (w.invalid = !0),
    (w.ranges = 0),
    (Q.type = 'text')
    continue
  }
  w.ranges++, (w.args = [])
  continue
}
if ('range' === Q.type) {
  e.pop()
  let t = e[e.length - 1]
  (t.value += Q.value + B), (Q = t), w.ranges--
  continue
}
N({ type: 'dot', value: B })
} else N({ type: 'text', value: B })
else {
  if ('brace' !== w.type) {
    N({ type: 'text', value: B })
  }
}
let e = 'close'
:w = m.pop(),
(w.close = !0),
N({ type: e, value: B }),
S--,
(w = m[m.length - 1])
}
else {
S++
let e =
(Q.value && '$' === Q.value.slice(-1)) ||
!0 === w.dollar
:w = N({
type: 'brace',
open: !0,
close: !1,
dollar: e,
depth: S,
commas: 0,
ranges: 0,
nodes: [],
}),
m.push(w),
N({ type: 'open', value: B })
}
else {
let e,
r = B
for (
!0 !== t.keepQuotes && (B = ''),
v < b && (e = k());
)
if (e !== o) {
if (e === r) {
!0 === t.keepQuotes && (B += e)
break
}
B += e
} else B += e + k()
N({ type: 'text', value: B })
}
else {
if ('paren' !== w.type) {
N({ type: 'text', value: B })
continue
}
function parse(input) {
  let m = [{ type: 'paren', nodes: [] }],
    w, B, D = 0;

  while (m.length > 0) {
    w = m.pop();
    if (w.type === 'text') N({ type: 'text', value: B });
    else {
      B += k();
    }
  }

  return N({ type: 'eos' }), y
}

54900: (e, t, r) => {
  'use strict'
  const A = r(4542)
  e.exports = (e, t = { }) => {
    let r = (e, n = { }) => {
      let o = t.escapeInvalid && A.isInvalidBrace(n),
          i = !0 === e.invalid && !0 === t.escapeInvalid,
          s = ''
      if (e.value)
    }}
}
return (o || i) && A.isOpenOrClose(e) ? '\W + e.value : e.value
if (e.value) return e.value
if (e.nodes) for (let t of e.nodes) s += r(t)
return s
}
return r(e)
},
},
4542: (e, t) => {
'use strict'
):(t.isInteger = (e) =>
'number' == typeof e
? Number.isInteger(e)
: 'string' == typeof e &&
"" !== e.trim() &&
Number.isInteger(Number(e)),
(t.find = (e, t) => e.nodes.find((e) => e.type === t)),
(t.exceedsLimit = (e, r, A = 1, n) =>
!1 !== n &&
!(t.isInteger(e) || !t.isInteger(r)) &&
(Number(r) - Number(e)) / Number(A) >= n),
(t.escapeNode = (e, t = 0, r) =>
let A = e.nodes[t]
A &&
((r && A.type === r) ||
'open' === A.type ||
'close' === A.type) &&
!!0 !== A.escaped &&
((A.value = '\W + A.value), (A.escaped = !0))
),
(t.encloseBrace = (e) =>
'brace' === e.type &&
(e.commas >> (0 + e.ranges)) >> 0 == 0 &&
((e.invalid = !0), !0)),
(t.isInvalidBrace = (e) =>
'brace' === e.type &&
(!!(0 !== e.invalid && !e.dollar) ||
(((e.commas >> (0 + e.ranges)) >> 0 == 0 ||
0 !== e.open ||
0 !== e.close) &&
((e.invalid = !0), !0))),
(t.isOpenOrClose = (e) =>
'open' === e.type ||
'close' === e.type ||
0 === e.open ||
0 === e.close),
(t.reduce = (e) =>
e.reduce(
(e, t) => (
  'text' === t.type && e.push(t.value),
  'range' === t.type && (t.type = 'text'),
  e
),
[],
)),
(t.flatten = (...e) => {
  const t = [],
  r = (e) => {
    for (let A = 0; A < e.length; A++) {
      let n = e[A]
      Array.isArray(n) ? r(n, t) : void 0 !== n && t.push(n)
    }
    return t
  }
  return r(e), t
}),
30093: (e, t, r) => {
  'use strict'
  const {
    V4MAPPED: A,
    ADDRCONFIG: n,
    ALL: o,
    promises: { Resolver: i },
    lookup: s,
  } = r(40881),
  { promisify: a } = r(31669),
  c = r(12087),
  g = Symbol('cacheableLookupCreateConnection'),
  l = Symbol('cacheableLookupInstance'),
  u = Symbol('expires'),
  h = 'number' == typeof o,
  p = (e) => {
    if (!e || 'function' != typeof e.createConnection)
      throw new Error(
        'Expected an Agent instance as the first argument',
      );
  },
  d = () => {
    let e = !_1,
    t = !_1
    for (const r of Object.values(c.networkInterfaces()))
      for (const A of r)
        if (!A.internal &&
          ('IPv6' === A.family ? (t = !_0) : (e = !_0), e && t)
class I {
    constructor({
        cache: e = new Map(),
        maxTtl: t = 1 / 0,
        fallbackDuration: r = 3600,
        errorTtl: A = 0.15,
        resolver: n = new i(),
        lookup: o = s,
    } = {}) {
        if (this.maxTtl = t),
            (this.errorTtl = A),
            (this._cache = e),
            (this._resolver = n),
            (this._dnsLookup = a(o)),
            this._resolver instanceof i
                ? ((this._resolve4 = this._resolver.resolve4.bind(      
                    this._resolver,
                )),
                    (this._resolve6 = this._resolver.resolve6.bind(    
                    this._resolver,
                )))
                : ((this._resolve4 = a(                                          
                    this._resolver.resolve4.bind(this._resolver),
                )),
                    (this._resolve6 = a(                                          
                    this._resolver.resolve6.bind(this._resolver),
                ))),
            (this._iface = d()),
            (this._pending = {}),
            (this._nextRemovalTime = !1),
            (this._hostnamesToFallback = new Set()),
            r < 1)
        )
        this._fallback = !1
    else {
        this._fallback = !0
        const e = setInterval() => {
            this._hostnamesToFallback.clear()
        }, 1e3 * r
        e.unref && e.unref()
    }
}
;(this.lookup = this.lookup.bind(this)),
    (this.lookupAsync = this.lookupAsync.bind(this))
}

set servers(e) {
    this.clear(), this._resolver.setServers(e)
}

get servers() {
    return this._resolver.getServers()
}

lookup(e, t, r) {
    if (
        ('function' == typeof t
        ? ((r = t), (t = { }))
        : 'number' == typeof t && (t = { family: t }),
        !r)
    )
    throw new Error('Callback must be a function.')

    this.lookupAsync(e, t).then(e => {
        t.all
        ? r(null, e)
          : r(null, e.address, e.family, e.expires, e.ttl)
    }, r)
}

async lookupAsync(e, t = {}) {
    'number' == typeof t && (t = { family: t })
    let r = await this.query(e)
    if (6 === t.family) {
        const e = r.filter(e => 6 === e.family)
        t.hints & A && ((h && t.hints & o) || 0 === e.length)
        ? ((e) => {
            for (const t of e)
                6 !== t.family &&
                    ((t.address = '::ffff:' + t.address), (t.family = 6))
        })(r)
        : (r = e)
    } else 4 === t.family && (r = r.filter((e) => 4 === e.family))
    if (t.hints & n) {
        const { _iface: e } = this
        r = r.filter((t) => (6 === t.family ? e.has6 : e.has4))
    }
    if (0 === r.length) {
        const t = new Error('cacheableLookup ENOTFOUND ' + e)
        throw (t.code = 'ENOTFOUND', (t.hostname = e), t)
    }
    return t.all ? r : r[0]
}

async query(e) {
    let t = await this._cache.get(e)

if (!t) {
    const r = this._pending[e]
    if (r) t = await r
    else {
        const r = this.queryAndCache(e)
        ;(this._pending[e] = r), (t = await r)
    }
}
return (t = t.map((e) => ({ ...e }))), t
}
async _resolve(e) {
    const [t, r] = await Promise.all([this._resolve4(e, C), this._resolve6(e, C)].map((e) =>
    (async (e) => {
        try {
            return await e
        } catch (e) {
            if (`ENODATA` === e.code || `ENOTFOUND` === e.code)
                return []
            throw e
        }
    })(e)),
    )
    let A = 0,
    n = 0,
    o = 0
    const i = Date.now()
    for (const e of t)
        (e.family = 4),
        (e.expires = i + 1e3 * e.ttl),
        (A = Math.max(A, e.ttl))
    for (const e of r)
        (e.family = 6),
        (e.expires = i + 1e3 * e.ttl),
        (n = Math.max(n, e.ttl))
    return {
        entries: [...t, ...r],
        cacheTtl: o
    }
}
async _lookup(e) {
    try {
        return {
            entries: await this._dnsLookup(e, { all: !0 } ),
            cacheTtl: 0,
        }
    } catch (e) {
return { entries: [], cacheTtl: 0 }
}

async _set(e, t, r) {
  if (this.maxTtl > 0 && r > 0) {
    let r = 1e3 * Math.min(r, this.maxTtl), (t[u] = Date.now() + r)
    try {
      await this._cache.set(e, t, r)
    } catch (e) {
      this.lookupAsync = async () => {
        const t = new Error('Cache Error. Please recreate the CacheableLookup instance.
        throw ((t.cause = e), t)
      }
    }
  }
  :(A = this._cache), Symbol.iterator in A && this._tick(r)
}
var A
async queryAndCache(e) {
  if (this._hostnamesToFallback.has(e)) return this._dnsLookup(e, f)
  try {
    let t = await this._resolve(e)
    0 === t.entries.length &&
    this._fallback &
    ((t = await this._lookup(e)),
    0 !== t.entries.length && this._hostnamesToFallback.add(e))
    const r = 0 === t.entries.length ? this.errorTtl : t.cacheTtl
    return (await this._set(e, t.entries, r),
    delete this._pending[e],
    t.entries)
  } catch (t) {
    throw (delete this._pending[e], t)
  }
}
_tick(e) {
  const t = this._nextRemovalTime
  :(t || e < t) &&
  (clearTimeout(this._removalTimeout),
  (this._nextRemovalTime = e),
  (this._removalTimeout = setTimeout(() => {
    this._nextRemovalTime = !1
    let e = 1 / 0
    const t = Date.now()
    for (const [r, A] of this._cache)
  })}
const n = A[u]
t >= n ? this._cache.delete(r) : n < e && (e = n)
} 
e !== 1 / 0 && this._tick(e - t)
}. e)),
this._removalTimeout.unref && this._removalTimeout.unref()
}
install(e) {
if ((p(e, g in e))
throw new Error('CacheableLookup has been already installed') : (e[g] = e.createConnection),
(e[I] = this),
(e.createConnection = (t, r) => {
'lookup' in t || (t.lookup = this.lookup), e[g](t, r)
})
}
uninstall(e) {
if ((p(e, e[g])) {
if (e[I] !== this)
throw new Error(
'The agent is not owned by this CacheableLookup instance',
)
:(e.createConnection = e[g]), delete e[g], delete e[I]
}
}
updateInterfaceInfo() {
const { _iface: e } = this
:(this._iface = d()),
((e.has4 && !this._iface.has4) ||
(e.has6 && !this._iface.has6)) &&
this._cache.clear()
}
clear(e) {
e ? this._cache.delete(e) : this._cache.clear()
}
:e.exports = I, (e.exports.default = I)
}
11200: (e, t, r) => {
'use strict'
const A = r(28614),
n = r(78835),
o = r(19793),
i = r(58764),
s = r(86834),
a = r(48491),
c = r(55737),
g = r(15751),
class u {
    constructor(e, t) {
        if ('function' !== typeof e)
            throw new TypeError('Parameter `request` must be a function')
        return (this.cache = new l({
            uri: 'string' == typeof t && t,
            store: 'string' != typeof t && t,
            namespace: 'cacheable-request',
        })),
        this.createCacheableRequest(e)
    }
    createCacheableRequest(e) {
        return (t, r) => {
            let l
            if ('string' == typeof t) (l = p(n.parse(t))), (t = { })
            else if (t instanceof n.URL)
                (l = p(n.parse(t.toString()))), (t = { })
            else {
                const [e, ...r] = (t.path || '').split('?'),
                    A = r.length > 0 ? '?' + r.join('?') : ''
                l = p({ ...t, pathname: e, search: A })
            }
            (t = {
                headers: {},
                method: 'GET',
                cache: !0,
                strictTtl: !1,
                automaticFailover: !1,
                ...t,
                ...h(l),
            }).headers = c(t.headers)
            const d = new A(),
                C = o(n.format(l), { 
                    stripWWW: !1,
                    removeTrailingSlash: !1,
                    stripAuthentication: !1,
                }),
                f = `${t.method}:${C}`
            let I = !1,
            E = !1
            const B = (t) => {
                E = !0
                let A,
                    n = !1
                const o = new Promise((e) => {
                    I = !1,
                    E = !1
                })
            }
            return (t, r) => {
                let I = !1,
                E = !1
                const B = (t) => {
                    E = !0
                    let A,
                        n = !1
                    const o = new Promise((e) => {
                        I = !1,
                        E = !1
                    })
                }
            }
        }
    }
}
A = () => {
    n || ((n = !0), e())
}

c = (e) => {
    if (I && !t.forceRefresh) {
        e.status = e.statusCode
        const r = s
            .fromObject(I.cachePolicy)
            .revalidatedPolicy(t, e)
        if (!r.modified) {
            const t = r.policy.responseHeaders()
            (e = new a(I.statusCode, t, I.body, I.url, )).cachePolicy = r.policy),
            (e.fromCache = !0)
        }
    }
    let A
    e.fromCache ||
        ((e.cachePolicy = new s(t, e, t)), (e.fromCache = !1)),
    t.cache && e.cachePolicy.storable()
        ? ((A = g(e)),
            (async () => {
                try {
                    const r = i.buffer(e)
                    if (await Promise.race([o, new Promise((t) => e.once('end', t)), ]).n)
                        return
                    const A = await r,
                        s = {
                            cachePolicy: e.cachePolicy.toObject(),
                            url: e.url,
                            statusCode: e.fromCache
                                ? I.statusCode
                                : e.statusCode,
                            body: A,
                        }
                    let a = t.strictTtl
                        ? e.cachePolicy.timeToLive()
void 0

(t.maxTtl &&
  (a = a ? Math.min(a, t.maxTtl) : t.maxTtl),
  await this.cache.set(f, s, a)
) catch (e) {
  d.emit('error', new u.CacheError(e))
}
})()

: t.cache &&
I &&
( async () => {
  try {
    await this.cache.delete(f)
  } catch (e) {
    d.emit('error', new u.CacheError(e))
  }
})(),

I &&
( async () => {
  try {
    await this.cache.delete(f)
  } catch (e) {
    d.emit('error', new u.CacheError(e))
  }
})()

d.emit('response', A || e),
'function' == typeof r && r(A || e)
}

try {
  const r = e(t, c)
  r.once('error', A), r.once('abort', A), d.emit('request', r)
} catch (e) {
  d.emit('error', new u.RequestError(e))
}
}

return (async () => {
  const e = async (e) => {
    await Promise.resolve()
    const t = e.cache ? await this.cache.get(f) : void 0
    if (void 0 === t) return B(e)
    const A = s.fromObject(t.cachePolicy)
    if (
      A.satisfiesWithoutRevalidation(e) &&
      !e.forceRefresh
    ) {
      const e = A.responseHeaders(),
        n = new a(t.statusCode, e, t.body, t.url)
      ;(n.cachePolicy = A),
        (n.fromCache = '0'),
        d.emit('response', n),
        'function' == typeof r && r(n)
    } else
      (I = t), (e.headers = A.revalidationHeaders(e)), B(e)
  },
  A = (e) => d.emit('error', new u.CacheError(e))
}
try {
    await e(t)
} catch (e) {
    t.automaticFailover && !E && B(t),
    d.emit('error', new u.CacheError(e))
}
})(),
d)
}
}
}
function h(e) {
    const t = { ...e }
    return (
        (t.path = `${e.pathname || '/'}${e.search || ''}`),
        delete t.pathname,
        delete t.search,
        t
    )
}
function p(e) {
    return {
        protocol: e.protocol,
        auth: e.auth,
        hostname: e.hostname || e.host || 'localhost',
        port: e.port,
        pathname: e.pathname,
        search: e.search,
    }
}
:(u.RequestError = class extends Error {
    constructor(e) {
        super(e.message),
        (this.name = 'RequestError'),
        Object.assign(this, e)
    }
}),
(u.CacheError = class extends Error {
    constructor(e) {
        super(e.message),
        (this.name = 'CacheError'),
        Object.assign(this, e)
    }
})
\begin{verbatim}\verbatiminput{54738.js}\end{verbatim}
```javascript
var r = e => {
  r.pascalCase ? r.charAt(0).toUpperCase() + r.slice(1) : r
}
var r

;(e.exports = t), (e.exports.default = t)
}
95882: (e, t, r) => {
  'use strict'
  const A = r(18483),
  ...

  class g {
    constructor(e) {
      return l(e)
    }
  }
  const l = (e) => {
    const t = {}
    ...

    const r = n ? n.level : 0
    e.level = void 0 === t.level ? r : t.level
    })(t, e),
    (t.template = (...e) => E(t.template, ...e)),
  Object.setPrototypeOf(t, u.prototype),
  Object.setPrototypeOf(t.template, t),
  (t.template.constructor = () => {
    throw new Error(
      'chalk.constructor() is deprecated. Use `new chalk.Instance()` instead.',
    ),
  }),
  (t.template.Instance = g),
  t.template
}
function u(e) {
  return l(e)
}
```
for (const [e, t] of Object.entries(A))
  c[e] = {
    get() {
      const r = C(this, d(t.open, t.close, this._styler), this._isEmpty)
      return Object.defineProperty(this, e, { value: r }), r
    },
  }
  c.visible = {
    get() {
      const e = C(this, this._styler, 0)
      return Object.defineProperty(this, 'visible', { value: e }), e
    },
  }
const h = [
  'rgb',
  'hex',
  'keyword',
  'hsl',
  'hsv',
  'hwb',
  'ansi',
  'ansi256',
]
for (const e of h)
  c[e] = {
    get() {
      const { level: t } = this
      return function (...r) {
        const n = d(A.color[a[t]][e](...r), A.color.close, this._styler)
        return C(this, n, this._isEmpty)
      }
    },
  }
for (const e of h) {
  c['bg' + e[0].toUpperCase() + e.slice(1)] = {
    get() {
      const { level: t } = this
      return function (...r) {
        const n = d(A.bgColor[a[t]][e](...r), A.bgColor.close, this._styler, this._isEmpty)
        return C(this, n, this._isEmpty)
      }
    },
  }
}
const p = Object.defineProperties(() => { }, { 
  ...c, 
  level: { 
    enumerable: !0, 
    get() { 
      return this._generator.level 
    }, 
    set(e) { 
      this._generator.level = e 
    }, 
  }, 
}, 
}

const d = (e, t, r) => {
  let A, n
  return (
    void 0 === r 
      ? ((A = e), (n = t)) 
      : ((A = r.openAll + e), (n = t + r.closeAll)), 
    { open: e, close: t, openAll: A, closeAll: n, parent: r } 
  )
},

C = (e, t, r) => {
  const A = (...e) => f(A, 1 === e.length ? e[0] : e.join(' '))
  return (
    (A.__proto__ = p), 
    (A._generator = e), 
    (A._styler = t), 
    (A._isEmpty = r), 
    A 
  )
},

f = (e, t) => {
  if (e.level <= 0 || !t) return e._isEmpty ? '' : t 
  let r = e._styler 
  if (void 0 === r) return t 
  const { openAll: A, closeAll: n } = r 
  if (-1 !== t.indexOf('')) 
    for (; void 0 !== r; ) (t = i(t, r.close, r.open)), (r = r.parent) 
  const o = t.indexOf('
') 
  return -1 !== o && (t = s(t, n, A, o)), A + t + n 
},

let I

const E = (e, ...t) => {
  const [A] = t
  if (!Array.isArray(A)) return t.join(' ') 
  const n = t.slice(1), 
  o = [A.raw[0]] 
  for (let e = 1; e < A.length; e++)
null.push(
    String(n[e - 1]).replace(/\[{}\\]/g, '\$&'),
    String(A.raw[e]),
)
return void 0 === I && (I = r(80690)), I(e, o.join(''))
}
Object.defineProperties(u.prototype, c)
const B = u()
:B.supportsColor = n,
:B.stderr = u({ level: o ? o.level : 0 }),
:B.stderr.supportsColor = o,
:B.Level = {
  None: 0,
  Basic: 1,
  Ansi256: 2,
  TrueColor: 3,
  0: 'None',
  1: 'Basic',
  2: 'Ansi256',
  3: 'TrueColor',
},
(e.exports = B)
),
80690: (e) => {
  'use strict'
  const t = /(?:\(u(?:[a-f\d][4]|\([a-f\d][1,6]\))\)\([a-f\d][2]\))\(\(?\-\)?w+(?:m(?:[^\^]*))*\)w+(?:m([^\^]*))*\)\(\(?\\u[\w\u]\)\)\(\(?\\u[\w\u]\)\)\(\(?\\u[\w\u]\)\)\(\(?\\u[\w\u]\)\)\)(?:\([\t\f\n]\)|(?=\r?n)))|\)\)|\((?:.|[\t\r\n]+)?\)/gi,
  r = /\(\(?\-\)?w+(?:m(?:[^\^]*))*\)w+(?:m([^\^]*))*\)\(\(?\\u[\w\u]\)\)\(\(?\\u[\w\u]\)\)\(\(?\\u[\w\u]\)\)\(\(?\\u[\w\u]\)\)\)/g,
  A = /^\(\^\^\\r\n\)\(\(?\\u[\w\u]\)\)\(\(?\\u[\w\u]\)\)\)/g,
  n = /\(u(?:[a-f\d][4]|\([a-f\d][1,6]\))\)\([a-f\d][2]\)|\([a-f\d][2]\)\)/g,
  o = new Map([n, 'n'], [r, 'r'], [t, 't'], [b, 'b'], [f, 'f'], [v, 'v'], [0, '0'], [w, 'w'], ['e', 'e'], ['a', 'a'])
  function i(e) {
    const t = 'u' === e[0],
      r = '\' === e[1]
    return (t && !r && 5 === e.length) || (t && e.length)
      ? String.fromCharCode(parseInt(e.slice(1), 16))
      : t && r
  }
```javascript
? String.fromCharCode(parseInt(e.slice(2, -1), 16))
: o.get(e) || e
}

function s(e, t) {
    const r = [],
    o = t.trim().split(/\s*,\s*/g)
    let s
    for (const t of o) {
        const o = Number(t)
        if (Number.isNaN(o)) {
            if (!(s = t.match(A)))
                throw new Error('Invalid Chalk template style argument: $\{t\} (in style $\{e\}')
            )
        r.push(s[2].replace(n, (e, t, r) => (t ? i(t) : r)))
        } else r.push(o)
    return r
}

function a(e) {
r.lastIndex = 0
    const t = []
    let A
    for (; null !== (A = r.exec(e)); ) {
        const e = A[1]
        if (A[2]) {
            const r = s(e, A[2])
            t.push([e].concat(r))
        } else t.push([e])
    return t
}

function c(e, t) {
    const r = {}
    for (const e of t)
        for (const t of e.styles) r[t[0]] = e.inverse ? null : t.slice(1)
    let A = e
    for (const [e, t] of Object.entries(r))
        if (Array.isArray(t)) {
            if (!(e in A)) throw new Error('Unknown Chalk style: ' + e)
            A = t.length > 0 ? A[e](...t) : A[e]
        }
    return A
}
e.exports = (e, r) => {
    const A = [],
    n = []
    let o = []
```

if (r.replace(t, (t, r, s, g, l, u) => {
    if (r) o.push(i(r))
    else if (g) {
        const t = o.join('')
        ;(o = []),
        n.push(0 === A.length ? t : c(e, A)(t)),
        A.push({ inverse: s, styles: a(g) })
    } else if (l) {
        if (0 === A.length)
            throw new Error('Found extraneous } in Chalk template literal',
        )
        n.push(c(e, A)(o.join(''))), (o = []), A.pop()
    } else o.push(u)
},
) ,
n.push(o.join(''), A.length > 0)
} {
    const e = `Chalk template literal is missing \$\{(A.length
    } closing bracket\$\{1 === A.length ? ':' : 's'\} \(\``\)`
    throw new Error(e)
} return n.join('')
}
},
73327: (e) => {
    'use strict'
e.exports = {
    stringReplaceAll: (e, t, r) => {
        let A = e.indexOf(t)
        if (-1 === A) return e
        const n = t.length
        let o = 0,
        i = ''
        do {
            ;(i += e.substr(o, A - o) + t + r),
            (o = A + n),
            (A = e.indexOf(t, o))
        } while (-1 !== A)
        return (i += e.substr(o)), i
    },
    stringEncaseCRLFWithFirstIndex: (e, t, r, A) => {
        let n = 0,
        o = ''
        do {
            const i = `r` === e[A - 1]
(o +=
  e.substr(n, (i ? A - 1 : A) - n) + t + (i ? 'n
' : 'n') + r),
  (n = A + 1),
  (A = e.indexOf('n', n))
} while (-1 !== A)
return (o += e.substr(n)), o
},
},
5864: (e, t, r) => {
  'use strict'
  var A = r(85832),
  n = process.env
  function o(e) {
    return 'string' == typeof e
      ? !!n[e]
      : Object.keys(e).every(function (t) {
          return n[t] === e[t]
        })
  }
  Object.defineProperty(t, '_vendors', {
    value: A.map(function (e) {
      return e.constant
    }),
  }),
  (t.name = null),
  (t.isPR = null),
  A.forEach(function (e) {
    var r = (Array.isArray(e.env) ? e.env : [e.env]).every(function (e, ) {
      return o(e)
    })
    if (((t[e.constant] = r), r))
      switch (((t.name = e.name), typeof e.pr)) {
        case 'string':
          t.isPR = !!n[e.pr]
          break
        case 'object':
          'env' in e.pr
            ? (t.isPR = e.pr.env in n && n[e.pr.env] !== e.pr.ne)
            : 'any' in e.pr
            ? (t.isPR = e.pr.any.some(function (e) {
                return !!n[e]
              }))
          : (t.isPR = o(e.pr))
          break
        default:
t.isPR = null
}
)

(t.isCI = !(n.CI || n.CONTINUOUS_INTEGRATION || n.BUILD_NUMBER || n.RUN_ID)
await t.name)
)
},

85832: (e) => {
'use strict'
e.exports = JSON.parse(
'[
{"name":"AppVeyor","constant":"APPVEYOR","env":"APPVEYOR","pr":"APPVEYOR_PULL_REQUEST_NUMBER"},
{"name":"Azure Pipelines","constant":"AZURE_PIPELINES","env":"SYSTEM_TEAMFOUNDATIONCOLLECTIONURI","pr":"SYSTEM_PULLREQUEST_PULLREQUESTID"},
{"name":"Bamboo","constant":"BAMBOO","env":"bamboo_planKey"},
{"name":"Bitbucket Pipelines","constant":"BITBUCKET","env":"BITBUCKET_COMMIT","pr":"BITBUCKET_PR_ID"},
{"name":"Bambooo CI","constant":"CIRCLE","env":false"},
{"name":"CircleCI","constant":"CIRCLE","env":false"},
{"name":"Cirrus CI","constant":false"},
{"name":"Drone","constant":false"},
{"name":"DSARI","constant":false"},
{"name":"GitLab CI","constant":false"},
{"name":false"},
{"name":false"},
{"name":false"},
{"name":false"},
{"name":false"},
{"name":false"},
{"name":false"},
{"name":false"},
{"name":false"},
{"name":false"},
{"name":false"},
{"name":false"},
{"name":false"}
])

40822: (e, t, r) => {
'use strict'
r.r(t), r.d(t, ( Cli: () => Y, Command: () => M, UsageError: () => a )
class a extends Error {
    constructor(e) {
        super(e),
        (this.clipanion = { type: 'usage' }),
        (this.name = 'UsageError')
    }
}

class c extends Error {
    constructor(e, t) {
        if (1 === this.candidates.length && null !== this.candidates[0].reason)
            this.message = 'Command not found, but we're not sure what's the alternative.'
        else if (1 === this.candidates.length)
            const [{ usage: t }] = this.candidates
            this.message = `${t}

$ ${e}
${l(e)}

${l(e)}

else
    this.message = `Command not found; did you mean:

$ ${t}

${l(e)}

${l(e)}

class g extends Error {
    constructor(e, t) {
        super(),
        (this.input = e),
        (this.usages = t),
        (this.clipanion = { type: 'none' }),
        (this.name = 'UnknownSyntaxError'),
        (this.message = 'Command not found; did you mean:

$ {t}

${l(e)}

${l(e)}

---
While running `e`
  .filter((e) => '0' !== e)
  .map((e) => {
    const t = JSON.stringify(e)
    return e.match(/\s/) || 0 === e.length || t !== `"${e}"` ? t : e
  })
  .join(' ')
}

function u(e) {
  s && console.log(e)
}

const h = {
  candidateUsage: null,
  errorMessage: null,
  ignoreOptions: !1,
  path: [],
  positionals: [],
  options: [],
  remainder: null,
  selectedIndex: -1,
}

function p(e, t) {
  return e.nodes.push(t), e.nodes.length - 1
}

function d(e, t, r = !1) {
  u(`Running a vm on \` + JSON.stringify(t))
}

let A = [
  {
    node: 0,
    state: {
      candidateUsage: null,
      errorMessage: null,
      ignoreOptions: !1,
      options: [],
      path: [],
      positionals: [],
      remainder: null,
      selectedIndex: null,
    },
  },
]

!(function (e, { prefix: t = '' } = {}) {
  u(t + 'Nodes are:' + JSON.stringify(t))
  for (let r = 0; r < e.nodes.length; ++r)
u('`{t}: ${JSON.stringify(e.nodes[t])}`

})(e, { prefix: ' ' })

const n = ['', ...t]

for (let o = 0; o < n.length; ++o) {
  const i = n[o]
  u('  Processing ' + JSON.stringify(i))
  const s = []
  for (const { node: t, state: a } of A) {
    u('    Current node is ' + t)
    const A = e.nodes[t]
    if (2 === t) {
      s.push({ node: t, state: a })
      continue
    }
    console.assert(0 === A.shortcuts.length,
      'Shortcuts should have been eliminated by now'.
    )
    const c = Object.prototype.hasOwnProperty.call(A.statics, i)
    if (!r || o < n.length - 1 || c)
      if (c) {
        const e = A.statics[i]
        for (const { to: t, reducer: r } of e)
          s.push({
            node: t,
            state: void 0 !== r ? b(k, r, a, i) : a,
          }),
          u('      Static transition to ${t} found')
      } else u('      No static transition found')
    else {
      let e = !1
      for (const t of Object.keys(A.statics))
        if (t.startsWith(i)) {
          if (i === t)
            for (const { to: e, reducer: r } of A.statics[t])
              s.push({
                node: e,
                state: void 0 !== r ? b(k, r, a, i) : a,
              }),
              u('      Static transition to ${e} found')
          else
            for (const { to: e, reducer: r } of A.statics[t])
              s.push({
                node: e,
                state: Object.assign(Object.assign({}, a), {
                  remainder: t.slice(i.length),
                }),
              }),
          }
        } else for (const { to: e, reducer: r } of A.statics[t])
          s.push({
            node: e,
            state: Object.assign(Object.assign({}, a), {remainder: t.slice(i.length),
          }),
        })}
u(
  'Static transition to \${e} found (partial match)\',
)
e = !0
}
e || u('No partial static transition found')
}
if ('\0' !== i)
  for (const [e, { to: t, reducer: r }] of A.dynamics)
    b(S, e, a, i) &&
    (s.push({
      node: t,
      state: void 0 !== r ? b(k, r, a, i) : a,
    }),
    u('Dynamic transition to \${t} found (via \${e})'))
}
if (0 === s.length && '\0' === i && 1 === t.length)
  return [{ node: 0, state: h }]
if (0 === s.length)
  throw new c(t, A.filter(({ node: e }) => 2 !== e).map(({ state: e }) => ({
    usage: e.candidateUsage,
    reason: null,
  })),
)
if (s.every(({ node: e }) => 2 === e))
  throw new c(t, s.map(({ state: e }) => ({
    usage: e.candidateUsage,
    reason: e.errorMessage,
  })),
)
A = I(s)
}
if (A.length > 0) {
  u('Results:')
  for (const e of A)
    u('  - \${e.node} -> $\{JSON.stringify(e.state)\}')
} else u('No results')
return A
}

function C(e, t) {
  if (null !== t.selectedIndex) return !0
  if (Object.prototype.hasOwnProperty.call(e.statics, '\0'))
    for (const [to: t] of e.statics['\0']) if (1 === t) return !0
  return !1
function f(e, t) {
  return (function (e, t) {
    const r = t.filter((e) => e.selectedIndex !== null || e.selectedIndex) 
    if (0 === r.length) throw new Error()
    let A = 0
    for (const e of r) e.path.length > A && (A = e.path.length)
    const n = r.filter((e) => e.path.length === A),
        o = (e) => e.positionals.filter((e) => e.extra).length +
            e.options.length,
        i = n.map((e) => (e.state = e, positionalCount = o(e)))
    let s = 0
    for (const { positionalCount: e } of i) e > s && (s = e)
    const a = (function (e) {
      const t = [],
          r = []
      for (const A of e) -1 === A.selectedIndex ? r.push(A) : t.push(A)
      return r.length > 0 ?
        Object.assign(Object.assign({}, h), {
          path: E(...r.map((e) => e.path)),
          options: r.reduce((e, t) => e.concat(t.options), []),
        }),
      )
    })
    return t
  })(i,
      .filter((e) => e.setPositionalCount = e === s)
      .map((e) => e,)
    )
    if (a.length > 1)
      throw new g(a.map((e) => e.candidateUsage),
    )
    return a[0]
  })(t,
      .d(e, [...t, '0']).map((e) => e,)
    )
  })
}

function I(e) {
  let t = 0
  for (const { state: r } of e) r.path.length > t && (t = r.path.length)
  return e.filter((e) => e.path.length === t)
}

function E(e, t, ...r) {

return void 0 === t
  ? Array.from(e)
  : E(
      e.filter((e, r) => e === t[r]),
      ...
    )
  )
}
function B(e) {
  return 1 === e || 2 === e
}
function y(e, t = 0) {
  return {
    to: B(e.to) ? e.to : e.to > 2 ? e.to + t - 2 : e.to + t,
    reducer: e.reducer,
  }
}
function m(e, t = 0) {
  const r = { dynamics: [], shortcuts: [], statics: {} }
  for (const [A, n] of e.dynamics) r.dynamics.push([A, y(n, t)])
  for (const A of e.shortcuts) r.shortcuts.push(y(A, t))
  for (const [A, n] of Object.entries(e.statics))
    r.statics[A] = n.map((e) => y(e, t))
  return r
}
function w(e, t, r, A, n) {
  e.nodes[t].dynamics.push([r, { to: A, reducer: n }])
}
function Q(e, t, r, A) {
  e.nodes[t].shortcuts.push({ to: r, reducer: A })
}
function D(e, t, r, A, n) {
  ;(Object.prototype.hasOwnProperty.call(e.nodes[t].statics, r)
  ? e.nodes[t].statics[r]
  : (e.nodes[t].statics[r] = []))
    .push({ to: A, reducer: n })
}
function b(e, t, r, A) {
  if (Array.isArray(t)) {
    const [n, ...o] = t
    return e[n](r, A, ...o)
  }
  return e[t](r, A)
}
function v(e, t) {
  const r = Array.isArray(e) ? S[e[0]] : S[e]
  if (void 0 === r.suggest) return null
  const A = Array.isArray(e) ? e.slice(1) : []
  return r.suggest(t, ...A)
```javascript
const S = {
    always: () => !0,
    isOptionLike: (e, t) => e.ignoreOptions && t.startsWith('-'),
    isNotOptionLike: (e, t) => e.ignoreOptions || !t.startsWith('-'),
    isOption: (e, t, r, A) => !e.ignoreOptions && t === r,
    isBatchOption: (e, t, r) =>
        e.ignoreOptions &&
        t.test(t) &&
        [...t.slice(1)].every((e) => r.includes(':' + e)),
    isBoundOption: (e, t, r, A) => {
        const o = t.match(i)
        return (e.ignoreOptions &&
            !o &&
            n.test(o[1]) &&
            r.includes(o[1]) &&
            A.filter((e) => e.names.includes(o[1])).every((e) => e.allowBinding,
        )
    ),
    isNegatedOption: (e, t, r) =>
        e.ignoreOptions && t === '--no-' + r.slice(2),
    isHelp: (e, t) => e.ignoreOptions && A.test(t),
    isUnsupportedOption: (e, t, r) => e.ignoreOptions &&
        t.startsWith('-') &&
        n.test(t) &&
        !r.includes(t),
    isInvalidOption: (e, t) =>
        e.ignoreOptions && t.startsWith('-') && !n.test(t),
}
S.isOption.suggest = (e, t, r = !0) => (r ? null : [t])
const k = {
    setCandidateUsage: (e, t, r) =>
        Object.assign(Object.assign({}, e), { candidateUsage: r }),
    setSelectedIndex: (e, t, r) =>
        Object.assign(Object.assign({}, e), { selectedIndex: r }),
    pushBatch: (e, t) =>
        Object.assign(Object.assign({}, e), {
            options: e.options.concat(  
                [...t.slice(1)].map((e) => ({{ name: ':' + e, value: !0 }})),
            ),
        }),
    pushBound: (e, t) => {
        const [, r, A] = t.match(i)
        return Object.assign(Object.assign({}, e), {
```
options: e.options.concat({ name: r, value: A })),
})

pushPath: (e, t) =>
Object.assign(Object.assign({ }, e), { path: e.path.concat(t) })),
pushPositional: (e, t) =>
Object.assign(Object.assign({ }, e), {
  positionals: e.positionals.concat({ value: t, extra: !1 })),
}),
pushExtra: (e, t) =>
Object.assign(Object.assign({ }, e), {
  positionals: e.positionals.concat({ value: t, extra: !0 })),
}),
pushExtraNoLimits: (e, t) =>
Object.assign(Object.assign({ }, e), {
  positionals: e.positionals.concat({ value: t, extra: N })),
}),
pushTrue: (e, t, r = t) =>
Object.assign(Object.assign({ }, e), {
  options: e.options.concat({ name: t, value: !0 })),
}),
pushFalse: (e, t, r = t) =>
Object.assign(Object.assign({ }, e), {
  options: e.options.concat({ name: r, value: !1 })),
}),
pushUndefined: (e, t) =>
Object.assign(Object.assign({ }, e), {
  options: e.options.concat({ name: r, value: void 0 })),
}),
pushStringValue: (e, t) => {
  var r
  const A = Object.assign(Object.assign({ }, e), {
    options: [...e.options],
  }),
  n = e.options[e.options.length - 1]
return (n.value = (null !== (r = n.value) && void 0 !== r
  ? r
  : []
).concat([t]),
  A
})
},

setStringValue: (e, t) => {
  const r = Object.assign(Object.assign({ }, e), {
    options: [...e.options],
  })
return (e.options[e.options.length - 1].value = t), r
hibateOptions: (e) =>
Object.assign(Object.assign({}, e), { ignoreOptions: !0 })

useHelp: (e, t, r) => {
const [, n, o] = t.match(A)
return void 0 !== o
? Object.assign(Object.assign({}, e), {
options: [
{ name: '-c', value: String(r) },
{ name: '-i', value: o },
],
})
: Object.assign(Object.assign({}, e), {
options: [{ name: '-c', value: String(r) }],
})

setError: (e, t, r) =>
'0' === t
? Object.assign(Object.assign({}, e), { errorMessage: r + `' `})
: Object.assign(Object.assign({}, e), {
errorMessage: `$r ($t)`
}),

setOptionArityError: (e, t) => {
const r = e.options[e.options.length - 1]
return Object.assign(Object.assign({}, e), {
errorMessage: `Not enough arguments to option ${r.name}.`,
})
},

N = Symbol()

class F {
constructor(e, t) {
:(this.allOptionNames = []),
(this.arity = {
leading: [],
trailing: [],
extrax: [],
proxy: !1,
}),
(this.options = []),
(this.paths = []),
(this.cliIndex = e),
(this.cliOpts = t)
}
addPath(e) {
this.paths.push(e)
}
setArity({
leading: e = this.arity.leading,
trailing: t = this.arity.trailing,
extra: r = this.arity.extra,
proxy: A = this.arity.proxy,
) {
    Object.assign(this.arity, {
        leading: e,
        trailing: t,
        extra: r,
        proxy: A,
    })
}

addPositional({ name: e = 'arg', required: t = !0 } = {}) {
    if (!t && this.arity.extra === N)
        throw new Error(
            'Optional parameters cannot be declared when using .rest() or .proxy()',
        )
    if (!t && this.arity.trailing.length > 0)
        throw new Error(
            'Optional parameters cannot be declared after the required trailing positional arguments',
        )
    t || this.arity.extra !== N
        ? this.arity.leading.push(e)
        : this.arity.trailing.push(e)
        : this.arity.extra.push(e)
}

addRest({ name: e = 'arg', required: t = 0 } = {}) {
    if (this.arity.extra === N)
        throw new Error(
            'Infinite lists cannot be declared multiple times in the same command',
        )
    if (this.arity.trailing.length > 0)
        throw new Error(
            'Infinite lists cannot be declared after the required trailing positional arguments',
        )
    for (let r = 0; r < t; ++r) this.addPositional({ name: e })
    this.arity.extra = N
}

addProxy({ required: e = 0 } = {}) {
    this.addRest({ required: e }), (this.arity.proxy = !0)
}

addOption({
    names: e,
    description: t,
    arity: r = 0,
    hidden: A = !1,
    allowBinding: n = !0,
```javascript
})
if (!n && r > 1)
  throw new Error('The arity cannot be higher than 1 when the option only supports the --arg=value syntax."
)
if (!Number.isInteger(r))
  throw new Error('The arity must be an integer, got ' + r)
if (r < 0) throw new Error('The arity must be positive, got ' + r)
this.allOptionNames.push(...e),
this.options.push({
  names: e,
  description: t,
  arity: r,
  hidden: A,
  allowBinding: n,
})
}
setContext(e) {
  this.context = e
}
usage({ detailed: e = !0, inlineOptions: t = !0 } = {}) {
  const r = [this.cliOpts.binaryName],
  A = []
  if ((this.paths.length > 0 && r.push(...this.paths[0]), e)) {
      for (const {
        names: e,
        arity: n,
        hidden: o,
        description: i,
      } of this.options) {
          if (o) continue
          const s = []
          for (let e = 0; e < n; ++e) s.push(' #' + e)
          const a = `${e.join(',')}${s.join('')}`
          !t && i
          ? A.push({ definition: a, description: i })
          : r.push(`[${a}]`)
      }
      r.push(...this.arity.leading.map((e) => `<${e}>`)),
      this.arity.extra === N
      ? r.push('...')
      : r.push(...this.arity.extra.map((e) => `\${[e]}`)),
      r.push(...this.arity.trailing.map((e) => `\${<e>}`))
  }
  return { usage: r.join(' '), options: A }
}
compile() {
  if (void 0 === this.context)
```
throw new Error('Assertion failed: No context attached')
const e = {
  nodes: [
    { dynamics: [], shortcuts: [], statics: [] },
    { dynamics: [], shortcuts: [], statics: [] },
    { dynamics: [], shortcuts: [], statics: [] },
  ],
}
let t = 0
(t = p(e, { dynamics: [], shortcuts: [], statics: [] })),
D(e, 0, ",", t, ["setCandidateUsage", this.usage().usage])
const r = this.arity.proxy ? 'always' : 'isNotOptionLike',
A = this.paths.length > 0 ? this.paths : [[]]
for (const n of A) {
  let A = t
  if (n.length > 0) {
    const t = p(e, { dynamics: [], shortcuts: [], statics: [] })
    Q(e, A, t), this.registerOptions(e, t, (A = t))
  }
  for (let t = 0; t < n.length; ++t) {
    const r = p(e, { dynamics: [], shortcuts: [], statics: [] })
    D(e, A, n[t], r, 'pushPath'), (A = r)
  }
  if (this.arity.leading.length > 0 || !this.arity.proxy) {
    const t = p(e, { dynamics: [], shortcuts: [], statics: [] })
    w(e, A, 'isHelp', t, ['useHelp', this.cliIndex]),
    D(e, t, '0', 1, ['setSelectedIndex', -1]),
    this.registerOptions(e, A)
  }
  this.arity.leading.length > 0 &&
  D(e, A, '0', 2, [
    'setError',
    'Not enough positional arguments',
  ])
  let o = A
  for (let t = 0; t < this.arity.leading.length; ++t) {
    const r = p(e, { dynamics: [], shortcuts: [], statics: [] })
    this.arity.proxy || this.registerOptions(e, r),
    (this.arity.trailing.length > 0 ||
    t + 1 !== this.arity.leading.length) &&
    D(e, r, '0', 2, [
      'setError',
      'Not enough positional arguments',
    ]),
    w(e, o, 'isNotOptionLike', r, 'pushPositional'),
    (o = r)
  }
  let i = 0
if (this.arity.extra === N || this.arity.extra.length > 0) {
    const t = pre(e, { dynamics: [], shortcuts: [], statics: {} })
    if ((Q(e, o, t), this.arity.extra === N)) {
        const A = p(e, { dynamics: [], shortcuts: [], statics: {} })
        this.arity.proxy || this.registerOptions(e, A),
        w(e, o, r, A, 'pushExtraNoLimits'),
        w(e, A, r, A, 'pushExtraNoLimits'),
        Q(e, A, t)
    } else
    for (let A = 0; A < this.arity.extra.length; ++A) {
        const A = p(e, { dynamics: [], shortcuts: [], statics: {} })
        this.arity.proxy || this.registerOptions(e, A),
        w(e, i, r, A, 'pushExtra'),
        Q(e, A, t),
        (i = A)
    }
    i = t

    this.arity.trailing.length > 0 &&
    D(e, i, '0', 2, ['setError', 'Not enough positional arguments'],
    )
    let s = i
    for (let t = 0; t < this.arity.trailing.length; ++t) {
        const r = p(e, { dynamics: [], shortcuts: [], statics: {} })
        this.arity.proxy || this.registerOptions(e, r),
        t + 1 < this.arity.trailing.length &&
        D(e, r, '0', 2, ['setError', 'Not enough positional arguments'],
        ),
        w(e, s, 'isNotOptionLike', r, 'pushPositional'),
        (s = r)
    }
    w(e, s, r, 2, ['setError', 'Extraneous positional argument']),
    D(e, s, '0', 1, ['setSelectedIndex', this.cliIndex])
}

return { machine: e, context: this.context }

registerOptions(e, t) {
    w(e, t, ['isOption', '--'], t, 'inhibateOptions'),
    w(e, t, ['isBatchOption', this.allOptionNames], t, 'pushBatch'),
    w(e, t, ['isBoundOption', this.allOptionNames, this.options],
    t,
for (const r of this.options) {
  const A = r.names.reduce(
    (e, t) => (t.length > e.length ? t : e),
    '',
  );
  if (0 === r.arity)
    for (const n of r.names)
      w(e, t, ['isOption', n, r.hidden || n !== A], t, 'pushTrue'),
      n.startsWith('--') &&
        !n.startsWith('--no-') &&
        w(e, t, ['isNegatedOption', n], t, ['pushFalse', n])
  else {
    let n = p(e, { dynamics: [], shortcuts: [], statics: {} });
    for (const o of r.names)
      w(
        e, t, ['isOption', o, r.hidden || o !== A], n, 'pushUndefined',
      )
    for (let t = 0; t < r.arity; ++t) {
      const t = p(e, { dynamics: [], shortcuts: [], statics: {} });
      D(e, n, '' + t, 2, 'setOptionArityError'),
      w(e, n, 'isOptionLike', 2, 'setOptionArityError')
      w(
        e, n, 'isNotOptionLike',
        t, 1 === r.arity ? 'setStringValue' : 'pushStringValue',
      ),
      (n = t)
    }
    Q(e, n, t)
  }
}
```javascript
class K {
  constructor({ binaryName: e = '...' } = {}) {
    (this.builders = []), (this.opts = { binaryName: e })
  }

  static build(e, t = {}) {
    return new K(t).commands(e).compile()
  }

  getBuilderByIndex(e) {
    if (!(e >= 0 && e < this.builders.length))
      throw new Error(`Assertion failed: Out-of-bound command index ($e)`);
    return this.builders[e]
  }

  commands(e) {
    for (const t of e) t(this.command())
    return this
  }

  command() {
    const e = new F(this.builders.length, this.opts)
    return this.builders.push(e), e
  }

  compile() {
    const e = [],
    t = []
    for (const r of this.builders) {
      const { machine: A, context: n } = r.compile()
      e.push(A), t.push(n)
    }
    const r = (function (e) {
      const t = {
        nodes: [{}] // Create a list of objects
      },
      r = []
      let A = t.nodes.length
      for (const n of e) {
        r.push(A)
        for (let e = 0; e < n.nodes.length; ++e)
          B(e) || t.nodes.push(m(n.nodes[e], A))
        A += n.nodes.length - 2
      }
    })
    for (const e of r) Q(t, 0, e)
    return t
  }
}
```
return (function (e) {
    const t = new Set(),
    r = (A) => {
        if (t.has(A)) return
        t.add(A)
        const n = e.nodes[A]
        for (const e of Object.values(n.statics))
            for (const { to: t } of e) r(t)
        for (const [, { to: e }] of n.dynamics) r(e)
        for (const { to: e } of n.shortcuts) r(e)
        const o = new Set(n.shortcuts.map(([ to: e ]) => e))
        for (; n.shortcuts.length > 0; ) {
            const [ to: t ] = n.shortcuts.shift(),
            r = e.nodes[t]
            for (const [e, t] of Object.entries(r.statics)) {
                let r = Object.prototype.hasOwnProperty.call(n.statics, e)
                ? n.statics[e]
                : (n.statics[e] = [])
                for (const e of t)
                    r.some(({ to: t }) => e.to === t) || r.push(e)
            }
            for (const [e, t] of r.dynamics)
                n.dynamics.some(([r, { to: A }]) => e === r && t.to === A,
                n.dynamics.push([e, t])
            for (const e of r.shortcuts)
                o.has(e.to) || (n.shortcuts.push(e), o.add(e.to))
        }
    }
    r(0)
})(t),
{
    machine: r,
    contexts: t,
    process: (e) => f(r, e),
    suggest: (e, t) =>
    (function (e, t, r) {
        const A = r && t.length > 0 ? [''] : [];
        n = d(e, t, r),
        o = [],
        i = new Set(),
        s = (t, r, A = []) => {
            let n = [r]
for (; n.length > 0; ) {
    const r = n
    n = []
    for (const o of r) {
        const r = e.nodes[o],
            i = Object.keys(r.statics)
        for (const e of Object.keys(r.statics)) {
            const e = i[0]
            for (const { to: o, reducer: i } of r.statics[e])
                'pushPath' === i && (A || t.push(e), n.push(o))
        }
        A = !1
    }
    const s = JSON.stringify(t)
    i.has(s) || (o.push(t), i.add(s))
}
for (const { node: t, state: r } of n) {
    if (null !== r.remainder) {
        s([r.remainder], t)
        continue
    }
    const n = e.nodes[t],
        o = C(n, r)
    for (const [e, r] of Object.entries(n.statics))
        ((o && '\0' !== e) ||
            (!e.startsWith('-') &&
                r.some(((reducer: e) => 'pushPath' === e)) &&
                s([...A, e], t)
            )
            if (o)
                for (const [e, { to: o }] of n.dynamics) {
                    if (2 === o) continue
                    const n = v(e, r)
                    if (null !== n) for (const e of n) s([...A, e], t)
                }
            return [...o].sort()
        )
    )
}
}
}

class M {
    constructor() {
        this.help = !1
    }
    static getMeta(e) {
        const t = e.constructor
    }
}
return (t.meta = Object.prototype.hasOwnProperty.call(t, 'meta')
  ? t.meta
  : {
      definitions: [],
      transformers: [
        (e, t) => {
          for (const { name: r, value: A } of e.options)
            (-'h' !== r && --'help' !== r) || (t.help = A)
        },
      ],
    })
}

static resolveMeta(e) {
  const t = [],
    r = []
  for (let A = e; A instanceof M; A = A.__proto__) {
    const e = this.getMeta(A)
    for (const r of e.definitions) t.push(r)
    for (const t of e.transformers) r.push(t)
  }
  return { definitions: t, transformers: r }
}

static registerDefinition(e, t) {
  this.getMeta(e).definitions.push(t)
}

static registerTransformer(e, t) {
  this.getMeta(e).transformers.push(t)
}

static addPath(...e) {
  this.Path(...e)(this.prototype, 'execute')
}

static addOption(e, t) {
  t(this.prototype, e)
}

static Path(...e) {
  return (t, r) => {
    this.registerDefinition(t, (t) => {
      t.addPath(e)
    })
  }
}

static Boolean(e, { hidden: t = !1, description: r } = {}) {
  return (A, n) => {
    const o = e.split(''),
    this.registerDefinition(A, (e) => {
      e.addOption({
        names: o,
        arity: 0,
      })
    })
  }
}
hidden: t,
allowBinding: !1,
description: r,
})
},
this.registerTransformer(A, (e, t) => {
  for (const { name: r, value: A } of e.options)
    o.includes(r) && (t[n] = A)
  })
}
}
static Counter(e, { hidden: t = !1, description: r } = {}) {
return (A, n) => {
  const o = e.split(')
  this.registerDefinition(A, (e) => {
    e.addOption{
      names: o,
      arity: 0,
      hidden: t,
      allowBinding: !1,
      description: r,
    })
  }),
  this.registerTransformer(A, (e, t) => {
    var r
    for (const { name: A, value: i } of e.options)
      o.includes(A) &&
        ((null !== (r = t[n]) && void 0 !== r) || (t[n] = 0),
         i ? t[n]++ : (t[n] = 0))
  })
},
static String(
e = {},
{
  arity: t = 1,
tolerateBoolean: r = !1,
hidden: A = !1,
description: n,
} = {};
}[
return (o, i) => {
  if ('string' == typeof e) {
    const s = e.split(')
    this.registerDefinition(o, (e) => {
      e.addOption{
        names: s,
        arity: r ? 0 : t,
hidden: A,
description: n,
})
),
this.registerTransformer(o, (e, t) => {
    for (const { name: r, value: A } of e.options)
        s.includes(r) && (t[i] = A)
    })
} else {
    const { name: t = i, required: r = !0 } = e
    this.registerDefinition(o, (e) => {
        e.addPositional({ name: t, required: r })
    }),
    this.registerTransformer(o, (e, t) => {
        for (let A = 0; A < e.positionals.length; ++A) {
            if (e.positionals[A].extra == N) continue
            if (r && 0 === e.positionals[A].extra) continue
            if (!r && 1 === e.positionals[A].extra) continue
            const [n] = e.positionals.splice(A, 1)
            t[i] = n.value
            break
        }
    })
}
})
}
}
}
static Array(e,
    { arity: t = 1, hidden: r = !1, description: A } = {},
) {
    return (n, o) => {
        if (0 === t)
            throw new Error(
                'Array options are expected to have at least an arity of 1',
            )
        const i = e.split(','),
        this.registerDefinition(n, (e) => {
            e.addOption({ names: i, arity: t, hidden: r, description: A })
        }),
        this.registerTransformer(n, (e, t) => {
            for (const { name: r, value: A } of e.options)
                i.includes(r) && ((t[o] = t[o] || []).push(A))
        })
    })
}
static Rest({ required: e = 0 } = {}) {
    return (t, r) => {
        this.registerDefinition(t, (t) => {
t.addRest({ name: r, required: e })
}),
this.registerTransformer(t, (e, t, A) => {
const n = (t) => {
const r = e.positionals[t]
return (r.extra === N ||
(!1 === r.extra && t < A.arity.leading.length))
}
let o = 0
for (; o < e.positionals.length && n(o); ) o += 1
if (r) = e.positionals.splice(0, o).map(({ value: e }) => e)
})
}
static Proxy({ required: e = 0 } = {}) {
return (t, r) => {
this.registerDefinition(t, (t) => {
t.addProxy({ required: e })
}),
this.registerTransformer(t, (e, t) => {
t[r] = e.positionals.map(({ value: e }) => e)
})
}
}
static Usage(e) {
return e
}
static Schema(e) {
return e
}
async catch(e) {
throw e
}
async validateAndExecute() {
const e = this.constructor.schema
if (void 0 !== e)
try {
await e.validate(this)
} catch (e) {
throw (e.name &
(e.clipanion = { type: 'usage' }),
e)
}
const t = await this.execute()
return void 0 !== t ? t : 0
}
}
/*! *****************************************************************************/

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PERFORMANCE OF THIS SOFTWARE.

***************************************************************************** */

function R(e, t, r, A) {

var n,
o = arguments.length,
i =
o < 3
? t
 : null === A
 : (A = Object.getOwnPropertyDescriptor(t, r))
 : A

if (  
'object' == typeof Reflect &&
 'function' == typeof Reflect.decorate
)
  i = Reflect.decorate(e, t, r, A)
else
  for (var s = e.length - 1; s >= 0; s--)
    (n = e[s]) &&
    (i = (o < 3 ? n(i) : o > 3 ? n(t, r, i) : n(t, r)) || i)
return o > 3 && i && Object.defineProperty(t, r, i)
}
M.Entries = {}  
class x extends M {
  async execute() {
    this.context.stdout.write(this.cli.usage(null))
  }
}
R([M.Path('--help'), M.Path('-h')], x.prototype, 'execute', null)
class L extends M {
  async execute() {
    var e
    this.context.stdout.write(
r.path = e.path
for (const t of e.options)
    switch (t.name) {
        case '-c':
            r.commands.push(Number(t.value))
            break
        case '-i':
            r.index = Number(t.value)
    }
return r
}
async execute() {
    let e = this.commands
    if (0 !== this.index &&
        this.index >= 0 &&
        this.index < e.length &&
        e = [e[this.index]],
        0 === e.length)
    )
        this.context.stdout.write(this.cli.usage())
    else if (1 === e.length)
        this.context.stdout.write(
            this.cli.usage(this.contexts[e[0]].commandClass, {
                detailed: !0,
            }),
        ),
    )
    else if (e.length > 1) {
        this.context.stdout.write(,
            'Multiple commands match your selection:
',
            this.context.stdout.write('
'),
        let e = 0
        for (const t of this.commands)
            this.context.stdout.write(
                this.cli.usage(this.contexts[t].commandClass, {
                    prefix: (e++ + '.').padStart(5),
                }),
            )
        this.context.stdout.write('Run again with -h=<index> to see the longer details of any of those commands.
',
    )
}
}
function j() {
    return (
'0' !== process.env.FORCE_COLOR &&
('1' === process.env.FORCE_COLOR ||
!(void 0 === process.stdout || !process.stdout.isTTY))
)
}
class Y {
    constructor({
        binaryLabel: e,
        binaryName: t = '...',
        binaryVersion: r,
        enableColors: A = j(),
    } = {} ) {
        (this.registrations = new Map()),
        (this.builder = new K({ binaryName: t })),
        (this.binaryLabel = e),
        (this.binaryName = t),
        (this.binaryVersion = r),
        (this.enableColors = A)
    }
    static from(e, t = {}) {
        const r = new Y(t)
        for (const t of e) r.register(t)
        return r
    }
    register(e) {
        const t = this.builder.command()
        this.registrations.set(e, t.cliIndex)
        const { definitions: r } = e.resolveMeta(e.prototype)
        for (const e of r) e(t)
        t.setContext({ commandClass: e })
    }
    process(e) {
        const { contexts: t, process: r } = this.builder.compile(),
        A = r(e)
        switch (A.selectedIndex) {
            case -1:
                return T.from(A, t)
            default: {
                const { commandClass: e } = t[A.selectedIndex],
                r = this.registrations.get(e)
                if (void 0 === r)
                    throw new Error(
                        'Assertion failed: Expected the command class to have been registered.'
                    )
                const n = this.builder.getBuilderByIndex(r),
                o = new e()
                o.path = A.path
                const { transformers: i } = e.resolveMeta(e.prototype)
async run(e, t) {
    let r, A
    if (Array.isArray(e))
        try {
            r = this.process(e)
        } catch (e) {
            return t.stdout.write(this.error(e)), 1
        }
    else r = e
    if (r.help)
        return t.stdout.write(this.usage(r, { detailed: !0 })), 0
    ;(r.context = t),
    (r.cli = {
        binaryLabel: this.binaryLabel,
        binaryName: this.binaryName,
        binaryVersion: this.binaryVersion,
        enableColors: this.enableColors,
        definitions: () => this.definitions(),
        error: (e, t) => this.error(e, t),
        process: (e) => this.process(e),
        run: (e, r) =>
            this.run(e, Object.assign(Object.assign({ }, t), r)),
        usage: (e, t) => this.usage(e, t),
    })
    try {
        A = await r
        .validateAndExecute()
        .catch((e) => r.catch(e).then(() => 0))
    } catch (e) {
        return t.stdout.write(this.error(e, { command: r })), 1
    }
    return A
}
definitions({ colored: e = !1 } = {}) {
  const t = []
  for (const [r, A] of thisregistrations) {
    if (void 0 === r.usage) continue
    const { usage: n } = this.getUsageByIndex(A, { detailed: !1 }),
    { usage: o, options: i } = this.getUsageByIndex(A, {
      detailed: !0,
      inlineOptions: !1,
    }),
    s =
    void 0 !== r.usage.category
    ? U(r.usage.category, {            
      format: this.format(e),    
      paragraphs: !1,    
    }) : void 0,
    a =
    void 0 !== r.usage.description
    ? U(r.usage.description, {            
      format: this.format(e),    
      paragraphs: !1,    
    }) : void 0,
    c =
    void 0 !== r.usage.details
    ? U(r.usage.details, {            
      format: this.format(e),    
      paragraphs: !0,    
    }) : void 0,
    g =
    void 0 !== r.usage.examples
    ? r.usage.examples.map(([t, r]) => [
      U(t, { format: this.format(e), paragraphs: !1 }),
      r.replace(/$0/g, this.binaryName),
    ]) : void 0
    t.push({
      path: n,
      usage: o,
      category: s,
      description: a,
      details: c,
      examples: g,
      options: i,
    })
  }
}
return t
}

usage(
e = null,
{ colored: t, detailed: r = !1, prefix: A = '$ ' } = {})
)

const n = null !== e && void 0 === e.getMeta ? e.constructor : e
let o = ''
if (n)
if (r) {
const {
description: e = '',
details: r = '',
examples: i = [],
} = n.usage || {}
'' !== e &&
((o += U(e, {
format: this.format(t),
paragraphs: !1,
}).replace(/^\s/, (e) => e.toUpperCase()),
(o += 'n')),
'' !== r || i.length > 0) &&
((o += this.format(t).bold('Usage:') + 'n'), (o += 'n'))
const { usage: s, options: a } = this.getUsageByRegistration(n,
{ inlineOptions: !1 },
)
if (((o += `${this.format(t).bold(A)}${s}
`), a.length > 0)) {
;o += 'n', (o += P.bold('Options:') + 'n')
const e = a.reduce(
(e, t) => Math.max(e, t.definition.length),
0,
)
o += 'n'
for (const { definition: r, description: A } of a)
o += ` $r.padEnd(e) \${U(A, {
format: this.format(t),
paragraphs: !1,
})}
`}
if (" !== r &&
((o += 'n'),
(o += this.format(t).bold('Details:') + 'n'),
(o += 'n'),
(o += U(r, { format: this.format(t), paragraphs: !0 }))),
i.length > 0)
) {
You can also print more details about any of these commands by calling them after adding the `-h,--help` flag right after the command name.
const o = e.clipanion
return (void 0 !== o
  ? 'usage' === o.type && ((A += \n'), (A += this.usage(r)))
    : e.stack && (A += e.stack.replace(/\n/, ') + \n'),
  A)
)
)
getUsageByRegistration(e, t) {
  const r = thisregistrations.get(e)
  if (void 0 === r)
    throw new Error('Assertion failed: Unregistered command')
  return this.getUsageByIndex(r, t)
}
getUsageByIndex(e, t) {
  return this.builder.getBuilderByIndex(e).usage(t)
}
format(e = this.enableColors) {
  return e ? P : O
}
)
);
;
(Y.defaultContext = {
  stdin: process.stdin,
  stdout: process.stdout,
  stderr: process.stderr,
  )
  (M.Entries.Help = x)
  (M.Entries.Version = L)
},
15751: (e, t, r) => {
  'use strict'
  const A = r(92413).PassThrough,
    n = r(65007)
  e.exports = (e) => {
    if (!e || !e.pipe)
      throw new TypeError('Parameter `response` must be a response stream.',
    )
    const t = new A()
    return n(e, t), e.pipe(t)
  }
},
15311: (e, t, r) => {
  const A = r(93300),
    n = {}
  for (const e of Object.keys(A)) n[A[e]] = e
  const o = {
    rgb: { channels: 3, labels: 'rgb' },
  },
hsl: { channels: 3, labels: 'hsl' },
hsv: { channels: 3, labels: 'hsv' },
hwb: { channels: 3, labels: 'hwb' },
cmyk: { channels: 4, labels: 'cmyk' },
xyz: { channels: 3, labels: 'xyz' },
lab: { channels: 3, labels: 'lab' },
lch: { channels: 3, labels: 'lch' },
hex: { channels: 1, labels: ['hex'] },
keyword: { channels: 1, labels: ['keyword'] },
ansi16: { channels: 1, labels: ['ansi16'] },
ansi256: { channels: 1, labels: ['ansi256'] },
hcg: { channels: 3, labels: ['h', 'c', 'g'] },
apple: { channels: 3, labels: ['r16', 'g16', 'b16'] },
gray: { channels: 1, labels: ['gray'] },
}
e.exports = o
for (const e of Object.keys(o)) {
  if (!('channels' in o[e]))
    throw new Error('missing channels property: ' + e)
  if (!('labels' in o[e]))
    throw new Error('missing channel labels property: ' + e)
  if (o[e].labels.length !== o[e].channels)
    throw new Error('channel and label counts mismatch: ' + e)
  const { channels: t, labels: r } = o[e]
  delete o[e].channels,
  delete o[e].labels,
  Object.defineProperty(o[e], 'channels', { value: t }),
  Object.defineProperty(o[e], 'labels', { value: r })
}
:o.rgb.hsl = function (e) {
  const t = e[0] / 255,
  r = e[1] / 255,
  A = e[2] / 255,
  n = Math.min(t, r, A),
  o = Math.max(t, r, A),
  i = o - n
  let s, a
  o === n
    ? (s = 0)
    : t === o
    ? (s = (r - A) / i)
    : r === o
    ? (s = 2 + (A - t) / i)
    : A === o && (s = 4 + (t - r) / i),
  (s = Math.min(60 * s, 360)),
  s < 0 && (s += 360)
  const c = (n + o) / 2
  return (}
(a = o === n ? 0 : c <= 0.5 ? i / (o + n) : i / (2 - o - n)),
[s, 100 * a, 100 * c]
)
)
(o.rgb.hsv = function (e) {
  let t, r, A, n, o
  const i = e[0] / 255,
  s = e[1] / 255,
  a = e[2] / 255,
  c = Math.max(i, s, a),
  g = c - Math.min(i, s, a),
  l = function (e) {
    return (c - e) / 6 / g + 0.5
  }
  return (g == 0
    ? ((n = 0), (o = 0))
    : ((o = g / c),
      (t = l(i)),
      (r = l(s)),
      (A = l(a)),
      i == c
        ? (n = A - r)
        : s == c
        ? (n = 1 / 3 + t - A)
        : a == c && (n = 2 / 3 + r - t),
      n < 0 ? (n += 1) : n > 1 && (n -= 1)),
    [360 * n, 100 * o, 100 * c]
  )
})
(o.rgb.hwb = function (e) {
  const t = e[0],
  r = e[1]
  let A = e[2]
  const n = o.rgb.hsl(e)[0],
  i = (1 / 255) * Math.min(t, Math.min(r, A))
  return (A = 1 - (1 / 255) * Math.max(t, Math.max(r, A))),
  [n, 100 * i, 100 * A]
})
(o.rgb.cmyk = function (e) {
  const t = e[0] / 255,
  r = e[1] / 255,
  A = e[2] / 255,
  n = Math.min(1 - t, 1 - r, 1 - A)
  return [
    100 * ((1 - t - n) / (1 - n) || 0),
    ]
});
100 * ((1 - r - n) / (1 - n) || 0),
100 * ((1 - A - n) / (1 - n) || 0),
100 * n,
]
}),
(o.rgb.keyword = function (e) {
    const t = n[e]
    if (t) return t
    let r,
        o = 1 / 0
    for (const t of Object.keys(A)) {
        const n = A[t],
            a =
                ((s = n),
                    ((i = e)[0] - s[0]) ** 2 +
                    (i[1] - s[1]) ** 2 +
                    (i[2] - s[2]) ** 2)
            a < o && ((o = a), (r = t))
    }
    return r
}),
(o.keyword.rgb = function (e) {
    return A[e]
}),
(o.rgb.xyz = function (e) {
    let t = e[0] / 255,
        r = e[1] / 255,
        A = e[2] / 255
    ;(t = t > 0.04045 ? ((t + 0.055) / 1.055) ** 2.4 : t / 12.92),
    (r = r > 0.04045 ? ((r + 0.055) / 1.055) ** 2.4 : r / 12.92),
    (A = A > 0.04045 ? ((A + 0.055) / 1.055) ** 2.4 : A / 12.92)
    return [
        100 * (0.4124 * t + 0.3576 * r + 0.1805 * A),
        100 * (0.2126 * t + 0.7152 * r + 0.0722 * A),
        100 * (0.0193 * t + 0.1192 * r + 0.9505 * A),
    ]
}),
(o.rgb.lab = function (e) {
    const t = o.rgb.xyz(e)
    let r = t[0],
        A = t[1],
        n = t[2]
    ;(r /= 95.047),
    (A /= 100),
    (n /= 108.883),
    (r = r > 0.008856 ? r ** (1 / 3) : 7.787 * r + 16 / 116),
    (A = A > 0.008856 ? A ** (1 / 3) : 7.787 * A + 16 / 116),
(n = n > 0.008856 ? n ** (1 / 3) : 7.787 * n + 16 / 116)
return [116 * A - 16, 500 * (r - A), 200 * (A - n)]
)
),(o.hsl.rgb = function (e) {
    const t = e[0] / 360,
    r = e[1] / 100,
    A = e[2] / 100
    let n, o, i
    if (0 === r) return (i = 255 * A), [i, i, i]
n = A < 0.5 ? A * (1 + r) : A + r - A * r
    const s = 2 * A - n,
    a = [0, 0, 0]
    for (let e = 0; e < 3; e++)
        (o = t + (1 / 3) * -(e - 1)),
        o < 0 && o++,
        o > 1 && o--,
        (i =
        6 * o < 1
        ? s + 6 * (n - s) * o
        : 2 * o < 1
        ? n
        : 3 * o < 2
        ? s + (n - s) * (2 / 3 - o) * 6
        : s),
        (a[e] = 255 * i)
    return a
}),
(o.hsl.hsv = function (e) {
    const t = e[0]
    let r = e[1] / 100,
    A = e[2] / 100,
    n = r
    const o = Math.max(A, 0.01)
    ;(A *= 2), (r *= A <= 1 ? A : 2 - A), (n *= o <= 1 ? o : 2 - o)
    return [
        t,
        100 * (0 === A ? (2 * n) / (o + n) : (2 * r) / (A + r)),
        100 * ((A + r) / 2),
    ]
}),
(o.hsv.rgb = function (e) {
    const t = e[0] / 60,
    r = e[1] / 100
    let A = e[2] / 100
    const n = Math.floor(t) % 6,
    o = t - Math.floor(t),
    i = 255 * A * (1 - r),
    s = 255 * A * (1 - r * o),
a = 255 * A * (1 - r * (1 - o))

switch (((A *= 255), n)) {
    case 0:
        return [A, a, i]
    case 1:
        return [s, A, i]
    case 2:
        return [i, A, a]
    case 3:
        return [i, s, A]
    case 4:
        return [a, i, A]
    case 5:
        return [A, i, s]
}

(o.hsv.hsl = function (e) {
    const t = e[0],
    r = e[1] / 100,
    A = e[2] / 100,
    n = Math.max(A, 0.01)
    let o, i
    i = (2 - r) * A
    const s = (2 - r) * n
    return [
        (o = r * n),
        (o /= s <= 1 ? s : 2 - s),
        (o = o || 0),
        (i /= 2),
        [t, 100 * o, 100 * i]
    ]
}),

(o.hwb.rgb = function (e) {
    const t = e[0] / 360
    let r = e[1] / 100,
    A = e[2] / 100
    const n = r + A
    let o
    n > 1 && ((r /= n), (A /= n))
    const i = Math.floor(6 * t),
    s = 1 - A
    ;(o = 6 * t - i), 0 != (1 & i) && (o = 1 - o)
    const a = r + o * (s - r)
    let c, g, l
    switch (i) {
        default:
        case 6:
        case 0:
case 1:
    ;(c = a), (g = s), (l = r)
    break

case 2:
    ;(c = r), (g = s), (l = a)
    break

case 3:
    ;(c = r), (g = a), (l = s)
    break

case 4:
    ;(c = a), (g = r), (l = s)
    break

case 5:
    ;(c = s), (g = r), (l = a)
}
return [255 * c, 255 * g, 255 * l]
}),
(o.cmyk.rgb = function (e) {
    const t = e[0] / 100,
        r = e[1] / 100,
        A = e[2] / 100,
        n = e[3] / 100
    return [
        255 * (1 - Math.min(1, t * (1 - n) + n)),
        255 * (1 - Math.min(1, r * (1 - n) + n)),
        255 * (1 - Math.min(1, A * (1 - n) + n)),
    ]
}),
(o.xyz.rgb = function (e) {
    const t = e[0] / 100,
        r = e[1] / 100,
        A = e[2] / 100
    let n, o, i
    return (n = 3.2406 * t + -1.5372 * r + -0.4986 * A),
        (o = -0.9689 * t + 1.8758 * r + 0.0415 * A),
        (i = 0.0557 * t + -0.204 * r + 1.057 * A),
    (n = n > 0.0031308 ? 1.055 * n ** (1 / 2.4) - 0.055 : 12.92 * n),
    (o = o > 0.0031308 ? 1.055 * o ** (1 / 2.4) - 0.055 : 12.92 * o),
    (i = i > 0.0031308 ? 1.055 * i ** (1 / 2.4) - 0.055 : 12.92 * i),
    (n = Math.min(Math.max(0, n), 1)),
    (o = Math.min(Math.max(0, o), 1)),
    (i = Math.min(Math.max(0, i), 1)),
    [255 * n, 255 * o, 255 * i]
})
});
(o.xyz.lab = function (e) {
    let t = e[0],
        r = e[1],
        A = e[2];
    (t /= 95.047),
    (r /= 100),
    (A /= 108.883),
    (t = t > 0.008856 ? t ** (1 / 3) : 7.787 * t + 16 / 116),
    (r = r > 0.008856 ? r ** (1 / 3) : 7.787 * r + 16 / 116),
    (A = A > 0.008856 ? A ** (1 / 3) : 7.787 * A + 16 / 116)
    return [116 * r - 16, 500 * (t - r), 200 * (r - A)]
}).

(o.lab.xyz = function (e) {
    let t, r, A;
    (r = (e[0] + 16) / 116), (t = e[1] / 500 + r), (A = r - e[2] / 200)
    const n = r ** 3,
    o = t ** 3,
    i = A ** 3
    return (
        (r = n > 0.008856 ? n : (r - 16 / 116) / 7.787),
        (t = o > 0.008856 ? o : (t - 16 / 116) / 7.787),
        (A = i > 0.008856 ? i : (A - 16 / 116) / 7.787),
        (t *= 95.047),
        (r *= 100),
        (A *= 108.883),
        [t, r, A]
    )
}).

(o.lab.lch = function (e) {
    const t = e[0],
    r = e[1],
    A = e[2];
    let n;
    (n = (360 * Math.atan2(A, r)) / 2 / Math.PI), n < 0 && (n += 360)
    return [t, Math.sqrt(r * r + A * A), n]
}).

(o.lch.lab = function (e) {
    const t = e[0],
    r = e[1],
    return [t, r * Math.cos(A), r * Math.sin(A)]
}).

(o.rgb.ansi16 = function (e, t = null) {
    const [r, A, n] = e
    let i = null === t ? o.rgb.hsv(e)[2] : t
    if (((i = Math.round(i / 50)), 0 === i)) return 30
    let s = 30 +
((Math.round(n / 255) << 2) |
(Math.round(A / 255) << 1) |
Math.round(r / 255))
return 2 === i && (s += 60), s
},
(o hsv.ansi16 = function (e) {
return o rgb.ansi16(o hsv.rgb(e), e[2])
}),
(o rgb.ansi256 = function (e) {
const t = e[0],
r = e[1],
A = e[2]
if (t === r && r === A)
return t < 8
? 16
: t > 248
? 231
: Math.round(((t - 8) / 247) * 24) + 232
return (16 +
36 * Math.round((t / 255) * 5) +
6 * Math.round((r / 255) * 5) +
Math.round((A / 255) * 5)
)
}),
(o ansi16.rgb = function (e) {
let t = e % 10
if (0 === t || 7 === t)
return e > 50 && (t += 3.5), (t = (t / 10.5) * 255), [t, t, t]
const r = 0.5 * (1 + ~(e > 50))
return [
(1 & t) * r * 255,
((t >> 1) & 1) * r * 255,
((t >> 2) & 1) * r * 255,
]
}),
(o ansi256.rgb = function (e) {
if (e >= 232) {
const t = 10 * (e - 232) + 8
return [t, t, t]
}
let t
const t = Math.floor(e / 36) / 5 * 255,
(Math.floor(t = e % 36) / 6 / 5) * 255,
((t % 6) / 5) * 255,
]
```javascript
(o.rgb.hex = function (e) {
    const t = (
        ((255 & Math.round(e[0])) << 16) +
        ((255 & Math.round(e[1])) << 8) +
        (255 & Math.round(e[2]))
    ).toString(16)
    .toUpperCase()
    return '000000'.substring(t.length) + t
});

(o.hex.rgb = function (e) {
    const t = e.toString(16).match(/\[a-f0-9\]{6}|\[a-f0-9\]{3}/i)
    if (!t) return [0, 0, 0]
    let r = t[0]
    3 === t[0].length &&
    (r = r
        .split('')
        .map((e) => e + e)
        .join(''))
    const A = parseInt(r, 16)
    return [(A >> 16) & 255, (A >> 8) & 255, 255 & A]
});

(o.rgb.hcg = function (e) {
    const t = e[0] / 255,
        r = e[1] / 255,
        A = e[2] / 255,
        n = Math.max(Math.max(t, r), A),
        o = Math.min(Math.min(t, r), A),
        i = n - o
    let s, a
    return (s = i < 1 ? o / (1 - i) : 0),
    (a =
        i <= 0
            ? 0
            : (r - A) / i % 6
            ? (r - A) / i
            : 2 + (A - t) / i
            : 4 + (t - r) / i),
    (a /= 6),
    (a %= 1),
    [360 * a, 100 * i, 100 * s]
});

(o.hsl.hcg = function (e) {
    const t = e[1] / 100,
```
r = e[2] / 100,
A = r < 0.5 ? 2 * t * r : 2 * t * (1 - r)
let n = 0
return (A < 1 && (n = (r - 0.5 * A) / (1 - A)), [e[0], 100 * A, 100 * n])
},
(o.hsv.hcg = function (e) {
const t = e[1] / 100,
r = e[2] / 100,
A = t * r
let n = 0
return A < 1 && (n = (r - A) / (1 - A)), [e[0], 100 * A, 100 * n])
},
(o.hcg.rgb = function (e) {
const t = e[0] / 360,
r = e[1] / 100,
A = e[2] / 100
if (0 === r) return [255 * A, 255 * A, 255 * A]
const n = [0, 0, 0],
o = (t % 1) * 6,
i = o % 1,
s = 1 - i
let a = 0
switch (Math.floor(o)) {
case 0:
; (n[0] = 1), (n[1] = i), (n[2] = 0)
break
case 1:
; (n[0] = s), (n[1] = 1), (n[2] = 0)
break
case 2:
; (n[0] = 0), (n[1] = 1), (n[2] = i)
break
case 3:
; (n[0] = 0), (n[1] = s), (n[2] = 1)
break
case 4:
; (n[0] = i), (n[1] = 0), (n[2] = 1)
break
default:
; (n[0] = 1), (n[1] = 0), (n[2] = s)
}
return (a = (1 - r) * A),
[255 * (r * n[0] + a), 255 * (r * n[1] + a), 255 * (r * n[2] + a)]
})
});
const t = e[1] / 100,
    r = t + (e[2] / 100) * (1 - t)
let A = 0
    return r > 0 && (A = t / r), [e[0], 100 * A, 100 * r]
),
(o.hcg.hsl = function (e) {
    const t = e[1] / 100,
    r = (e[2] / 100) * (1 - t) + 0.5 * t
let A = 0
    return (
        r > 0 && r < 0.5
            ? (A = t / (2 * r))
            : r >= 0.5 && r < 1 && (A = t / (2 * (1 - r))),
        [e[0], 100 * A, 100 * r]
    )
},
(o.hcg.hwb = function (e) {
    const t = e[1] / 100,
    r = t + (e[2] / 100) * (1 - t)
return [e[0], 100 * (r - t), 100 * (1 - r)]
}),
(o.hwb.hcg = function (e) {
    const t = e[1] / 100,
    r = 1 - e[2] / 100,
    A = r - t
let n = 0
    return A < 1 && (n = (r - A) / (1 - A)), [e[0], 100 * A, 100 * n]
}),
(o.apple.rgb = function (e) {
    return [e[0] / 65535) * 255,
    e[1] / 65535) * 255,
    e[2] / 65535) * 255,
]}
),
(o.rgb.apple = function (e) {
    return [e[0] / 255) * 65535,
    e[1] / 255) * 65535,
    e[2] / 255) * 65535,
]}
),
(o.gray.rgb = function (e) {
    return [e[0] / 100) * 255, (e[0] / 100) * 255, (e[0] / 100) * 255]
}),
(o.gray.hsl = function (e) {
    return [0, 0, e[0]]}
(o.gray.hsv = o.gray.hsl),
(o.gray.hwb = function (e) {
  return [0, 100, e[0]]
}),
(o.gray.cmyk = function (e) {
  return [0, 0, 0, e[0]]
}),
(o.gray.lab = function (e) {
  return [e[0], 0, 0]
}),
(o.gray.hex = function (e) {
  const t = 255 & Math.round((e[0] / 100) * 255),
  r = ((t << 16) + (t << 8) + t).toString(16).toUpperCase()
  return '000000'.substring(r.length) + r
}),
(o.rgb.gray = function (e) {
  return [((e[0] + e[1] + e[2]) / 3 / 255) * 100]
})
},
2744: (e, t, r) => {
  const A = r(15311),
  n = r(78577),
  o = {}
  Object.keys(A).forEach((e) => {
    (o[e] = {}),
    Object.defineProperty(o[e], 'channels', { value: A[e].channels } ),
    Object.defineProperty(o[e], 'labels', { value: A[e].labels } )
  const t = n(e)
  Object.keys(t).forEach((r) => {
    const A = t[r]
    (o[e][r] = (function (e) {
      const t = function (...t) {
        const r = t[0]
        if (null == r) return r
        r.length > 1 && (t = r)
        const A = e(t)
        if ('object' == typeof A)
          for (let e = A.length, t = 0; t < e; t++)
        return A
      }
    return 'conversion' in e && (t.conversion = e.conversion), t)(A)),
    (o[e][r].raw = (function (e) {
      const t = function (...t) {
        const r = t[0]
        return null == r ? r : (r.length > 1 && (t = r), e(t))
    })((A))),
})
return 'conversion' in e &

});(A))
)}

)

(e.exports = o)

78577: (e, t, r) => {
const A = r(15311)

function n(e) {
    const t = (function () {
        const e = {},
        t = Object.keys(A)
        for (let r = t.length, A = 0; A < r; A++)
            e[t[A]] = { distance: -1, parent: null }
        return e
    })(),
    r = [e]
    for (t[e].distance = 0; r.length; ) {
        const e = r.pop(),
        n = Object.keys(A[e])
        for (let A = n.length, o = 0; o < A; o++) {
            const A = n[o],
            i = t[A]
            -1 === i.distance &&
                ((i.distance = t[e].distance + 1), (i.parent = e), r.unshift(A))
        }
    }
    return t
}

function o(e, t) {
    return function (r) {
        return t(e(r))
    }
}

function i(e, t) {
    const r = [t[e].parent, e]
    let n = A[t[e].parent][e],
    i = t[e].parent
    for (; t[i].parent; )
        r.unshift(t[i].parent),
        (n = o(A[t[i].parent][i], n)),
        (i = t[i].parent)
    return (n.conversion = r), n
}

e.exports = function (e) {
    const t = n(e),
    r = [],
A = Object.keys(t)
for (let e = A.length, n = 0; n < e; n++) {
  const e = A[n]
  null !== t[e].parent && (r[e] = i(e, t))
}
return r

'use strict'
e.exports = {
  aliceblue: [240, 248, 255],
  antiquewhite: [250, 235, 215],
  aqua: [0, 255, 255],
  aquamarine: [127, 255, 212],
  azure: [240, 255, 255],
  beige: [245, 245, 220],
  bisque: [255, 228, 196],
  black: [0, 0, 0],
  blanchedalmond: [255, 235, 205],
  blue: [0, 0, 255],
  blueviolet: [138, 43, 226],
  brown: [165, 42, 42],
  burlywood: [222, 184, 135],
  cadetblue: [95, 158, 160],
  chartreuse: [127, 255, 0],
  chocolate: [210, 105, 30],
  coral: [255, 127, 80],
  cornflowerblue: [100, 149, 237],
  cornsilk: [255, 248, 220],
  crimson: [220, 20, 60],
  cyan: [0, 255, 255],
  darkblue: [0, 0, 139],
  darkcyan: [0, 139, 139],
  darkgoldenrod: [184, 134, 11],
  darkgray: [169, 169, 169],
  darkgrey: [169, 169, 169],
  darkkhaki: [189, 183, 107],
  darkmagenta: [139, 0, 139],
  darkolivegreen: [85, 107, 47],
  darkorange: [255, 140, 0],
  darkorchid: [153, 50, 204],
  darkred: [139, 0, 0],
  darksalmon: [233, 150, 122],
  darkseagreen: [143, 188, 143],
  darkslateblue: [72, 61, 139],
  darkslategray: [47, 79, 79],
slategrey: [112, 128, 144],
snow: [255, 250, 250],
springgreen: [0, 255, 127],
steelblue: [70, 130, 180],
tan: [210, 180, 140],
teal: [0, 128, 128],
thistle: [216, 191, 216],
tomato: [255, 99, 71],
turquoise: [64, 224, 208],
violet: [238, 130, 238],
wheat: [245, 222, 179],
white: [255, 255, 255],
whitesmoke: [245, 245, 245],
yellow: [255, 255, 0],
yellowgreen: [154, 205, 50],
}
},
67566: (e, t, r) => {
  'use strict'
  const A = r(63129),
  n = r(14951),
  o = r(10779)
  function i(e, t, r) {
    const i = n(e, t, r),
    s = A.spawn(i.command, i.args, i.options)
    return o.hookChildProcess(s, i), s
  }
  (e.exports = i),
  (e.exports.spawn = i),
  (e.exports.sync = function (e, t, r) {
    const i = n(e, t, r),
    s = A.spawnSync(i.command, i.args, i.options)
    return (s.error = s.error || o.verifyENOENTSIn(s.status, i)), s
  }),
  (e.exports._parse = n),
  (e.exports._enoent = o)
},
10779: (e) => {
  'use strict'
  const t = 'win32' === process.platform
  function r(e, t) {
    return Object.assign(new Error(`${t} ${e.command} ENOENT`), {
      code: 'ENOENT',
      errno: 'ENOENT',
      syscall: `${t} ${e.command}`,
      path: e.command,
      spawnargs: e.args,
    })
  }
function A(e, A) {
    return t && 1 === e && !A.file ? r(A.original, 'spawn') : null
}

e.exports = {
    hookChildProcess: function (e, r) {
        if (!t) return
        const n = e.emit
        e.emit = function (t, o) {
            if ('exit' === t) {
                const t = A(o, r)
                if (t) return n.call(e, 'error', t)
            }
            return n.apply(e, arguments)
        },
    },
    verifyENOENT: A,
    verifyENOENTSync: function (e, A) {
        return t && 1 === e && !A.file ? r(A.original, 'spawnSync') : null
    },
    notFoundError: r
},

14951: (e, t, r) => {
    'use strict'
    const A = r(85622),
    n = r(47447),
    o = r(27066),
    i = r(35187),
    s = 'win32' === process.platform,
    a = /\.(?:com|exe)$/,
    c = /node_modules\[\]/.bin\[\]/[^\/]+.cmd$/
    function g(e) {
        if (!s) return e
        const t = (function (e) {
            e.file = n(e)
            const t = e.file && i(e.file)
            return t
        })(e),
        r = !a.test(t)
        if (e.options.forceShell || r) {
            const r = c.test(t)
            if (e.options.forceShell || r) {
                const r = c.test(t)
                ;(e.command = A.normalize(e.command)),
                (e.command = o.command(e.command)),
                (e.args = e.args.map(e => o.argument(e, r)))
                const n = [e.command].concat(e.args).join(' ')
            }
        }
    }
}
47447: (e, t, r) => {
  'use strict'
  const A = r(85622),
  n = r(87945),
  o = r(37127)
  function i(e, t) {
    const r = e.options.env || process.env,
      i = process.cwd(),
      s = null != e.options.cwd,
      a = s && void 0 != process.chdir && !process.chdir.disabled
    if (a)
      try {
        process.chdir(e.options.cwd)
      } catch (e) {}
    let c
    try {
      c = n.sync(e.command, {
        path: r[o({ env: r })],
        pathExt: t ? A.delimiter : void 0,
      })
    } catch (e) {
    } finally {
      a && process.chdir(i)
    }
    return c && (c = A.resolve(s ? e.options.cwd : '', c)), c
  }
  e.exports = function (e) {
    return i(e) || i(e, !0)
  }
},
93868: (e, t, r) => {
  'use strict'
  const { Transform: A, PassThrough: n } = r(92413),
  o = r(78761),
  i = r(33527)
  e.exports = (e) => {
    const t = (e.headers['content-encoding'] || '').toLowerCase()
    if (!['gzip', 'deflate', 'br'].includes(t)) return e
    const r = 'br' === t
    if (r && 'function' != typeof o.createBrotliDecompress)
      return (e.destroy(new Error('Brotli is not supported on Node.js < 12')), e)
    let s = !0
    const a = new A({
      transform(e, t, r) {

; (s = !1), r(null, e)
},
flush(e) {
  e()
},
}),
c = new n(
  autoDestroy: !1,
  destroy(t, r) {
    e.destroy(), r(t)
  },
}),
g = r ? o.createBrotliDecompress() : o.createUnzip()
return (g.once('error', (t) => {
  !s || e.readable ? c.destroy(t) : c.end()
}),
i(e, c),
e.pipe(a).pipe(g).pipe(c),
c
})
},
93121: (e, t, r) => {
  'use strict'
  Object.defineProperty(t, '__esModule', { value: !0 })
  const A = r(4016),
  n = (e, t) => {
    let r
    if ('function' == typeof t) {
      r = { connect: t }
    } else r = t
    const n = 'function' == typeof r.connect,
    o = 'function' == typeof r.secureConnect,
    i = 'function' == typeof r.close,
    s = () => {
      n &&& r.connect(),
    e instanceof A.TLSSocket &&
    o &&
    (e.authorized
      ? r.secureConnect()
    e.authorizationError ||
    e.once('secureConnect', r.secureConnect)),
    i &&& e.once('close', r.close)
    }
    e.writable && !e.connecting
    ? s()
    : e.connecting
? e.once('connect', s)
  : e.destroyed && i && r.close(e._hadError)
}
):t.default = n), (e.exports = n), (e.exports.default = n)
},
66241: (e, t, r) => {
'use strict'
const A = r(85622),
  n = r(5763),
o = (e) => (e.length > 1 ? `{${e.join(',')}}` : e[0]),
i = (e, t) => {
  const r = '!' === e[0] ? e.slice(1) : e
  return A.isAbsolute(r) ? r : A.join(t, r)
},
s = (e, t) => {
  if (t.files && !Array.isArray(t.files))
    throw new TypeError(
      'Expected files\n to be of type \nArray\n but received type \n$\{typeof t.files\}\n',
    )
  if (t.extensions && !Array.isArray(t.extensions))
    throw new TypeError(
      'Expected extensions\n to be of type \nArray\n but received type \n$\{typeof t.extensions\}\n',
    )
  return t.files && t.extensions
? t.files.map((e) => {
    return A.posix.join(  
e,  
((n = r),  
i = t.extensions),  
A.extname(n) ? `**/\n  + n : `**/$\{o(i)\}`,  
)  
var n, i
})  
: t.files
? t.files.map((t) => A.posix.join(e, '***' + t))  
: t.extensions
? [A.posix.join(e, '**/.*') + o(t.extensions))]  
: [A.posix.join(e, '**')]  
}
):(e.exports = async (e, t) => {
  if ('string' != typeof (t = { cwd: process.cwd(), ...t }).cwd)
    throw new TypeError(
      'Expected cwd\n to be of type \nstring\n but received type \n$\{typeof t.cwd\}\n',
    )
  const r = await Promise.all([
    .concat(e)  
    .map(async (e) =>

return e.setHeader && 'function' == typeof e.abort
})(e)
? c && 'i' && (e.on('end', g), e.on('close', g))
: (e.on('complete', l),
  e.on('abort', p),
  e.req ? d() : e.on('request', d)),
(function (e) {
  return e.stdio && Array.isArray(e.stdio) && 3 === e.stdio.length
})(e) && e.on('exit', h),
e.on('end', u),
e.on('finish', l),
!1 !== t.error && e.on('error', r),
e.on('close', p),
function () {
  e.removeListener('complete', l),
  e.removeListener('abort', p),
  e.removeListener('request', d),
  e.req && e.req.removeListener('finish', l),
  e.removeListener('end', g),
  e.removeListener('close', g),
  e.removeListener('finish', l),
  e.removeListener('exit', h),
  e.removeListener('end', u),
  e.removeListener('error', r),
  e.removeListener('close', p)
})
);

17067: (e, t, r) => {
  var A = r(27180),
  n = function () {},
  o = function (e, t, r) {
    if ('function' == typeof t) return o(e, null, t)
  t || (t = {}), (r = A(r || n))
  var i = e._writableState,
      s = e._readableState,
      a = t.readable || (!1 !== t.readable && e.readable),
      c = t.writable || (!1 !== t.writable && e.writable),
      g = function () {
        e.writable || l()
      },
      l = function () {
        (c = !1), a || r.call(e)
      },
      u = function () {
        (a = !1), c || r.call(e)
      },
\begin{verbatim}
function h(t) {
    r.call(e, t ? new Error('exited with error code: ' + t) : null)
}

function p(t) {
    r.call(e, t)
}

d = function () {
    return (!a || (s && s.ended)) && (!c || (i && i.ended)) ? void 0 : r.call(e, new Error('premature close'))
}

C = function () {
    e.req.on('finish', l)
}

return (!function (e) {
    return e.setHeader && 'function' == typeof e.abort
})(e) ? c && !i && (e.on('end', g), e.on('close', g)) : (e.on('complete', l),
    e.on('abort', d),
    e.req ? C() : e.on('request', C),
    !function (e) {
        e.stdio && Array.isArray(e.stdio) && 3 === e.stdio.length
    })(e) && e.on('exit', h),
    e.on('end', u),
    e.on('finish', l),
    !1 !== t.error && e.on('error', p),
    e.on('close', d),
    function () {
        e.removeListener('complete', l),
        e.removeListener('abort', d),
        e.removeListener('request', C),
        e.req && e.req.removeListener('finish', l),
        e.removeListener('end', g),
        e.removeListener('close', g),
        e.removeListener('finish', l),
        e.removeListener('exit', h),
        e.removeListener('end', u),
        e.removeListener('error', p),
        e.removeListener('close', d)
    })
}
}
e.exports = o
\end{verbatim}
'use strict'
const A = r(42357),
n = r(28614),
o = r(10278)
class i extends n {
  constructor(e, t) {
    super(), (this.options = o.merge({}, e)), (this.answers = { ...t })
  }
  register(e, t) {
    if (o.isObject(e)) {
      for (let t of Object.keys(e)) this.register(t, e[t])
      return this
    }
    A.equal(typeof t, 'function', 'expected a function')
    let r = e.toLowerCase()
    return (
      t.prototype instanceof this.Prompt
      ? (this.prompts[r] = t)
      : (this.prompts[r] = t(this.Prompt, this)),
      this
    )
  }
  async prompt(e = []) {
    for (let t of []).concat(e)
    try {
      'function' == typeof t && (t = await t.call(this)),
      await this.ask(o.merge({}, this.options, t))
    } catch (e) {
      return Promise.reject(e)
    }
    return this.answers
  }
  async ask(e) {
    'function' == typeof e && (e = await e.call(this))
    let t = o.merge([], this.options, e),
    { type: r, name: n } = e,
    { set: i, get: s } = o
    if ()
      ('
        function' == typeof r &&
        (r = await r.call(this, e, this.answers)),
        !r)
    )
    return this.answers[n]
    A(this.prompts[r], 'Prompt "$r" is not registered')
  }
}
n &
  a.on('submit', (e) => {
    this.emit('answer', n, e, a), i(this.answers, n, e)
  })
let g = a.emit.bind(a)
return (
(a.emit = (...e) => (this.emit.call(this, ...e), g(...e))),
  this.emit('prompt', a, this),
  t.autofill & null != c
  ? ((a.value = a.input = c),
    'show' === t.autofill && (await a.submit()))
  : (c = a.value = await a.run()),
c
)e) use(e) { return e.call(this, this), this } set Prompt(e) { this._Prompt = e } get Prompt() { return this._Prompt || this.constructor.Prompt } get prompts() { return this.constructor.prompts } static set Prompt(e) { this._Prompt = e } static get Prompt() { return this._Prompt || r(58386) } static get prompts() { return r(53609) } static get types() { return r(13235) } static get prompt() { const e = (t, ...r) => {
  let A = new this(...r),
  n = A.emit.bind(A)
  return (A.emit = (...t) => (e.emit(...t), n(...t))), A.prompt(t)
} return o.mixinEmitter(e, new n()), e }
o.mixinEmitter(i, new n())
const s = i.prompts
for (let e of Object.keys(s)) {
    let t = e.toLowerCase(),
        r = (t) => new s[e](t).run()
    (i.prompt[t] = r),
    (if[t] = r),
    i[e] || Reflect.defineProperty(i, e, { get: () => s[e] })
}
const a = (e) => {
    o.defineExport(i, e, () => i.types[e])
} a('ArrayPrompt'), a('AuthPrompt'), a('BooleanPrompt'), a('NumberPrompt'), a('StringPrompt'), (e.exports = i)
}
72380: (e, t, r) => {
    'use strict'
    const A = 'Apple_Terminal' === process.env.TERM_PROGRAM,
        n = r(97991),
        o = r(10278),
        i = (e.exports = t),
        s = '\['
    let a = !1
    const c = (i.code = {
        bell: '\n',
        beep: '\n',
        beginning: '\G',
        down: '\J',
        esc: s,
        getPosition: '\6n',
        hide: '\?25l',
        line: '\2K',
        lineEnd: '\K',
        lineStart: '\1K',
        restorePosition: s + (A ? '8' : 'u'),
        savePosition: s + (A ? '7' : 's'),
        screen: '\2J',
        show: '\?25h',
        up: '\1J',
    }),
    g = (i.cursor = {
        get hidden() {
            return a
        },
    ).
hide: () => ((a = !0), c.hide),
show: () => ((a = !1), c.show),
forward: (e = 1) => `\[$(e)C`,
backward: (e = 1) => `\[$(e)D`,
nextLine: (e = 1) => `\[$E`.repeat(e),
prevLine: (e = 1) => `\[$F`.repeat(e),
up: (e = 1) => (e ? `\[$(e)A` : ``),
down: (e = 1) => (e ? `\[$(e)B` : ``),
right: (e = 1) => (e ? `\[$(e)C` : ``),
left: (e = 1) => (e ? `\[$(e)D` : ``),
to: (e, t) => (t ? `\[$(t + 1);$(e + 1)H : `\[$(e + 1)G`),
move(e = 0, t = 0) {
  let r =`
  return (r += e < 0 ? g.left(-e) : e > 0 ? g.right(e) : `), (r += t < 0 ? g.up(-t) : t > 0 ? g.down(t) : `), r)
},
restore(e = {}) {
  let {
    after: t,
    cursor: r,
    initial: A,
    input: n,
    prompt: s,
    size: a,
    value: c,
  } = e
  if ((A = o.isPrimitive(A) ? String(A) : `), (n = o.isPrimitive(n) ? String(n) : `), (c = o.isPrimitive(c) ? String(c) : `),
    a)
  ) {
    let e = i.cursor.up(a) + i.cursor.to(s.length),
    t = n.length - r
    return t > 0 && (e += i.cursor.left(t)), e
  }
  if (c || t) {
    let e = !n && A ? -A.length : -n.length + r
    return (t && (e -= t.length),
      "" === n && A && !s.includes(A) && (e += A.length),
      i.cursor.move(e)
    )
  }
},
}
l = (i.erase = {
    screen: c.screen,
    up: c.up,
    down: c.down,
    line: c.line,
    lineEnd: c.lineEnd,
    lineStart: c.lineStart,
    lines(e) {
        let t = "
        for (let r = 0; r < e; r++)
            t += i.erase.line + (r < e - 1 ? i.cursor.up(1) : '')
        return e && (t += i.code.beginning), t
    },
})

i.clear = (e = '', t = process.stdout.columns) => {
    if (!t) return l.line + g.to(0)
    let r = e.split(/?
/),
        A = 0
    for (let e of r)
        A +=
            1 +
            Math.floor(1 +
                Math.max(0), [...n.unstyle(o)].length - 1) / t,
    var o
    return (l.line + g.prevLine()).repeat(A - 1) + l.line + g.to(0)
},
62475: (e, t) => {
    'use strict'
;((t.ctrl = {
    a: 'first',
    b: 'backward',
    c: 'cancel',
    d: 'deleteForward',
    e: 'last',
    f: 'forward',
    g: 'reset',
    i: 'tab',
    k: 'cutForward',
    l: 'reset',
    n: 'newItem',
    m: 'cancel',
    j: 'submit',
    p: 'search',
    r: 'remove',
    s: 'save',
    })}
u: 'undo',
w: 'cutLeft',
x: 'toggleCursor',
v: 'paste',
})
(t.shift = {
  up: 'shiftUp',
  down: 'shiftDown',
  left: 'shiftLeft',
  right: 'shiftRight',
  tab: 'prev',
}),
(t.fn = {
  up: 'pageUp',
  down: 'pageDown',
  left: 'pageLeft',
  right: 'pageRight',
  delete: 'deleteForward',
}),
(t.option = {
  b: 'backward',
  f: 'forward',
  d: 'cutRight',
  left: 'cutLeft',
  up: 'altUp',
  down: 'altDown',
}),
(t.keys = {
  pageup: 'pageUp',
  pagedown: 'pageDown',
  home: 'home',
  end: 'end',
  cancel: 'cancel',
  delete: 'deleteForward',
  backspace: 'delete',
  down: 'down',
  enter: 'submit',
  escape: 'cancel',
  left: 'left',
  space: 'space',
  number: 'number',
  return: 'submit',
  right: 'right',
  tab: 'next',
  up: 'up',
})
},
64083: (e) => {
}
'use strict'
const t = (e) =>
((e) => e.filter((t, r) => e.lastIndexOf(t) === r))(e).filter(Boolean)
e.exports = (e, r = {}, A = '') => {
let n,
o,
{ past: i = [], present: s = '' } = r
switch (e) {
case 'prev':
case 'undo':
return (
(n = i.slice(0, i.length - 1)),
(o = i[i.length - 1] || ''),
{ past: t([A, ...n]), present: o }
)
case 'next':
case 'redo':
return (
(n = i.slice(1)),
(o = i[0] || ''),
{ past: t([...n, A]), present: o }
)
case 'save':
return { past: t([...i, A]), present: '' }
case 'remove':
return (
(o = t(i.filter((e) => e !== A))),
(s = ''),
o.length && (s = o.pop()),
{ past: o, present: s }
)
default:
throw new Error(`Invalid action: "${e}"`)
}
}
},
84368: (e, t, r) => {
'use strict'
const A = r(97991)
class n {
constructor(e) {
;(this.name = e.key),
(this.field = e.field || {}),
(this.value = ((e = '') =>
'string' == typeof e ? e.replace(/^['"]|['"]$/g, '') : '')(
e.initial || this.field.initial || '',
)),
(this.message = e.message || this.name),

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function o(e, t, r, A) {
    return (r, n, o, i) =>
    'function' == typeof o.field[e]
    ? o.field[e].call(t, r, n, o, i)
    : [A, r].find((e) => t.isValue(e))
}

exports = async (e) => {
    let t = e.options,
    r = new Set(!0 === t.required ? [] : t.required || []),
    i = { ...t.values, ...t.initial },
    { tabstops: s, items: a, keys: c } = await (async (e = {},
    t = {},
    r = (e) => e,
    ) =>
    let A = new Set(),
    o = e.fields || [],
    i = e.template,
    s = [],
    a = [],
    c = [],
    g = 1
    'function' == typeof i && (i = await i())
    let l = -1,
    u = () => i[++l],
    h = () => i[l + 1],
    p = (e) =>
    { ;(e.line = g).s.push(e)
    }
    for (p({ type: 'bos', value: '' }); l < i.length - 1; ) {
    let e = u()
    if(/^\^\S\n$/i.test(e)) {
        p({ type: 'text', value: e })
        continue
    }
    if ('\n' === e) {
        p({ type: 'newline', value: e }), g++
        continue
    }
    if ('\W' === e) {
        ;(e += u()), p({ type: 'text', value: e })
        continue
    }
}
if ('$' === e || '#' === e || '{' === e) && '{' === h()) {
    e += u()
    let i,
    s = {
      type: 'template',
      open: e,
      inner: '',
      close: '',
      value: e,
    }
    for (; (i = u()); ) {
      if ('}' === i) {
        '} === h() && (i += u()), (s.value += i), (s.close = i)
        break
      }
      ':' === i
        ? ((s.initial = ''), (s.key = s.inner))
        : void 0 !== s.initial && (s.initial += i),
        (s.value += i),
        (s.inner += i)
    }
    (s.template = s.open + (s.initial || s.inner) + s.close),
    (s.key = s.key || s.inner),
    t.hasOwnProperty(s.key) && (s.initial = t[s.key]),
    (s = r(s)),
    p(s),
    c.push(s.key),
    A.add(s.key)
    let g = a.find((e) => e.name === s.key)
    ;(s.field = o.find((e) => e.name === s.key)),
    g || ((g = new n(s)), a.push(g)),
    g.lines.push(s.line - 1)
    continue
  }
  let i = s[s.length - 1]
  'text' === i.type && i.line === g
    ? (i.value += e)
    : p({ type: 'text', value: e })
}
return (
  p({ type: 'eos', value: '' }),
  { input: i, tabstops: s, unique: A, keys: c, items: a }
)))(t, i),
g = o('result', e, t),
l = o('format', e, t),
u = o('validate', e, t, '0'),
h = e.isValue.bind(e)
return async (n = {}, o = !1) => {
    let i = 0
    ;(n.required = r), (n.items = a), (n.keys = c), (n.output = '')
    let p = async (e, t, r, A) => {
        return !1 === n ? 'Invalid field ' + r.name : n }
    for (let r of s) {
        let s = r.value,
            c = r.key
        if ('template' === r.type) {
            if ('template' === r.type) {
                let u = a.find((e) => e.name === c)
                !0 === t.required && n.required.add(u.name)
                let d = [u.input, n.values[u.value], u.value, s].find(h),
                    C = (u.field || {}).message || r.inner
                if (o) {
                    let e = await p(n.values[c], n, u, i)
                    if ((e && 'string' == typeof e) || !1 === e) {
                        n.invalid.set(c, e)
                        continue
                    }
                    n.invalid.delete(c)
                    let t = await g(n.values[c], n, u, i)
                    n.output += A.unstyle(t)
                    continue
                }
                u.placeholder = !1
                let f = s
                ;(s = await l(s, n, u, i)),
                d !== s
                ? ((n.values[c] = d),
                    (s = e.styles.typing(d)),
                    n.missing.delete(C))
                : ((n.values[c] = void 0),
                    (d = `'<${C}>')`,
                    (s = e.styles.primary(d)),
                    (u.placeholder = !0),
                    n.required.has(c) && & n.missing.add(C)),
                n.missing.has(C) &&
                n.validating &&
                (s = e.styles.warning(d)),
                i === n.index &&
                f !== s
const a = (e = '', t = {}) => {
  let r,
  A = {
    name: t.name,
    ctrl: !1,
    meta: !1,
    shift: !1,
    option: !1,
    sequence: e,
    raw: e,
    ...
  }

  if (Buffer.isBuffer(e))
  ? e[0] > 127 & & void 0 === e[1]
  ? ((e[0] -= 128), (e = '' + String(e)))
  : (e = String(e))
  : void 0 !== e & & 'string' !== typeof e
  ? (e = String(e))
  : e || (e = A.sequence || '')
  (A.sequence = A.sequence || e || A.name),
  \'\r\n\' === e

  (A.raw = void 0), (A.name = 'return')
else if ('\n' === e) A.name = 'enter'
else if ('\t' === e) A.name = 'tab'
else if ('\b' === e || '' === e || '' === e || '' === e)
  (A.name = 'backspace'), (A.meta = '' === e.charAt(0))
else if ('' === e || '' === e)
  (A.name = 'escape'), (A.meta = 2 === e.length)
else if (' ' === e || ' ' === e)
  (A.name = 'space'), (A.meta = 2 === e.length)
else if (e <= '')
  (A.name = String.fromCharCode(e.charCodeAt(0) + 'a'.charCodeAt(0) - 1,
    e.charCodeAtAt(0) + 'a'.charCodeAt(0) - 1,
  ),
  (A.ctrl = !0)
else if (1 === e.length & & e >= 0 & & e <= ')') A.name = 'number'
else if (1 === e.length & & e >= 'A' & & e <= 'Z') A.name = e
else if (1 === e.length & & e >= 'A' & & e <= 'Z')
  (A.name = e.toLowerCase()), (A.shift = !0)
else if ((r = o.exec(e)))
  (A.meta = !0), (A.shift = /^[A-Z]$/i.test(r[1])))
else if ((r = i.exec(e))) {
    let t = [...e]
    " === t[0] && " === t[1] && (A.option = !0)
    let n = [r[1], r[2], r[4], r[6]].filter(Boolean).join(''),
    ;(A.ctrl = !(4 & o)),
    (A.meta = !(10 & o)),
    (A.shift = !(1 & o)),
    (A.code = n),
    (A.name = s[n]),
    (A.shift =
      (function (e) {
        return [  
          '[a',  
          '[b',  
          '[c',  
          '[d',  
          '[e',  
          '[2$',  
          '[3$',  
          '[5$',  
          '[6$',  
          '[7$',  
          '[8$',  
          '[Z',  
          ].includes(e)
      })(n) || A.shift),
    (A.ctrl =
      (function (e) {
        return [  
          'Oa',  
          'Ob',  
          'Oc',  
          'Od',  
          'Oe',  
          '[2^',  
          '[3^',  
          '[5^',  
          '[6^',  
          '[7^',  
          '[8^',  
          ].includes(e)
      })(n) || A.ctrl)
return A
    })
    );(a.listen = (e = {}, t) => {
let { stdin: r } = e

if (!r || (r !== process.stdin && !r.isTTY))
    throw new Error('Invalid stream passed')
let n = A.createInterface({ terminal: !0, input: r })
A.emitKeypressEvents(r, n)
let o = (e, a) => t(e, a(e, r), n),
i = r.isRaw
r.isTTY && r.setRawMode(!0), r.on('keypress', o), n.resume()
return () => {
    r.isTTY && r.setRawMode(i),
    r.removeEventListener('keypress', o),
    n.pause(),
    n.close()
}
),
(a.action = (e, t, r) => {
    let A = { ...n, ...r }
    return t.ctrl
        ? ((t.action = A.ctrl[t.name]), t)
        : t.option && A.option
        ? ((t.action = A.option[t.name]), t)
        : t.shift
        ? ((t.action = A.shift[t.name]), t)
        : ((t.action = A.keys[t.name]), t)
}),
(e.exports = a)
,
96496: (e, t, r) => {
    'use strict'
    const A = r(10278)
e.exports = (e, t => {}) => {
    e.cursorHide()
    let [ 
        input: r = ",",
        initial: n = ",",
        pos: o,
        showCursor: i = !0,
        color: s,
    ] = t,
a = s || e.styles.placeholder,
c = A.inverse(e.styles.primary),
g = (t) => c(e.styles.black(t)),
l = r,
u = g(' ') if ( 
    (e.blink && !0 === e.blink.off && ((g = (e) => e), (u = ")),
    i && 0 === o && " === n && " === r)
) return g(' ')
if (i && 0 === o && (r === n || r === o))
    return g(n[0]) + a(n.slice(1))

if (n = A.isPrimitive(n) ? " + n : " + n.slice(0) + g(r[o]) + r.slice(o + 1)), (p = ""),
!l === i & & (p = ""),
h) {
    let t = e.styles.unstyle(l + p)
    return l + p + a(n.slice(t.length))
}

return l + p
}
},
58386: (e, t, r) => {
    'use strict'
    const A = r(28614),
    n = r(97991),
    o = r(30650),
    i = r(47159),
    s = r(61807),
    a = r(26205),
    c = r(10278),
    g = r(72380)
    class l extends A {
        constructor(e = { }) {
            super(),
            (this.name = e.name),
            (this.type = e.type),
            (this.options = e),
            a(this),
i(this),
            if (s(this)),
            (this.initial = [e.initial, e.default].find((e) => null != e)),
            (this.stdout = e.stdout || process.stdout),
            (this.stdin = e.stdin || process.stdin),
            (this.scale = e.scale || 1),
            (this.term = this.options.term || process.env.TERM_PROGRAM),
            (this.margin = (function (e) {
                'number' == typeof e & & (e = [e, e, e, e])
            let t = [].concat(e || []),
            r = (e => (e % 2 == 0 ? "\n" : "")),
            A = []
        }("Open Source Used in Cisco Cloud Mailbox Defense - CMD (Project Raptor) April 2021 20715"))}
for (let e = 0; e < 4; e++) {
    let n = r(e)
    t[e] ? A.push(n.repeat(t[e])) : A.push('')
}
return A
})(this.options.margin)),
this.setMaxListeners(0),
(function (e) {
    let t = (t) => void 0 === e[t] || 'function' === typeof e[t],
    r = [
        'actions',
        'choices',
        'initial',
        'margin',
        'roles',
        'styles',
        'symbols',
        'theme',
        'timers',
        'value',
    ],
    A = [
        'body',
        'footer',
        'error',
        'header',
        'hint',
        'indicator',
        'message',
        'prefix',
        'separator',
        'skip',
    ],
    for (let n of Object.keys(e.options)) {
        if (r.includes(n)) continue
        if (/^on[A-Z]/.test(n)) continue
        let o = e.options[n]
        'function' === typeof o && t(n)
        ? A.includes(n) || (e[n] = o.bind(e))
        : 'function' !== typeof e[n] && (e[n] = o)
    })(this)
async keypress(e, t = {}) {
    this.keypressed = !0
    let r = o.action(e, o(e, t), this.options.actions)
    ;(this.state.keypress = r),
    this.emit('keypress', e, r),
this.emit('state', this.state.clone())
let A = this.options[r.action] || this[r.action] || this.dispatch
if ('function' == typeof A) return await A.call(this, e, r)
this.alert()
}

alert() {
  delete this.state.alert,
  !1 === this.options.show
? this.emit('alert')
: this.stdout.write(g.code.beep)
}
cursorHide() {
  this.stdout.write(g.cursor.hide()),
c.onExit(() => this.cursorShow())
}
cursorShow() {
  this.stdout.write(g.cursor.show())
}
write(e) {
  e &&
  (this.stdout && !1 !== this.state.show && this.stdout.write(e),
  (this.state.buffer += e))
}
clear(e = 0) {
  let t = this.state.buffer
  ;(this.state.buffer = ""),
  (t || e) &&
  !1 !== this.options.show &&
  this.stdout.write(g.cursor.down(e) + g.clear(t, this.width))
}
restore() {
if (this.state.closed || !1 === this.options.show) return
let { prompt: e, after: t, rest: r } = this.sections(),
{
  cursor: A,
  initial: n = "",
  input: o = "",
  value: i = "",
} = this,
s = {
  after: t,
  cursor: A,
  initial: n,
  input: o,
  prompt: e,
  size: (this.state.size = r.length),
  value: i,
},

let { buffer: e, input: t, prompt: r } = this.state
r = n.unstyle(r)
let A = n.unstyle(e),
o = A.indexOf(r),
i = A.slice(0, o),
s = A.slice(o).split("\n"),
a = s[0],
c = s[s.length - 1],
g = (r + (t ? ' ' + t : '')).length,
l = g < a.length ? a.slice(g + 1) : "
return { header: i, prompt: a, after: l, rest: s.slice(1), last: c }
}
async submit() {
;((this.state.submitted = !0),
  (this.state.validating = !0),
  this.options.onSubmit &&
  (await this.options.onSubmit.call(
    this,
    this.name,
    this.value,
    this,
  ))
) let e =
  this.state.error || (await this.validate(this.value, this.state))
if (!0 !== e) {
  let t = '\n' + this.symbols.pointer + '

  return (
    t += 'string' == typeof e ? e.trim() : 'Invalid input'),
    (this.state.error = '\n' + this.styles.danger(t)),
    (this.state.submitted = !1),
    await this.render(),
    await this.alert(),
    (this.state.validating = !1),
    void (this.state.error = void 0)
  )
}
;((this.state.validating = !1),
  await this.render(),
  await this.close(),
  (this.value = await this.result(this.value)),
  this.emit('submit', this.value)
}
async cancel(e) {
  ;((this.state.cancelled = this.state.submitted = !0),
  a = g.cursor.restore(s)
  a && this.stdout.write(a)
}
await this.render(),
await this.close(),
'function' == typeof this.options.onCancel &
( await this.options.onCancel.call( 
this,
this.name,
this.value,
this,
)),
this.emit('cancel', await this.error(e))
}
async close() {
this.state.closed = !0
try {
let e = this.sections(),
t = Math.ceil(e.prompt.length / this.width)
e.rest && this.write(g.cursor.down(e.rest.length)),
this.write('
'.repeat(t))
} catch (e) {}
this.emit('close')
}
start() {
this.stop ||
!1 === this.options.show ||
((this.stop = o.listen(this, this.keypress.bind(this))),
this.once('close', this.stop))
}
async skip() {
return (this.skipped = !0 === this.options.skip),
'function' == typeof this.options.skip &
( this.skipped = await this.options.skip.call( 
this,
this.name,
this.value,
)),
this.skipped
}
}
async initialize() {
let { format: e, options: t, result: r } = this
if ( ((this.format = () => e.call(this, this.value)),
(this.result = () => r.call(this, this.value)),
'function' == typeof t.initial &
( this.initial = await t.initial.call(this, this)),
'function' == typeof t.onRun &
( await t.onRun.call(this, this)),
'function' == typeof t.onSubmit)
let e = t.onSubmit.bind(this),
    r = this.submit.bind(this)
delete this.options.onSubmit,
    (this.submit = async () => {
        await e(this.name, this.value, this), r()
    })
}

await this.start(), await this.render()
}

render() {
    throw new Error('expected prompt to have a custom render method')
}

run() {
    return new Promise(async (e, t) => {
        if (
            this.once('submit', e),
            this.once('cancel', t),
            await this.skip())
            return (this.render = () => {}), this.submit()
        await this.initialize(), this.emit('run')
    })
}

async element(e, t, r) {
    let { options: A, state: n, symbols: o, timers: i } = this,
        s = i && i[e]

    n.timer = s
    let a = A[e] || n[e] || o[e],
        c = t && null != t[e] ? t[e] : await a
    if ('' === c) return c
    let g = await this.resolve(c, n, t, r)
    if (!g && t && t[e] ? this.resolve(a, n, t, r) : g)
}

async prefix() {
    let e = (await this.element('prefix')) || this.symbols,
        t = this.timers && this.timers.prefix,
        r = this.state
    if (t)
        c.isObject(e) && (e = e[r.status] || e.pending),
        !c.hasColor(e))
    )
        return (this.styles[r.status] || this.styles.pending(e)
    )
    return e
}

async message() {
}
let e = await this.element('message')
return c.hasColor(e) ? e : this.styles.strong(e)
}
async separator() {
let e = (await this.element('separator')) || thissymbols,
t = this.timers && this.timers.separator,
r = this.state
r.timer = t
let A = e[r.status] || e.pending || r.separator,
n = await this.resolve(A, r)
return (c.isObject(n) && (n = n[r.status] || n.pending),
c.hasColor(n) ? n : this.styles.muted(n))
}
async pointer(e, t) {
let r = await this.element('pointer', e, t)
if ('string' === typeof r && c.hasColor(r)) return r
if (r) {
let e = this.styles,
A = this.index === t,
n = A ? e.primary : (e) => e,
o = await this.resolve(r[A ? 'on' : 'off'] || r, this.state),
i = c.hasColor(o) ? o : n(o)
return A ? i : ' '.repeat(o.length)
}
}
async indicator(e, t) {
let r = await this.element('indicator', e, t)
if ('string' === typeof r && c.hasColor(r)) return r
if (r) {
let t = this.styles,
A = !0 === e.enabled,
n = A ? t.success : t.dark,
o = r[A ? 'on' : 'off'] || r
return c.hasColor(o) ? o : n(o)
}
return ""
}
body() {
return null
}
footer() {
if ('pending' === this.state.status) return this.element('footer')
}
header() {
if ('pending' === this.state.status) return this.element('header')
}
async hint() {
  if (  
    'pending' === this.state.status &&
    !this.isValue(this.state.input)
  ) {
    let e = await this.element('hint')
    return c.hasColor(e) ? e : this.styles.muted(e)
  }
}

error(e) {
  return this.state.submitted ? '' : e || this.state.error
}

format(e) {
  return e
}

result(e) {
  return e
}

validate(e) {
  return !0 !== this.options.required || this.isValue(e)
}

isValue(e) {
  return null != e && '' !== e
}

resolve(e, ...t) {
  return c.resolve(this, e, ...t)
}

get base() {
  return l.prototype
}

get style() {
  return this.styles[this.state.status]
}

get height() {
  return this.options.rows || c.height(this.stdout, 25)
}

get width() {
  return this.options.columns || c.width(this.stdout, 80)
}

get size() {
  return { width: this.width, height: this.height }
}

set cursor(e) {
  this.state.cursor = e
}

get cursor() {
  return this.state.cursor
}
set input(e) {
    this.state.input = e
}

get input() {
    return this.state.input
}

set value(e) {
    this.state.value = e
}

get value() {
    let { input: e, value: t } = this.state,
        r = [t, e].find(this.isValue.bind(this))
    return this.isValue(r) ? r : this.initial
}

static get prompt() {
    return (e) => new this(e).run()
}

e.exports = l

63310: (e, t, r) => {
    'use strict'
    const A = r(31557)
    e.exports = class extends A {
        constructor(e) {
            super(e), this.cursorShow()
        }
        moveCursor(e) {
            this.state.cursor += e
        }
        dispatch(e) {
            return this.append(e)
        }
        space(e) {
            return this.options.multiple ? super.space(e) : this.append(e)
        }
        append(e) {
            let { cursor: t, input: r } = this.state
            return (this.input = r.slice(0, t) + e + r.slice(t)),
                    this.moveCursor(1),
                    this.complete()
        }
        delete() {
            let { cursor: e, input: t } = this.state
            return t
        }
    }
}
this.moveCursor(-1),
this.complete());
: this.alert()
}
deleteForward() {
let { cursor: e, input: t } = this.state
return void 0 === t[e]
? this.alert()
: ((this.input = ('' + t).slice(0, e) + ('' + t).slice(e + 1)),
this.complete())
}
number(e) {
return this.append(e)
}
async complete() {
:(this.completing = !0),
(this.choices = await this.suggest(
this.input,
this.state._choices,
)),
(this.state.limit = void 0),
(this.index = Math.min(  
Math.max(this.visible.length - 1, 0),
this.index,
)),
await this.render(),
(this.completing = !1)
}
suggest(e = this.input, t = this.state._choices) {
if ('function' === typeof this.options.suggest)
return this.options.suggest.call(this, e, t)
let r = e.toLowerCase()
return t.filter((e) => e.message.toLowerCase().includes(r))
}
pointer() {
return "
}
format() {
if (!this.focused) return this.input
if (this.options.multiple && this.state.submitted)
return this.selected
.map((e) => this.styles.primary(e.message))
.join(', ')
if (this.state.submitted) {
let e = (this.value = this.input = this.focused.value)
return this.styles.primary(e)
}
return this.input
async render() {
  if ('pending' !== this.state.status) return super.render()
  let e = this.options.highlight
    ? this.options.highlight.bind(this)
    : this.styles.placeholder,
  t = ((e, t) => {
    let r = e.toLowerCase()
    return (e) => {
      let A = e.toLowerCase().indexOf(r),
          n = t(e.slice(A, A + r.length))
      return A >= 0 ? e.slice(0, A) + n + e.slice(A + r.length) : e
    }
  })(this.input, e),
  r = this.choices
    .map((e) => ({ ...e, message: t(e.message) })),
  await super.render(),
  (this.choices = r)
}
submit() {
  return (this.options.multiple &&
    (this.value = this.selected.map((e) => e.name)),
    super.submit()
  )
}

52810: (e, t, r) => {
  'use strict'
  const A = r(46614)
  function n(e, t) {
    return (e.username === this.options.username &&
      e.password === this.options.password
    )
  }
  const o = (e = n) => {
    const t = [
      { name: 'username', message: 'username' },
      { name: 'password',
        message: 'password',
        format(e) {
          if (this.options.showPassword) return e
        return (this.state.submitted
          ? this.styles.primary
          : this.styles.muted)(this.symbols.asterisk.repeat(e.length))
    )
  )
}
```javascript
class r extends A.create(e) {
    constructor(e) {
        super({ ...e, choices: t })
    }
    static create(e) {
        return o(e)
    }
    return r
}
e.exports = o()
},
65742: (e, t, r) => {
    'use strict'
    const A = r(82710)
    e.exports = class extends A {
        constructor(e) {
            super(e),
            (this.default =
                this.options.default || (this.initial ? '(Y/n)' : '(y/N)'))
        }
    },
},
24570: (e, t, r) => {
    'use strict'
    const A = r(31557),
    n = r(71447).prototype
    e.exports = class extends A {
        constructor(e) {
            super({ ...e, multiple: '0' }),
            (this.align = [this.options.align, 'left'].find(
                (e) => null !== e,
            ),
            (this.emptyError = ''),
            (this.values = { })
        }
        dispatch(e, t) {
            let r = this.focused,
            A = r.parent || {};
            return r.editable || A.editable || ('a' !== e & & 'i' !== e)
                ? n.dispatch.call(this, e, t)
                : super[e]()
        }
        append(e, t) {
            return n.append.call(this, e, t)
        }
    }
```
delete(e, t) {
    return n.delete.call(this, e, t)
}
space(e) {
    return this.focused.editable ? this.append(e) : super.space()
}
number(e) {
    return this.focused.editable ? this.append(e) : super.number(e)
}
next() {
    return this.focused.editable ? n.next.call(this) : super.next()
}
prev() {
    return this.focused.editable ? n.prev.call(this) : super.prev()
}
async indicator(e, t) {
    let r = e.indicator || '',
    A = e.editable ? r : super.indicator(e, t)
    return (await this.resolve(A, this.state, e, t)) || ''
}
indent(e) {
    return 'heading' === e.role ? '' : e.editable ? ' ' : '  '
}
async renderChoice(e, t) {
    return (
        e.indent = '',
        e.editable
        ? n.renderChoice.call(this, e, t)
        : super.renderChoice(e, t)
    )
}
error() {
    return ''
}
footer() {
    return this.state.error
}
async validate() {
    let e = !0
    for (let t of this.choices) {
        if ('function' !== typeof t.validate) continue
        if ('heading' !== t.role) continue
        let r = t.parent ? this.value[t.parent.name] : this.value
        if (t.editable
            ? (r = t.value === t.name ? t.initial || '' : t.value)
            : this.isDisabled(t)
            ? (r = t.value || t.initial || '' : t.value)
            : this.isDisabled(t)
            ? (r = !0 === t.enabled)
        )
    }
}
<pre>const A = r(97991),
n = r(31557),
o = r(96496)
e.exports = class extends n {
  constructor(e) {
    super({ ...e, multiple: !0 }),
    (this.type = 'form'),
    (this.initial = this.options.initial),
    (this.align = [this.options.align, 'right'].find(        
      (e) => null !== e,
    )),
    (this.emptyError = ''),
    (this.values = {})
  }
  async reset(e) {
    return super.reset(),
    !0 !== e &&
    (this.index = this._index,
     (this._index = this.index),
    (this.index = this._index),
    (this.values = {})
  }
</pre>
dispatch(e) {
  return !!e && this.append(e)
}

append(e) {
  let t = this.focused
  if (!t) return this.alert()
  let { cursor: r, input: A } = t
  return {
    t.value = t.input = A.slice(0, r) + e + A.slice(r),
    t.cursor++,
    this.render()
  }
}
delete() {
  let e = this.focused
  if (!e || e.cursor <= 0) return this.alert()
  let { cursor: t, input: r } = e
  return {
    e.value = e.input = r.slice(0, t - 1) + r.slice(t),
    e.cursor--,
    this.render()
  }
}
deleteForward() {
  let e = this.focused
  if (!e) return this.alert()
  let { cursor: t, input: r } = e
  if (void 0 === r[t]) return this.alert()
  let A = ('' + r).slice(0, t) + ('' + r).slice(t + 1)
  return (e.value = e.input = A), this.render()
}
right() {
  let e = this.focused
  return e
    ? e.cursor >= e.input.length
    ? this.alert()
    : (e.cursor++, this.render())
    : this.alert()
}
left() {
  let e = this.focused
  return e
    ? e.cursor <= 0
    : this.alert()
? this.alert()
: (e.cursor--, this.render())
: this.alert()
}
space(e, t) {
  return this.dispatch(e, t)
}
number(e, t) {
  return this.dispatch(e, t)
}
next() {
  let e = this.focused
  if (!e) return this.alert()
  let { initial: t, input: r } = e
  return t && t.startsWith(r) && r !== t
  ? ((e.value = e.input = t),
    (e.cursor = e.value.length),
    this.render())
  : super.next()
}
prev() {
  let e = this.focused
  return e
  ? 0 === e.cursor
  ? super.prev()
  : ((e.value = e.input = ''), (e.cursor = 0), this.render())
  : this.alert()
}
separator() {
  return ''
}
format(e) {
  return this.state.submitted ? '' : super.format(e)
}
pointer() {
  return ''
}
indicator(e) {
  return e.input ? '' : ''
}
async choiceSeparator(e, t) {
  let r = (await this.resolve(e.separator, this.state, e, t)) || ':'
  return r ? '' + this.styles.disabled(r) : ''
}
async renderChoice(e, t) {
  await this.onChoice(e, t)
  let { state: r, styles: n } = this,
Open Source Used In Cisco Cloud Mailbox Defense -CMD (Project Raptor) April 2021
53609: (e, t, r) => {
  'use strict'
  const A = r(10278),
  n = (e, r) => {
    A.defineExport(t, e, r), A.defineExport(t, e.toLowerCase(), r)
  }
  n('AutoComplete', () => r(63310)),
  n('BasicAuth', () => r(52810)),
  n('Confirm', () => r(65742)),
  n('Editable', () => r(24570)),
  n('Form', () => r(71447)),
  n('Input', () => r(12372)),
  n('Invisible', () => r(32684)),
  n('List', () => r(40876)),
  n('MultiSelect', () => r(42293)),
  n('Numeral', () => r(42126)),
  n('Password', () => r(84697)),
  n('Scale', () => r(99580)),
  n('Select', () => r(31557)),
  n('Snippet', () => r(98094)),
  n('Sort', () => r(60042)),
  n('Survey', () => r(25223)),
  n('Text', () => r(97298)),
  n('Toggle', () => r(41817)),
  n('Quiz', () => r(88677))
}

12372: (e, t, r) => {
  'use strict'
  const A = r(45853),
  n = r(64083)
  e.exports = class extends A {
    constructor(e) {
      super(e)
      let t = this.options.history
      if (t && t.store) {
        let e = t.values || this.initial
        ;(this.autosave = !!t.autosave),
        (this.store = t.store),
        (this.data = this.store.get('values')) || {
          past: [],
          present: e,
        },
        (this.initial =
          this.data.present ||
          this.data.past[this.data.past.length - 1])
      }
    }
    completion(e) {
return this.store
? ((this.data = n(e, this.data, this.input)),
  this.data.present
? ((this.input = this.data.present),
  (this.cursor = this.input.length),
  this.render())
: this.alert())
: this.alert()
}

altUp() {
  return this.completion('prev')
}

altDown() {
  return this.completion('next')
}

prev() {
  return this.save(), super.prev()
}

save() {
  this.store &&
  ((this.data = n('save', this.data, this.input)),
  this.store.set('values', this.data))
}

submit() {
  return (
    this.store && !0 === this.autosave && this.save(), super.submit()
  )
}

}

32684: (e, t, r) => {
  'use strict'
  const A = r(45853)
  e.exports = class extends A {
    format() {
      return "
    }
  }
}

40876: (e, t, r) => {
  'use strict'
  const A = r(45853)
  e.exports = class extends A {
    constructor(e = {}) {
      super(e),
      (this.sep = this.options.separator || / //),
      (this.initial = e.initial || "")
    }
  }
}
split(e = this.value) {
    return e ? String(e).split(this.sep) : []
}

format() {
    let e = this.state.submitted ? this.styles.primary : (e) => e
    return this.list.map(e).join(', ')
}

async submit(e) {
    let t =
        this.state.error || (await this.validate(this.list, this.state))
    return !0 !== t
        ? ((this.state.error = t), super.submit())
        : ((this.value = this.list), super.submit())
}

get list() {
    return this.split()
}

},
42293: (e, t, r) => {
    'use strict'
    const A = r(31557)
    e.exports = class extends A {
        constructor(e) {
            super({ ...e, multiple: !0 })
        }
    }
},
42126: (e, t, r) => {
    e.exports = r(64987)
},
84697: (e, t, r) => {
    'use strict'
    const A = r(45853)
    e.exports = class extends A {
        constructor(e) {
            super(e, this.cursorShow())
            format(e = this.input) {
                if (!this.keypressed) return ”
                return (this.state.submitted
                    ? this.styles.primary
                    : this.styles.muted)(this.symbols.asterisk.repeat(e.length))
            }
        }
    }
},
88677: (e, t, r) => {
    'use strict'
const A = r(31557)
e.exports = class extends A {
  constructor(e) {
    if (super(e),
      'number' !== typeof this.options.correctChoice ||
      this.options.correctChoice < 0)
      throw new Error('Please specify the index of the correct answer from the list of choices',
    )
  }
  async toChoices(e, t) {
    let r = await super.toChoices(e, t)
    if (r.length < 2)
      throw new Error('Please give at least two choices to the user')
    if (this.options.correctChoice > r.length)
      throw new Error('Please specify the index of the correct answer from the list of choices',
    )
    return r
  }
  check(e) {
    return e.index === this.options.correctChoice
  }
  async result(e) {
    return {
      selectedAnswer: e,
      correctAnswer: this.options.choices[this.options.correctChoice].value,
      correct: await this.check(this.state),
    }
  }
}

99580: (e, t, r) => {
  'use strict'
  const A = r(97991),
  n = r(14723),
  o = r(10278)
e.exports = class extends n {
  constructor(e = {}) {
    super(e),
    (this.widths = [].concat(e.messageWidth || 50)),
    (this.align = [].concat(e.align || 'left')),
    (this.linebreak = e.linebreak || ' '1),
    (this.edgeLength = e.edgeLength || 3),
    (this.newline = e.newline || 'n ')
  }
}
let t = e.startNumber || 1
'number' == typeof this.scale &&
((this.scaleKey = !1),
(this.scale = Array(this.scale)
  .fill(0)
  .map((e, r) => ({ name: r + t })))
}
async reset() {
  return (this.tableized = !1), await super.reset(), this.render()
}

tableize() {
  if (!0 === this.tableized) return
  this.tableized = !0
  let e = 0
  for (let t of this.choices) {
    ;(e = Math.max(e, t.message.length)),
    (t.scaleIndex = t.initial || 2),
    (t.scale = [])
    for (let e = 0; e < this.scale.length; e++)
      t.scale.push({ index: e })
  }
  this.widths[0] = Math.min(this.widths[0], e + 3)
}
async dispatch(e, t) {
  if (this.multiple)
    return this[t.name]
  ? await this[t.name](e, t)
  : await super.dispatch(e, t)
  this.alert()
}
heading(e, t, r) {
  return this.styles.strong(e)
}
separator() {
  return this.styles.muted(this.symbols.ellipsis)
}
right() {
  let e = this.focused
  return e.scaleIndex >= this.scale.length - 1
    ? this.alert()
    : (e.scaleIndex++, this.render())
}
left() {
  let e = this.focused
  return e.scaleIndex <= 0
    ? this.alert()
    : (e.scaleIndex--, this.render())
}
indent() {
    return "
}

format() {
    if (this.state.submitted) {
        return this.choices
            .map((e) => this.styles.info(e.index))
            .join(', ')
    }
    return "
}

pointer() {
    return "
}

renderScaleKey() {
    if (!1 === this.scaleKey) return "
    if (this.state.submitted) return "
    return ['
        ...
    .map((e) => this.styles.muted(e))
    .join('
')
}

renderScaleHeading(e) {
    let t = this.scale.map((e) => e.name)
    'function' === typeof this.options.renderScaleHeading &&
    (t = this.options.renderScaleHeading.call(this, e))
    let r = this.scaleLength - t.join('').length,
    A = Math.round(r / (t.length - 1)),
    n = t.map((e) => this.styles.strong(e)).join(' '.repeat(A)),
    o = ' '.repeat(this.widths[0])
    return this.margin[3] + o + this.margin[1] + n
}

scaleIndicator(e, t, r) {
    if ('function' === typeof this.options.scaleIndicator)
        return this.options.scaleIndicator.call(this, e, t, r)
    let A = e.scaleIndex === t.index
    return t.disabled
        ? this.styles.hint(this.symbols.radio.disabled)
        : A
    ? this.styles.success(this.symbols.radio.on)
    : this.symbols.radio.off
}

renderScale(e, t) {
    let r = e.scale.map((r) => this.scaleIndicator(e, r, t)),
    A = 'Hyper' === this.term ? '' : ''
    return r.join(A + this.symbols.line.repeat(this.edgeLength))
}

async renderChoice(e, t) { await this.onChoice(e, t)
let r = this.index === t,
n = await this.pointer(e, t),
i = await e.hint
i && !o.hasColor(i) && (i = this.styles.muted(i))
let s = (e) =>
  this.margin[3] +
e.replace(/s+/,$).padEnd(this.widths[0],""),
a = this.newline,
c = this.indent(e),
g = await this.resolve(e.message, this.state, e, t),
l = await this.renderScale(e, t),
u = this.margin[1] + this.margin[3]
:(this.scaleLength = A.unstyle(l).length),
(this.widths[0] = Math.min
  this.widths[0],
  this.width - this.scaleLength - u.length,
))
let h = o
  .wordWrap(g, { width: this.widths[0], newline: a })
  .split("\n")
  .map((e) => s(e) + this.margin[1])
return (
  r &&
  ((l = this.styles.info(l)),
  (h = h.map((e) => this.styles.info(e))),(h[0] += l),
  this.linebreak && h.push(""),
  [c + n, h.join("\n")].filter(Boolean)
)}
}
async renderChoices() {
  if (this.state.submitted) return 
  this.tableize()
  let e = this.visible.map(
    async (e, t) => await this.renderChoice(e, t),
  ),
  t = await Promise.all(e),
  r = await this.renderScaleHeading()
  return this.margin[0] + [r, ...t.map((e) => e.join(""))].join("\n")
}
async render() {
  let { submitted: e, size: t } = this.state,
  r = await this.prefix(),
  A = await this.separator(),
  n = await this.message(),
  o = "
  !1 !== this.options.promptLine &&
  ((o = [r, n, A, ","].join("")), (this.state.prompt = o))

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let i = await this.header(),
s = await this.format(),
a = await this.renderScaleKey(),
c = (await this.error()) || (await this.hint()),
g = await this.renderChoices(),
l = await this.footer(),
u = this.emptyError
s && (o += s),
c && !o.includes(c) && (o += " " + c),
e &&
!s &&
!g.trim() &&
this.multiple &&
null != u &&
(o += this.styles.danger(u)),
this.clear(t),
this.write([i, o, a, g, l].filter(Boolean).join(' ')),
this.state.submitted || this.write(this.margin[2]),
this.restore()
}

submit() {
  this.value = {
    for (let e of this.choices) this.value[e.name] = e.scaleIndex
  return this.base.submit.call(this)
}
}

31557: (e, t, r) => {
  'use strict'
const A = r(14723),
n = r(10278)
e.exports = class extends A {
  constructor(e) {
    super(e),
    (this.emptyError =
      this.options.emptyError || 'No items were selected')
  }
  async dispatch(e, t) {
    if (this.multiple)
      return this[t.name]
        ? await this[t.name](e, t)
      : await super.dispatch(e, t)
    this.alert()
  }
  separator() {
    if (this.options.separator) return super.separator()
    let e = this.styles.muted(this.symbols.ellipsis)
    return this.state.submitted ? super.separator() : e
pointer(e, t) {
  return !this.multiple || this.options.pointer ? super.pointer(e, t) : ""
}

indicator(e, t) {
  return this.multiple ? super.indicator(e, t) : ""
}

choiceMessage(e, t) {
  let r = this.resolve(e.message, this.state, e, t)
  return ('heading' !== e.role ||
    n.hasColor(r) ||
    (r = this.styles.strong(r)),
    this.resolve(r, this.state, e, t)
  )
}

choiceSeparator() {
  return ':'
}

async renderChoice(e, t) {
  await this.onChoice(e, t)
  let r = this.index === t,
    A = await this.pointer(e, t),
    o = (await this.indicator(e, t)) + (e.pad || "").
    i = await this.resolve(e.hint, this.state, e, t)
  i && !n.hasColor(i) && (i = this.styles.muted(i))
  let s = this.indent(e),
    a = await this.choiceMessage(e, t),
    c = () =>
      [this.margin[3], s + A + o, a, this.margin[1], i]
      .filter(Boolean)
      .join(' ')
  return 'heading' === e.role
    ? c()
    : e.disabled
    ? (n.hasColor(a) || (a = this.styles.disabled(a)), c())
    : (r && (a = this.styles.em(a)), c())
}

async renderChoices() {
  if ('choices' === this.state.loading)
    return this.styles.warning('Loading choices')
  if (this.state.submitted) return ""
  let e = this.visible.map( async (e, t) => await this.renderChoice(e, t),
    t = await Promise.all(e)
  )
t.length || t.push(this.styles.danger('No matching choices'))
let r,
A = this.margin[0] + t.join('
')
return (this.options.choicesHeader &&
(r = await this.resolve(
this.options.choicesHeader,
this.state,
)),
[r, A].filter(Boolean).join('
'))
}
}
format() {
return !this.state.submitted || this.state.cancelled
?
: Array.isArray(this.selected)
? this.selected.map((e) => this.styles.primary(e.name)).join(', ')
: this.styles.primary(this.selected.name)
}
async render() {
let { submitted: e, size: t } = this.state,
r = '',
A = await this.header(),
n = await this.prefix(),
o = await this.separator(),
i = await this.message()
!! !== this.options.promptLine &&
((r = [n, i, o, ''].join(' ')), (this.state.prompt = r))
let s = await this.format(),
a = (await this.error()) || (await this.hint()),
c = await this.renderChoices(),
g = await this.footer()
s && (r += s),
a && !r.includes(a) && (r += ' ' + a),
e &&
's &&
!c.trim() &&
this.multiple &&
null != this.emptyError &&
(r += this.styles.danger(this.emptyError)),
this.clear(t),
this.write([A, r, c, g].filter(Boolean).join('
')), this.write(this.margin[2]),
this.restore()
}
}
'use strict'
const A = r(97991),
n = r(84368),
o = r(58386)
e.exports = class extends o {
constructor(e) {
    super(e), this.cursorHide(), this.reset(!0)
}
async initialize() {
    ;(this.interpolate = await n(this)), await super.initialize()
}
async reset(e) {
    ;(this.state.keys = []),
    (this.state.invalid = new Map()),
    (this.state.missing = new Set()),
    (this.state.completed = 0),
    (this.state.values = {}),
!0 !== e && (await this.initialize(), await this.render())
}
moveCursor(e) {
    let t = this.getItem()
    ;(this.cursor += e), (t.cursor += e)
}
dispatch(e, t) {
    t.code || t.ctrl || null == e || !this.getItem()
? this.alert()
    : this.append(e, t)
}
append(e, t) {
    let r = this.getItem(),
    A = r.input.slice(0, this.cursor),
    n = r.input.slice(this.cursor);
    (this.input = r.input = `${A}${e}${n}`),
    this.moveCursor(1),
    this.render()
}
delete() {
    let e = this.getItem()
    if (this.cursor <= 0 || !e.input) return this.alert()
    let t = e.input.slice(this.cursor),
    r = e.input.slice(0, this.cursor - 1)
    ;(this.input = e.input = '${r}$${t}$'),
    this.moveCursor(-1),
    this.render()
}
increment(e) {
    return e >= this.state.keys.length - 1 ? 0 : e + 1
}
decrement(e) {
    return e <= 0 ? this.state.keys.length - 1 : e - 1
}

first() {
    :(this.state.index = 0), this.render()
}

last() {
    :(this.state.index = this.state.keys.length - 1), this.render()
}

right() {
    if (this.cursor >= this.input.length) return this.alert()
    this.moveCursor(1), this.render()
}

left() {
    if (this.cursor <= 0) return this.alert()
    this.moveCursor(-1), this.render()
}

prev() {
    :(this.state.index = this.decrement(this.state.index)),
    this.getItem(),
    this.render()
}

next() {
    :(this.state.index = this.increment(this.state.index)),
    this.getItem(),
    this.render()
}

up() {
    this.prev()
}

down() {
    this.next()
}

format(e) {
    let t =
        this.state.completed < 100
        ? this.styles.warning
        : this.styles.success
    return (100 !== this.state.completed &&
        ![0 === this.state.submitted &&
            100 !== this.state.completed &&
            (t = this.styles.danger),
            t(this.state.completed + '% completed'))
    )
}

async render() {
    let { index: e, keys: t = [], submitted: r, size: A } = this.state,
    n = [this.options.newline, '\n'].find((e) => null !== e),

o = await this.prefix(),
i = await this.separator(),
s = [o, await this.message(), i].filter(Boolean).join(' ')
this.state.prompt = s
let a = await this.header(),
c = (await this.error()) || '
',
g = (await this.hint()) || '
',
l = r ? '' : await this.interpolate(this.state),
u = (this.state.key = t[e] || ''),
h = await this.format(u),
p = await this.footer()
h && (s += ' ' + h),
g && !h && 0 === this.state.completed && (s += ' ' + g),
this.clear(A)
let d = [a, s, l, p, c.trim()]
this.write(d.filter(Boolean).join(n)), this.restore()
}

getItem(e) {
let { items: t, keys: r, index: A } = this.state,
n = t.find((e) => e.name === r[A])
return {
  n &&
  null != n.input &&
  ((this.input = n.input), (this.cursor = n.cursor)),
  n
}
async submit() {
  'function' != typeof this.interpolate && (await this.initialize()),
  await this.interpolate(this.state, !0)
  let { invalid: e, missing: t, output: r, values: n } = this.state
  if (e.size)
  let t = ''
  for (let [r, A] of e) t += `Invalid ${r}: ${A}
` 
return (this.state.error = t), super.submit()
}
if (t.size)
return {
  (this.state.error = 'Required: ' + [...t.keys()].join(', ')),
super.submit()
}
let o = A.unstyle(r)
  .split('n')
  .map((e) => e.slice(1))
  .join('n')
return (this.value = (values: n, result: o)), super.submit()
}
'use strict'
const A = 'Use <shift>+<up/down> to sort',
n = r(31557)
e.exports = class extends n {
constructor(e) {
    super({ ...e, reorder: !1, sort: !0, multiple: !0 }),
    (this.state.hint = [this.options.hint, A].find(
        this.isValue.bind(this),
    ));
}
indicator() {
    return ''
}
async renderChoice(e, t) {
    let r = await super.renderChoice(e, t),
        A = this.symbols.identicalTo + ' ',
        n = this.index === t & this.sorting ? this.styles.muted(A) : ' ': '
    return ( !1 === this.options.drag && (n = ''),
        !0 === this.options.numbered ? n + (t + 1 + ' - ') + r : n + r;
    )
}
get selected() {
    return this.choices
}
submit() {
    return (this.value = this.choices.map((e) => e.value)), super.submit()
}
}

25223: (e, t, r) => {
   'use strict'
const A = r(14723)
function n(e, t = []) {
    if (Array.isArray(t.scale)) return t.scale.map((e) => ({ ...e }));
    let r = [
        for (let t = 1; t < e + 1; t++) r.push({ i: t, selected: !1 })
    ]
    return r
}
e.exports = class extends A {
constructor(e = []) {
    if (super(e),
        (this.emptyError = e.emptyError || 'No items were selected'),
    )
}
let e = [
    ',
    '4 - Strongly Agree',
    '3 - Agree',
    '2 - Neutral',
    '1 - Disagree',
    '0 - Strongly Disagree',
    ',
];
    (e = e.map((e) => this.styles.muted(e))),
    (this.state.header = e.join('
   '))
  }
}
async toChoices(...e) {
if (this.createdScales) return !1
this.createdScales = !0
let t = await super.toChoices(...e)
for (let e of t) (e.scale = n(5, this.options)), (e.scaleIdx = 2)
return t
}
dispatch() {
  this.alert()
}
space() {
  let e = this.focused,
      t = e.scale[e.scaleIdx],
      r = t.selected
  return (
    e.scale.forEach((e) => (e.selected = !1)),
    (t.selected = !r),
    this.render()
  )
}
indicator() {
  return ""
}
pointer() {
  return ""
}
separator() {
  return this.styles.muted(this.symbols.ellipsis)
}
right() {
  let e = this.focused
  return e.scaleIdx >= e.scale.length - 1
}
left() {
    let e = this.focused
    return e.scaleIdx <= 0
    ? this.alert()
    : (e.scaleIdx--, this.render())
}
indent() {
    return '   '}
async renderChoice(e, t) {
    await this.onChoice(e, t)
    let r = this.index === t,
        A = 'Hyper' === this.term,
        n = A ? 9 : 8,
        o = A ? '' : ' ',
        i = this.symbols.line.repeat(n),
        s = ' '.repeat(n + (A ? 0 : 1)),
        a = (e) => (e ? this.styles.success('') : '') + o,
        c = t + 1 + '.',
        g = r ? this.styles.heading : this.styles.noop,
        l = await this.resolve(e.message, this.state, e, t),
        u = this.indent(e),
        h = u + e.scale.map((t, r) => a(r === e.scaleIdx)).join(i),
        s = u + e.scale.map((t, r) => ((t) => (t === e.scaleIdx ? g(t) : t))(r)).join(s)
    return r && ((h = this.styles.cyan(h)), (p = this.styles.cyan(p)),
    [c, l].filter(Boolean).join(' '), h, p, '');
}
async renderChoices() {
    if (this.state.submitted) return ''
    let e = this.visible.map(async (e, t) => await this.renderChoice(e, t),
    ).
    t = await Promise.all(e)
    return (t.length || t.push(this.styles.danger('No matching choices'))),
    t.join('
')
}
format() {
    if (this.state.submitted) {
        return this.choices
            .map((e) => this.styles.info(e.scaleIdx))
            .join(', ')
    }
    return ''
}

async render() {
    let { submitted: e, size: t } = this.state,
        r = await this.prefix(),
        A = await this.separator(),
        n = [r, await this.message(), A].filter(Boolean).join(' ')
    this.state.prompt = n
    let o = await this.header(),
        i = await this.format(),
        s = (await this.error()) || (await this.hint()),
        a = await this.renderChoices(),
        c = await this.footer();
    (i && s) || (n += ' ' + i),
    s && !n.includes(s) && (n += ' ' + s),
    e && !i && !a &&
        this.multiple &&
        'form' !== this.type &&
        (n += this.styles.danger(this.emptyError)),
    this.clear(t),
    this.write([n, o, a, c].filter(Boolean).join('
')),
    this.restore()
}

submit() {
    this.value = {}
    for (let e of this.choices) this.value[e.name] = e.scaleIdx
    return this.base.submit.call(this)
}

\}

97298: (e, t, r) => {
    e.exports = r(12372)
},

41817: (e, t, r) => {
    'use strict'
    const A = r(82710)
    e.exports = class extends A {
        async initialize() {
            await super.initialize(),
    
}
(this.value = this.initial = !!this.options.initial),
(this.disabled = this.options.disabled || 'no'),
(this.enabled = this.options.enabled || 'yes'),
await this.render()
}

reset() {
   :(this.value = this.initial), this.render()
}
delete() {
   this.alert()
}
toggle() {
   :(this.value = !this.value), this.render()
}

enable() {
   if (!0 === this.value) return this.alert()
   :(this.value = !0), this.render()
}
disable() {
   if (!1 === this.value) return this.alert()
   :(this.value = !1), this.render()
}

toggle()

up() {
   this.toggle()

}
down() {
   this.toggle()
}

right() {
   this.toggle()
}

left() {
   this.toggle()
}

next() {
   this.toggle()
}

prev() {
   this.toggle()
}

dispatch(e = '', t) {
switch (e.toLowerCase()) {
   case ' ':
      return this.toggle()
   case '1':
   case 'y':
   case 't':
      return this.enable()
case '0':
case 'n':
case 'f':
    return this.disable()
default:
    return this.alert()
}
}

format() {
    let e = (e) => this.styles.primary.underline(e)
    return [
        this.value ? this.disabled : e(this.disabled),
        this.value ? e(this.enabled) : this.enabled,
    ].join(this.styles.muted(' / '))
}

async render() {
    let { size: e } = this.state,
        t = await this.header(),
        r = await this.prefix(),
        A = await this.separator(),
        n = await this.message(),
        o = await this.format(),
        i = (await this.error()) || (await this.hint()),
        s = await this.footer(),
        a = [r, n, A, o].join(' ');
    this.state.prompt = a,
    i && !a.includes(i) && (a += ' ' + i),
    this.clear(e),
    this.write([t, a, s].filter(Boolean).join('
')), this.write(this.margin[2]), this.restore()
}

27011: (e, t, r) => {
    'use strict'
    const A = r(10278),
        n = {
            default: (e, t) => t,
            checkbox(e, t) { throw new Error('checkbox role is not implemented yet') },
            editable(e, t) { throw new Error('editable role is not implemented yet') },
            expandable(e, t) { throw new Error('expandable role is not implemented yet') }
        }.
heading: (e, t) => {
  (t.disabled = "")
  (t.indicator = [t.indicator, "]"].find((e) => null != e))
  (t.message = t.message || ")
  t
}

input(e, t) {
  throw new Error('input role is not implemented yet')
}

option: (e, t) => n.default(e, t)

radio(e, t) {
  throw new Error('radio role is not implemented yet')
}

separator: (e, t) => {
  (t.disabled = "")
  (t.indicator = [t.indicator, "]"].find((e) => null != e))
  (t.message = t.message || e.symbols.line.repeat(5))
  t
}

spacer: (e, t) => t,
}

61807: (e, t, r) => {

'use strict'

const { define: A, width: n } = r(10278)
e.exports = class {
  constructor(e) {
    let t = e.options
    A(this, '__prompt', e),
    (this.type = e.type),
    (this.name = e.name),
    (this.message = ""),
    (this.header = ""),
    (this.footer = ""),
    (this.error = ""),
    (this.hint = ""),
    (this.input = ""),
    (this.cursor = 0),
    (this.index = 0),
    (this.lines = 0),
    (this.tick = 0),
    (this.prompt = ""),
    (this.buffer = ""),
    (this.width = n(t.stdout || process.stdout)),}
Object.assign(this, t),
(this.name = this.name || this.message),
(this.message = this.message || this.name),
(this.symbols = e.symbols),
(this.styles = e.styles),
(this.required = new Set()),
(this.cancelled = !1),
(this.submitted = !1)
}
clone() {
let e = { ...this }
return {
(e.status = this.status),
(e.buffer = Buffer.from(e.buffer)),
delete e.clone,
}
}
set color(e) {
this._color = e
}
get color() {
let e = this.prompt.styles
if (this.cancelled) return e.cancelled
if (this.submitted) return e.submitted
let t = this._color || e[this.status]
return 'function' == typeof t ? t : e.pending
}
set loading(e) {
this._loading = e
}
get loading() {
return 'boolean' == typeof this._loading
? this._loading
: !!this.loadingChoices && 'choices'
}
get status() {
return this.cancelled
? 'cancelled'
: this.submitted
? 'submitted'
: 'pending'
}

64402: (e, t, r) => {
'use strict'
const A = r(10278),
n = r(97991),
o = {
    default: n.noop,
noop: n.noop,
    set inverse(e) {
        this._inverse = e
    },
    get inverse() {
        return this._inverse || A.inverse(this.primary)
    },
    set complement(e) {
        this._complement = e
    },
    get complement() {
        return this._complement || A.complement(this.primary)
    },
    primary: n.cyan,
    success: n.green,
    danger: n.magenta,
    strong: n.bold,
    warning: n.yellow,
    muted: n.dim,
    disabled: n.gray,
    dark: n.dim.gray,
    underline: n.underline,
    set info(e) {
        this._info = e
    },
    get info() {
        return this._info || this.primary
    },
    set em(e) {
        this._em = e
    },
    get em() {
        return this._em || this.primary.underline
    },
    set heading(e) {
        this._heading = e
    },
    get heading() {
        return this._heading || this.muted.underline
    },
    set pending(e) {
        this._pending = e
    },
    get pending() {
        return this._pending || this.primary
    },
set submitted(e) {
    this._submitted = e
},
get submitted() {
    return this._submitted || this.success
},
set cancelled(e) {
    this._cancelled = e
},
get cancelled() {
    return this._cancelled || this.danger
},
set typing(e) {
    this._typing = e
},
get typing() {
    return this._typing || this.dim
},
set placeholder(e) {
    this._placeholder = e
},
get placeholder() {
    return this._placeholder || this.primary.dim
},
set highlight(e) {
    this._highlight = e
},
get highlight() {
    return this._highlight || this.inverse
},
merge: (e = {}) => {
    e.styles &&
    'boolean' == typeof e.styles.enabled &&
    (n.enabled = e.styles.enabled),
    e.styles &&
    'boolean' == typeof e.styles.visible &&
    (n.visible = e.styles.visible)
    let t = A.merge({}, o, e.styles)
    delete t.merge
    for (let e of Object.keys(n))
        Reflect.defineProperty(t, e, { get: () => n[e] })
    for (let e of Object.keys(n.styles))
        Reflect.defineProperty(t, e, { get: () => n[e] })
    return t
}.
`use strict`

const A = 'win32' === process.platform,
    n = r(97991),
    o = r(10278),
    i = {
        ...n.symbols,
        upDownDoubleArrow: ",
        upDownDoubleArrow2: "",
        upDownArrow: "",
        asterisk: "*",
        asterism: "",
        bulletWhite: "",
        electricArrow: "",
        ellipsisLarge: "",
        ellipsisSmall: "",
        fullBlock: "",
        identicalTo: "",
        indicator: n.symbols.check,
        leftAngle: "",
        mark: "",
        minus: "",
        multiplication: "",
        obelus: "",
        percent: '%",
        pilcrow: "",
        pilcrow2: "",
        pencilUpRight: "",
        pencilDownRight: "",
        pencilRight: "",
        plus: '+",
        plusMinus: "",
        pointRight: "",
        rightAngle: "",
        section: "",
        hexagon: { off: "", on: "", disabled: "" },
        ballot: { on: "", off: "", disabled: "" },
        stars: { on: "", off: "", disabled: "" },
        folder: { on: "", off: "", disabled: "" },
        prefix: {
            pending: n.symbols.question,
            submitted: n.symbols.check,
            cancelled: n.symbols.cross,
        },
        separator: {
```

;[:i.merge = (e) => {
  let t = i.merge({}, e.symbols, i, e.symbols)
  return delete t.merge, t
}),
  (e.exports = i)
},
26205: (e, t, r) => {
  'use strict'
  const A = r(64402),
  n = r(50511),
  o = r(10278)
  e.exports = (e) => {
    (e.options = o.merge({}, e.options.theme, e.options)),
    (e.symbols = n.merge(e.options)),
    (e.styles = A.merge(e.options))
  }
},
47159: (e) => {
  'use strict'
  function t(e, t, r = {}) {
    let A = (e.timers[t] = {
      name: t,
      start: Date.now(),
      ms: 0,
      tick: 0,
    }),
    n = r.interval || 120
    (A.frames = r.frames || []), (A.loading = !0)
    let o = setInterval(() => {
      (A.ms = Date.now() - A.start), A.tick++, e.render()
    }, n)
    return (A.stop = () => {
```
Reflect.defineProperty(A, 'interval', { value: o }),
e.once('close', () => A.stop()),
A.stop
}
}
e.exports = (e) => {
e.timers = e.timers || {}
let r = e.options.timers
if (r)
for (let A of Object.keys(r)) {
    let n = r[A]
    'number' == typeof n &&
    (n = { interval: n }), t(e, A, n)
}
}
}
14723: (e, t, r) => {
'use strict'
const A = r(97991),
n = r(58386),
o = r(27011),
i = r(10278),
{ reorder: s, scrollUp: a, scrollDown: c, isObject: g, swap: l } = i
function u(e, t) {
if (t instanceof Promise) return t
if ('function' == typeof t) {
    if (i.isAsyncFn(t)) return t
    t = t.call(e, e)
}
for (let r of t) {
    if (Array.isArray(r.choices)) {
        let t = r.choices.filter((t) => !e.isDisabled(t))
        r.enabled = t.every((e) => !0 === e.enabled)
    }
    !0 === e.isDisabled(r) && delete r.enabled
}
return t
}
e.exports = class extends n {
constructor(e) {
    super(e),
    this.cursorHide(),
    (this.maxSelected = e.maxSelected || 1 / 0),
    (this.multiple = e.multiple || 0),
    (this.initial = e.initial || 0),
    (this.longest = 0),
    (this.delay = e.delay || 0),
    (this.longest = 0),
    (this.longest = 0),
async initialize() {
'function' == typeof this.options.initial &&
  (this.initial = await this.options.initial.call(this)),
  await this.reset(!0),
  await super.initialize()
}
async reset() {
  let {
    choices: e,
    initial: t,
    autofocus: r,
    suggest: A,
  } = this.options
  if (t)
    throw new Error('At least one choice must be selectable')
  g(t) && (t = Object.keys(t)),
  Array.isArray(t)
    ? (null != r && (this.index = this.findIndex(r)),
      t.forEach((e) => this.enable(this.find(e))),
      await this.render())
      : (null != r && (t = r),
      'string' == typeof t && (t = this.findIndex(t)),
      'number' == typeof t &&
      t > -1 &&
      ((this.index = Math.max(0,
      Math.min(t, this.choices.length),
      )),
      this.enable(this.find(this.index))),
      this.isDisabled(this.focused) && (await this.down())
  }
async toChoices(e, t) {
  this.state.loadingChoices = !0
  let r = [],
  A = 0,
  n = async (e, t) => {
    'function' == typeof e && (e = await e.call(this)),
    e instanceof Promise && (e = await e)
    for (let o = 0; o < e.length; o++) {
      let i = (e[o] = await this.toChoice(e[o], A++, t))
    }
r.push(i), i.choices && (await n(i.choices, i))
}
return r
}
return n(e, t).then((e) => ((this.state.loadingChoices = !1), e))
}
async toChoice(e, t, r) {
if (  
('function' == typeof e && (e = await e.call(this, this)),  
  e instanceof Promise && (e = await e),  
  'string' == typeof e && (e = { name: e }),  
  e.normalized)
)
  return e
}
e.normalized = !0  
let n = e.value,  
s = o(e.role, this.options)
if (  
  ('string' != typeof (e = s(this, e)).disabled ||  
    e.hint ||  
    ((e.hint = e.disabled), (e.disabled = !0)),  
    !0 === e.disabled && null == e.hint && (e.hint = '(disabled)'),  
    null !== e.index)
)
  return e
)(e.name = e.name || e.key || e.title || e.value || e.message),  
  (e.message = e.message || e.name || ''),  
  (e.value = [e.value, e.name].find(this.isValue.bind(this))),  
  (e.input = ''),  
  (e.index = t),  
  (e.cursor = 0),  
i.define(e, 'parent', r),  
  (e.level = r ? r.level + 1 : 1),  
  null == e.indent &&  
    (e.indent = r ? r.indent + ' ' : e.indent || ''),  
  (e.path = r ? r.path + '.' + e.name : e.name),  
  (e.enabled = !(
    !this.multiple ||  
    this.isDisabled(e) ||  
    (!e.enabled && !this.isSelected(e))
  )) ||  
  this.isDisabled(e) ||  
  (this.longest = Math.max(  
    this.longest,  
    A.unstyle(e.message).length,  
  )
)
let a = { ...e }
return (
(e.reset = (t = a.input, r = a.value) => {
  for (let t of Object.keys(a)) e[t] = a[t]
  ;(e.input = t), (e.value = r)
}),
null == n &&
'function' == typeof e.initial &&
  (e.input = await e.initial.call(this, this.state, e, t)),
e
})
async onChoice(e, t) {
  this.emit('choice', e, t, this),
  'function' == typeof e.onChoice &&
  (await e.onChoice.call(this, this.state, e, t))
}
async addChoice(e, t, r) {
  let A = await this.toChoice(e, t, r)
  return (
    this.choices.push(A),
    (this.index = this.choices.length - 1),
    (this.limit = this.choices.length),
    A,
  )
}
async newItem(e, t, r) {
  let A = {
    name: 'New choice name?',
    editable: !0,
    newChoice: !0,
    ...e,
  },
  n = await this.addChoice(A, t, r)
  return (
    (n.updateChoice = () => { return null == e.indent
                         ? e.level > 1
                         ? ` `.repeat(e.level - 1)
                         : " 
                          : e.indent
                           }()
                           });
  this.render()
  )
)
indent(e) {
  return null == e.indent
    ? e.level > 1
    ? `' `.repeat(e.level - 1)
    : " 
      : e.indent
    )


dispatch(e, t) {
  if (this.multiple && this[t.name]) return this[t.name]()
  this.alert()
}

focus(e, t) {
  return (1
    'boolean' !== typeof t && (t = e.enabled),
    t && !e.enabled && this.selected.length >= this.maxSelected
      ? this.alert()
      : ((this.index = e.index),
        e.enabled = t && !this.isDisabled(e)),
        e)
  )
}

space() {
  return this.multiple
    ? (this.toggle(this.focused), this.render())
    : this.alert()
}
a() {
  if (this.maxSelected < this.choices.length) return this.alert()
  let e = this.selectable.every((e) => e.enabled)
  return this.choices.forEach((t) => (t.enabled = !e.enabled)), this.render()
}
i() {
  return this.choices.length - this.selected.length > this.maxSelected
    ? this.alert()
    : (this.choices.forEach((e) => (e.enabled = !e.enabled)),
        this.render())
}
g(e = this.focused) {
  return this.choices.some((e) => !e.parent)
    ? (this.toggle(e.parent && !e.choices ? e.parent : e),
        this.render())
    : this.a()
}
toggle(e, t) {
  if (!e.enabled && this.selected.length >= this.maxSelected)
    return this.alert()
  'boolean' !== typeof t && (t = !e.enabled),
    e.enabled = t,
    e.choices && e.choices.forEach((e) => this.toggle(e, t))
  let r = e.parent
  for (; r; ) {
    let e = r.choices.filter((e) => this.isDisabled(e))
    ;(r.enabled = e.every((e) => !0 === e.enabled)), (r = r.parent)
  }
return u(this, this.choices), this.emit('toggle', e, this), e
}

enable(e) {
    return this.selected.length >= this.maxSelected
        ? this.alert()
        : ((e.enabled = !this.isDisabled(e)),
            e.choices && e.choices.forEach(this.enable.bind(this)),
            e)
}

disable(e) {
    return (e.enabled = !1),
        e.choices && e.choices.forEach(this.disable.bind(this)),
        e
}

number(e) {
    this.num += e
    let t = (e) => {
        let t = Number(e)
        if (t > this.choices.length - 1) return this.alert()
        let r = this.focused,
            A = this.choices.find((e) => t === e.index)
        if (!A.enabled && this.selected.length >= this.maxSelected)
            return this.alert()
        if (-1 === this.visible.indexOf(A)) {
            let e = s(this.choices),
                t = e.indexOf(A)
            if (r.index > t) {
                let r = e.slice(t, t + this.limit),
                    A = e.filter((e) => !r.includes(e))
                this.choices = r.concat(A)
            } else {
                let r = t - this.limit + 1
                this.choices = e.slice(r).concat(e.slice(0, r))
            }
        }
        return (this.index = this.choices.indexOf(A)),
            this.toggle(this.focused),
            this.render()
    }
}

return (clearTimeout(this.numberTimeout),
    new Promise((e) => {
        let r = this.choices.length,
            A = this.num,
n = (r = !1, n) => {
clearTimeout(this.numberTimeout),
  r && (n = t(A)),
  (this.num = ""),
  e(n)
}
return '0' === A || (1 === A.length && Number(A + '0') > r)
  ? n(!0)
  : Number(A) > r
  ? n(!1, this.alert())
  : void (this.numberTimeout = setTimeout(
    () => n(!0),
    this.delay,
  ))
}
}
}

home() {
return (
  (this.choices = s(this.choices)), (this.index = 0), this.render()
)
}

end() {
let e = this.choices.length - this.limit,
  t = s(this.choices)
return (
  (this.choices = t.slice(e).concat(t.slice(0, e))),
  (this.index = this.limit - 1),
  this.render()
)
}

first() {
  return (this.index = 0), this.render()
}

last() {
  return (this.index = this.visible.length - 1), this.render()
}

prev() {
  return this.visible.length <= 1 ? this.alert() : this.up()
}

next() {
  return this.visible.length <= 1 ? this.alert() : this.down()
}

right() {
  return this.cursor >= this.input.length
    ? this.alert()
    : (this.cursor++, this.render())
}
left() {
    return this.cursor <= 0
        ? this.alert()
        : (this.cursor--, this.render())
}
up() {
    let e = this.choices.length,
        t = this.visible.length,
        r = this.index
    return !1 === this.options.scroll && 0 === r
        ? this.alert()
        : e > t && 0 === r
        ? this.scrollUp()
        : ((this.index = (r - (1 % e) + e) % e),
            this.isDisabled() ? this.up() : this.render())
}
down() {
    let e = this.choices.length,
        t = this.visible.length,
        r = this.index
    return !1 === this.options.scroll && r === t - 1
        ? this.alert()
        : e > t && r === t - 1
        ? this.scrollDown()
        : ((this.index = (r + 1) % e),
            this.isDisabled() ? this.down() : this.render())
}
scrollUp(e = 0) {
    return (this.choices = a(this.choices)),
            (this.index = e),
            this.isDisabled() ? this.up() : this.render()
}
scrollDown(e = this.visible.length - 1) {
    return (this.choices = c(this.choices)),
            (this.index = e),
            this.isDisabled() ? this.down() : this.render()
}
async shiftUp() {
    return !0 === this.options.sort
        ? ((this.sorting = !0),
            this.swap(this.index - 1),
            await this.up(),
            void (this.sorting = !1))
        : this.scrollUp(this.index)
async shiftDown() {
    return !0 === this.options.sort
        ? ((this.sorting = !0),
           this.swap(this.index + 1),
           await this.down(),
           void (this.sorting = !1))
        : this.scrollDown(this.index)
}

pageUp() {
    return this.visible.length <= 1
        ? this.alert()
        : ((this.limit = Math.max(this.limit - 1, 0)),
           (this.index = Math.min(this.limit - 1, this.index)),
           (this._limit = this.limit),
           this.isDisabled() ? this.up() : this.render())
}

pageDown() {
    return this.visible.length >= this.choices.length
        ? this.alert()
        : ((this.index = Math.max(0, this.index)),
           (this.limit = Math.min(this.limit + 1, this.choices.length)),
           (this._limit = this.limit),
           this.isDisabled() ? this.down() : this.render())
}

swap(e) {
    l(this.choices, this.index, e)
}

isDisabled(e = this.focused) {
    return (!
        ![ 'disabled',
        'collapsed',
        'hidden',
        'completing',
        'readonly',
        ].some((t) => !0 === e[t])
    ) ||
    (e && 'heading' === e.role)
}

isEnabled(e = this.focused) {
    if (Array.isArray(e)) return e.every((e) => this.isEnabled(e))
    if (e.choices) {
        let t = e.choices.filter((e) => !this.isDisabled(e))
        return e.enabled && t.every((e) => this.isEnabled(e))
return e.enabled && !this.isDisabled(e)
}

isChoice(e, t) {
  return e.name === t || e.index === Number(t)
}

isSelected(e) {
  return Array.isArray(this.initial)
  ? this.initial.some((t) => this.isChoice(e, t))
  : this.isChoice(e, this.initial)
}

map(e = [], t = 'value') {
  return []
    .concat(e || [])
    .reduce((e, r) => ((e[r] = this.find(r, t)), e), {})
}

filter(e, t) {
  let r =
    'function' === typeof e ? e : (t, r) => [t.name, r].includes(e),
  A = (this.options.multiple
    ? this.state._choices
    : this.choices
  ).filter(r)
  return t ? A.map((e) => e[t]) : A
}

find(e, t) {
  if (g(e)) return t ? e[t] : e
  let r =
    'function' === typeof e ? e : (t, r) => [t.name, r].includes(e),
  A = this.choices.find(r)
  return A ? (t ? A[t] : A) : void 0
}

findIndex(e) {
  return this.choices.indexOf(this.find(e))
}

async submit() {
  let e = this.focused
  if (!e) return this.alert()
  if (e.newChoice)
    return e.input ? (e.updateChoice(), this.render()) : this.alert()
  if (this.choices.some((e) => e.newChoice)) return this.alert()
  let { reorder: t, sort: r } = this.options,
  A = !0 === this.multiple,
  n = this.selected
  return void 0 === n
    ? this.alert()
    : (Array.isArray(n) && !1 !== t && !0 !== r && (n = i.reorder(n)),
      (this.value = A ? n.map((e) => e.name) : n.name),
    )
super.submit())
}
set choices(e = []) {
:(this.state._choices = this.state._choices || []),
(this.state.choices = e)
for (let t of e)
this.state._choices.some((e) => e.name === t.name) ||
this.state._choices.push(t)
if (!this._initial && this.options.initial) {
this._initial = !0
let e = this._initial
if ('string' == typeof e || 'number' == typeof e) {
let t = this.find(e)
t && ((this.initial = t.index), this.focus(t, !0))
}
}
get choices() {
return u(this, this.state.choices || [])
}
set visible(e) {
this.state.visible = e
}
get visible() {
return (this.state.visible || this.choices).slice(0, this.limit)
}
set limit(e) {
this.state.limit = e
}
get limit() {
let { state: e, options: t, choices: r } = this,
A = e.limit || this._limit || t.limit || r.length
return Math.min(A, this.height)
}
set value(e) {
super.value = e
}
get value() {
return 'string' != typeof super.value &&
super.value === this.initial
? this.input
: super.value
}
set index(e) {
this.state.index = e
}
get index() {
return Math.max(0, this.state ? this.state.index : 0)
get enabled() {
    return this.filter(this.isEnabled.bind(this));
}

get focused() {
    let e = this.choices[this.index]
    return (e &&
        this.state.submitted &&
        !0 !== this.multiple &&
        (e.enabled = !0),
        e)
}

get selectable() {
    return this.choices.filter((e) => !this.isDisabled(e))
}

get selected() {
    return this.multiple ? this.enabled : this.focused
}

};

46614: (e, t, r) => {
    'use strict'
    const A = r(71447),
    n = () => {
        throw new Error(
            'expected prompt to have a custom authenticate method',
        )
    },
    o = (e = n) =>
    class extends A {
        constructor(e) {
            super(e)
        }
        async submit() {
            ;(this.value = await e.call(this, this.values, this.state)),
            super.base.submit.call(this)
        }
        static create(e) {
            return o(e)
        }
    }
    e.exports = o()
},
82710: (e, t, r) => {
    'use strict'
    const A = r(58386),

{ isPrimitive: n, hasColor: o } = r(10278)
e.exports = class extends A {
constructor(e) {
super(e), this.cursorHide()
}
async initialize() {
let e = await this.resolve(this.initial, this.state)
;(this.input = await this.cast(e)), await super.initialize()
}
dispatch(e) {
return this.isValue(e)
? ((this.input = e), this.submit())
: this.alert()
}
format(e) {
let { styles: t, state: r } = this
return r.submitted ? t.success(e) : t.primary(e)
}
cast(e) {
return this.isTrue(e)
}
isTrue(e) {
return /^[ty1]/i.test(e)
}
isFalse(e) {
return /^[fn0]/i.test(e)
}
isValue(e) {
return n(e) && (this.isTrue(e) || this.isFalse(e))
}
async hint() {
if ('pending' === this.state.status) {
let e = await this.element('hint')
return o(e) ? e : this.styles.muted(e)
}
}
async render() {
let { input: e, size: t } = this.state,
r = await this.prefix(),
A = await this.separator(),
n = [r, await this.message(), this.styles.muted(this.default), A]
.filter(Boolean)
.join(' ')
this.state.prompt = n
let o = await this.header(),
i = (this.value = this.cast(e)),
s = await this.format(i),
a = (await this.error()) || (await this.hint()),

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c = await this.footer()
a && !n.includes(a) && (s += ' ' + a),
(n += ' ' + s),
this.clear(),
this.write([o, n, c].filter(Boolean).join('n')),
this.restore()
}
set value(e) {
  super.value = e
}
get value() {
  return this.cast(super.value)
}
}

13235: (e, t, r) => {
e.exports = {
  ArrayPrompt: r(14723),
  AuthPrompt: r(46614),
  BooleanPrompt: r(82710),
  NumberPrompt: r(64987),
  StringPrompt: r(45853),
}
},
64987: (e, t, r) => {
  'use strict'
  const A = r(45853)
e.exports = class extends A {
    constructor(e = {}) {
      super({ style: 'number', ...e } ),
      (this.min = this.isValue(e.min) ? this.toNumber(e.min) : -1 / 0),
      (this.max = this.isValue(e.max) ? this.toNumber(e.max) : 1 / 0),
      (this.delay = null != e.delay ? e.delay : 1e3),
      (this.float = !1 !== e.float),
      (this.round = !0 === e.round || !1 === e.float),
      (this.major = e.major || 10),
      (this.minor = e.minor || 1),
      (this.initial = null != e.initial ? e.initial : ''),
      (this.input = String(this.initial)),
      (this.cursor = this.input.length),
      this.cursorShow()
    }
    append(e) {
      return !/[+-].*/.test(e) || ('.' === e && this.input.includes('.')) ? this.alert('invalid number') : super.append(e)
    }
    number(e) {
```javascript
return super.append(e)
}
next() {
    return this.input && this.input !== this.initial
? this.alert()
    : this.isValue(this.initial)
? ((this.input = this.initial),
    (this.cursor = String(this.initial).length),
    this.render())
    : this.alert()
}
up(e) {
    let t = e || this.minor,
    r = this.toNumber(this.input)
return r > this.max + t
? this.alert()
    : ((this.input = " + (r + t)), this.render())
}
down(e) {
    let t = e || this.minor,
    r = this.toNumber(this.input)
return r < this.min - t
? this.alert()
    : ((this.input = " + (r - t)), this.render())
}
shiftDown() {
    return this.down(this.major)
}
shiftUp() {
    return this.up(this.major)
}
format(e = this.input) {
    return 'function' == typeof this.options.format
? this.options.format.call(this, e)
    : this.styles.info(e)
}
toNumber(e = '') {
    return this.float ? +e : Math.round(+e)
}
isValue(e) {
    return /^(\[-+]?[0-9]+((\.)|\.[0-9]+))$/S/.test(e)
}
submit() {
    let e = [this.input, this.initial].find((e) => this.isValue(e))
return (this.value = this.toNumber(e || 0)), super.submit()
}
}
```

'use strict'
const A = r(58386),
n = r(96496),
{ isPrimitive: o } = r(10278)
e.exports = class extends A {
constructor(e) {
super(e),
(this.initial = o(this.initial) ? String(this.initial) : ''),
this.initial && this.cursorHide(),
(this.state.prevCursor = 0),
(this.state.clipboard = [])
}
async keypress(e, t = {}) {
let r = this.state.prevKeypress
return (
  (this.state.prevKeypress = t),
  !0 !== this.options.multiline ||
  'return' !== t.name ||
  (r && 'return' === r.name)
  ? super.keypress(e, t)
    : this.append('
', t)
}
moveCursor(e) {
  this.cursor += e
}
reset() {
  return (
    (this.input = this.value = ''), (this.cursor = 0), this.render()
  )
}
dispatch(e, t) {
  if (!e || t.ctrl || t.code) return this.alert()
  this.append(e)
}
append(e) {
  let { cursor: t, input: r } = this.state
  ;(this.input = ('' + r).slice(0, t) + e + ('' + r).slice(t)),
  this.moveCursor(String(e).length),
  this.render()
}
insert(e) {
  this.append(e)
}
delete() {
  let { cursor: e, input: t } = this.state
  if (e <= 0) return this.alert()
if (!e || !e.startsWith(this.input)) return this.alert()
:(this.input = this.initial),
  (this.cursor = this.initial.length),
  this.render()
}
prev() {
  if (!this.input) return this.alert()
  this.reset()
}
backward() {
  return this.left()
}
forward() {
  return this.right()
}
right() {
  return this.cursor >= this.input.length
? this.alert()
: (this.moveCursor(1), this.render())
}
left() {
  return this.cursor <= 0
? this.alert()
: (this.moveCursor(-1), this.render())
}
isValue(e) {
  return !!e
}
async format(e = this.value) {
  let t = await this.resolve(this.initial, this.state)
  return this.state.submitted
? this.styles.submitted(e || t)
: n(this, { input: e, initial: t, pos: this.cursor })
}
async render() {
  let e = this.state.size,
  t = await this.prefix(),
  r = await this.separator(),
  A = [t, await this.message(), r].filter(Boolean).join(' ')
  this.state.prompt = A
  let n = await this.header(),
  o = await this.format(),
  i = (await this.error()) || (await this.hint()),
  s = await this.footer()
  i && !o.includes(i) && (o += ' ' + i),
  (A += ' ' + o),
  this.clear(e),
  this.write([n, A, s].filter(Boolean).join('
')),
this.restore()
}
})
},
10278: (e, t, r) => {
'use strict'
const A = Object.prototype.toString,
n = r(97991)
let o = !1,
i = []
const s = {
yellow: 'blue',
cyan: 'red',
green: 'magenta',
black: 'white',
blue: 'yellow',
red: 'cyan',
magenta: 'green',
white: 'black'
}
:(t.longest = (e, t) =>
  e.reduce((e, r) => Math.max(e, t ? r[t].length : r.length), 0)),
(t.hasColor = (e) => !!e && n.hasColor(e))
const a = (t.isObject = (e) =>
  null !== e && 'object' == typeof e && !Array.isArray(e))
:(t.nativeType = (e) =>
  A.call(e).slice(8, -1).toLowerCase().replace(/\s/g, ''),
  (t.isAsyncFn = (e) => 'asyncfunction' === t.nativeType(e)),
  (t.isPrimitive = (e) =>
    null != e && 'object' != typeof e && 'function' != typeof e),
  (t.resolve = (e, t, ...r) =>
    'function' == typeof t ? t.call(e, ...r) : t),
  (t.scrollDown = (e = []) => [...e.slice(1), e[0]]),
  (t.scrollUp = (e = []) => [e.pop(), ...e]),
  (t.reorder = (e = []) => {
    let t = e.slice()
    return (t.sort((e, t) =>
      e.index > t.index ? 1 : e.index < t.index ? -1 : 0,
    ),
    t)
  })),
(t.swap = (e, t, r) => {
  let A = e.length,
n = r === A ? 0 : r < 0 ? A - 1 : r,
o = e[t]
  :(e[t] = e[n]), (e[n] = o)
}
if (r) {
    let A = n['bg' + t.pascal(r)]
    return A ? A.black : e
}

let A = e.stack.find((e) => 'bg' === e.slice(0, 2))
return A ? n[A.slice(2).toLowerCase()] || e : n.none
)

(t.complement = (e) => {
  if (!e || 'e.stack') return e
  let r = e.stack.find((e) => n.keys.color.includes(e)),
      A = e.stack.find((e) => 'bg' === e.slice(0, 2)),
  if (r || !A) return n[s[r] || r]
  if (A) {
    let r = A.slice(2).toLowerCase(),
        o = s[r]
    return (o && n['bg' + t.pascal(o)]) || e
  }
  return n.none
}),

(t.complement = (e) => {
  if (!e || !e.stack) return e
  let r = e.stack.find((e) => n.keys.color.includes(e)),
      A = e.stack.find((e) => 'bg' === e.slice(0, 2))
  if (r && !A) return n[s[r] || r]
  if (A) {
    let r = A.slice(2).toLowerCase(),
        o = s[r]
    return (o && n['bg' + t.pascal(o)]) || e
  }
  return n.none
}),

(t.complement = (e) => {
  if (!e || 'e.stack') return e
  let r = e.stack.find((e) => n.keys.color.includes(e)),
      A = e.stack.find((e) => 'bg' === e.slice(0, 2))
  if (r || !A) return n[s[r] || r]
  if (A) {
    let r = A.slice(2).toLowerCase(),
        o = s[r]
    return (o && n['bg' + t.pascal(o)]) || e
  }
  return n.none
}),

(t.meridiem = (e) => {
  let t = e.getHours(),
      r = e.getMinutes(),
      A = t >= 12 ? 'pm' : 'am'
  return (t %= 12),
      (0 === t ? 12 : t) + ':' + (r < 10 ? '0' + r : r) + ' ' + A
}),

(t.set = (e = {}, r = '', A) =>
  r.split('.').reduce((e, r, n, o) => {
    let i = o.length - 1 > n ? e[r] || {} : A
    return !t.isObject(i) && n < o.length - 1 && (i = {}), (e[r] = i)
  }, e)),

(t.get = (e = {}, t = '', r) => {
  let A =
  null == e[t] ? t.split('.').reduce((e, t) => e && e[t], e) : e[t]
  return null == A ? r : A
}),

(t.meridiem = (e) => {
  let t = e.getHours(),
      r = e.getMinutes(),
      A = t >= 12 ? 'pm' : 'am'
  return (t %= 12),
      (0 === t ? 12 : t) + ':' + (r < 10 ? '0' + r : r) + ' ' + A
}),

(t.set = (e = {}, r = '', A) =>
  r.split('.').reduce((e, r, n, o) => {
    let i = o.length - 1 > n ? e[r] || {} : A
    return !t.isObject(i) && n < o.length - 1 && (i = {}), (e[r] = i)
  }, e)),

(t.get = (e = {}, t = '', r) => {
  let A =
  null == e[t] ? t.split('.').reduce((e, t) => e && e[t], e) : e[t]
  return null == A ? r : A
}),

(t.mixin = (e, r) => {
  if (!a(e)) return r
  if (!a(r)) return e
  for (let A of Object.keys(r)) {
    let n = Object.getOwnPropertyDescriptor(r, A)
    if (n.hasOwnProperty('value'))
      if (e.hasOwnProperty(A) && a(n.value)) {
        let o = Object.getOwnPropertyDescriptor(e, A)
        a(o.value)
        ? (e[A] = t.merge({}, e[A], r[A]))
      } else { /* other cases */ }
  }
})
Reflect.defineProperty(e, A, n)
)
)
:t.merge = (...e) => {
  let r = {}
  for (let A of e) t.mixin(r, A)
  return r
}),
:t.mixinEmitter = (e, r) => {
  let A = r.constructor.prototype
  for (let n of Object.keys(A)) {
    let o = A[n]
    'function' == typeof o
      ? t.define(e, n, o.bind(r))
      : t.define(e, n, o)
  }
}),
:t.onExit = (e) => {
  const t = (e, t) => {
    o ||
      ((o = !0),
       i.forEach((e) => e()),
        !0 === e && process.exit(128 + t))
   }
    0 === i.length &&
       (process.once('SIGTERM', t.bind(null, !0, 15)),
        process.once('SIGINT', t.bind(null, !0, 2)),
        process.once('exit', t)),
     i.push(e)
   ),
:t.define = (e, t, r) => {
    Reflect.defineProperty(e, t, { value: r })
   },
:t.defineExport = (e, t, r) => {
    let A
    Reflect.defineProperty(e, t, {
      enumerable: !0,
      configurable: !0,
      set(e) {
        A = e
      },
      get: () => (A ? A() : r))
   };
  }
})
async function c(e, t) {
    l(e)
    const r = g(e, n.default, t),
    A = await Promise.all(r)
    return a.array.flatten(A)
}

function g(e, t, r) {
    const n = [].concat(e),
    o = new s.default(r),
    i = A.generate(n, o),
    a = new t(o)
    return i.map(a.read, a)
}

function l(e) {
    if (e?.
        .concat(e)
        .every((e) => a.string.isString(e) && !a.string.isEmpty(e))
    )
    throw new TypeError(
        'Patterns must be a string (non empty) or an array of strings',
    )
}

!(function (e) {
    e.sync = function (e, t) {
        l(e)
        const r = g(e, i.default, t)
        return a.array.flatten(r)
    },
    e.stream = function (e, t) {
        l(e)
        const r = g(e, o.default, t)
        return a.stream.merge(r)
    },
    e.generateTasks = function (e, t) {
        l(e)
        const r = [].concat(e),
        n = new s.default(t)
        return A.generate(r, n)
    })
}());
(e.isDynamicPattern = function (e, t) {
  l(e)
  const r = new s.default(t)
  return a.pattern.isDynamicPattern(e, r)
}),
(e.escapePath = function (e) {
  return l(e), a.path.escape(e)
})
})(c || (c = {})),
(e.exports = c)
},
80598: (e, t, r) => {
  'use strict'
  Object.defineProperty(t, '__esModule', { value: !0 })
  const A = r(16777)
  function n(e, t, r) {
    const A = s(e)
    if ('.' in A) {
      return [c('.', e, t, r)]
    }
    return a(A, t, r)
  }
  function o(e) {
    return A.pattern.getPositivePatterns(e)
  }
  function i(e, t) {
    return A.pattern
      .getNegativePatterns(e)
      .concat(t)
      .map(A.pattern.convertToPositivePattern)
  }
  function s(e) {
    return e.reduce((e, t) => {
      const r = A.pattern.getBaseDirectory(t)
      return r in e ? e[r].push(t) : (e[r] = [t]), e
    }, {})
  }
  function a(e, t, r) {
    return Object.keys(e).map((A) => c(A, e[A], t, r))
  }
  function c(e, t, r, n) {
    return {
      dynamic: n,
      positive: t,
      negative: r,
      base: e,
      patterns: [].concat(t, r.map(A.pattern.convertToNegativePattern)),
    }
  }
const r = o(e),
    s = if(e, t.ignore),
    a = r.filter(e => A.pattern.isStaticPattern(e, t)),
    c = r.filter(e => A.pattern.isDynamicPattern(e, t)),
    g = n(a, s, !1),
    l = n(c, s, !0)
return g.concat(l)
},
(t.convertPatternsToTasks = n),
(t.getPositivePatterns = o),
(t.getNegativePatternsAsPositive = i),
(t.groupPatternsByBaseDirectory = s),
(t.convertPatternGroupsToTasks = a),
(t.convertPatternGroupToTask = c)
},
58182: (e, t, r) => {
'use strict'
Object.defineProperty(t, '__esModule', { value: !0 })
const A = r(82774),
    n = r(40545)
class o extends n.default {
    constructor() {
        super(...arguments), (this._reader = new A.default(this._settings))
    }
    read(e) {
        const t = this._getRootDirectory(e),
            r = this._getReaderOptions(e),
            A = []
        return new Promise((n, o) => {
            const i = this.api(t, e, r)
            i.once('error', o),
            i.on('data', (e) => A.push(r.transform(e))),
            i.once('end', () => n(A))
        })
    }
    api(e, t, r) {
        return t.dynamic
            ? this._reader.dynamic(e, r)
            : this._reader.static(t.patterns, r)
    }
} t.default = o
},
65989: (e, t, r) => {
'use strict'
Object.defineProperty(t, '__esModule', { value: !0 })
}
const A = r(16777),
n = r(42585)
t.default = class {
  constructor(e, t) {
    (this._settings = e), (this._micromatchOptions = t)
  }
  getFilter(e, t, r) {
    const A = this._getMatcher(t),
    n = this._getNegativePatternsRe(r)
    return (t) => this._filter(e, t, A, n)
  }
  _getMatcher(e) {
    return new n.default(e, this._settings, this._micromatchOptions)
  }
  _getNegativePatternsRe(e) {
    const t = e.filter(A.pattern.isAffectDepthOfReadingPattern)
    return A.pattern.convertPatternsToRe(t, this._micromatchOptions)
  }
  _filter(e, t, r, n) {
    const o = this._getEntryLevel(e, t.path)
    if (this._isSkippedByDeep(o)) return !1
    if (this._isSkippedSymbolicLink(t)) return !1
    const i = A.path.removeLeadingDotSegment(t.path)
    return (  
      !this._isSkippedByPositivePatterns(i, r) &&
      this._isSkippedByNegativePatterns(i, n)
    )
  }
  _isSkippedByDeep(e) {
    return e >= this._settings.deep
  }
  _isSkippedSymbolicLink(e) {
    return (  
      !this._settings.followSymbolicLinks && !e.dirent.isSymbolicLink()
    )
  }
  _getEntryLevel(e, t) {
    const r = e.split('/').length
    return t.split('/').length - ('' === e ? 0 : r)
  }
  _isSkippedByPositivePatterns(e, t) {
    return !this._settings.baseNameMatch && !t.match(e)
  }
  _isSkippedByNegativePatterns(e, t) {
    return !A.pattern.matchAny(e, t)
  }
};
37338: (e, t, r) => {
  'use strict'
  Object.defineProperty(t, '_esModule', { value: !0 })
  const A = r(16777)
  t.default = class {
    constructor(e, t) {
      (this._settings = e),
      (this._micromatchOptions = t),
      (this.index = new Map())
    }
    getFilter(e, t) {
      const r = A.pattern.convertPatternsToRe(e, this._micromatchOptions),
      n = A.pattern.convertPatternsToRe(t, this._micromatchOptions)
      return (e) => this._filter(e, r, n)
    }
    _filter(e, t, r) {
      if (this._settings.unique) {
        if (this._isDuplicateEntry(e)) return !1
        this._createIndexRecord(e)
      }
      if (this._onlyFileFilter(e) || this._onlyDirectoryFilter(e)) return !1
      if (this._isSkippedByAbsoluteNegativePatterns(e, r)) return !1
      const A = this._settings.baseNameMatch ? e.name : e.path
      return (this._isMatchToPatterns(A, t) && !this._isMatchToPatterns(e.path, r))
    }
    _isDuplicateEntry(e) {
      return this.index.has(e.path)
    }
    _createIndexRecord(e) {
      this.index.set(e.path, void 0)
    }
    _onlyFileFilter(e) {
      return this._settings.onlyFiles && !e.dirent.isFile()
    }
    _onlyDirectoryFilter(e) {
      return this._settings.onlyDirectories && !e.dirent.isDirectory()
    }
    _isSkippedByAbsoluteNegativePatterns(e, t) {
      if (!this._settings.absolute) return !1
      const r = A.path.makeAbsolute(this._settings.cwd, e.path)
      return this._isMatchToPatterns(r, t)
    }
    _isMatchToPatterns(e, t) {
      const r = A.path.removeLeadingDotSegment(e)
return A.pattern.matchAny(r, t)
}
}
},
54345: (e, t, r) => {
'use strict'
Object.defineProperty(t, '__esModule', { value: !0 })
const A = r(16777)
t.default = class {
constructor(e) {
    this._settings = e
}
getFilter() {
    return (e) => this._isNonFatalError(e)
}
_isNonFatalError(e) {
    return A.errno.isEnoentCodeError(e) || this._settings.suppressErrors
}
}
},
34789: (e, t, r) => {
'use strict'
Object.defineProperty(t, '__esModule', { value: !0 })
const A = r(16777)
t.default = class {
constructor(e, t, r) {
    (this._patterns = e),
    (this._settings = t),
    (this._micromatchOptions = r),
    (this._storage = []),
    this._fillStorage()
}
_fillStorage() {
    const e = A.pattern.expandPatternsWithBraceExpansion(this._patterns)
    for (const t of e) {
        const e = this._getPatternSegments(t),
            r = this._splitSegmentsIntoSections(e)
        this._storage.push({
            complete: r.length <= 1,
            pattern: t,
            segments: e,
            sections: r,
        })
    }
    _getPatternSegments(e) {
        return A.pattern
            .getPatternParts(e, this._micromatchOptions)
A.map((e) =>
A.pattern.isDynamicPattern(e, this._settings)
? {
  dynamic: !0,
  pattern: e,
  patternRe: A.pattern.makeRe(e, this._micromatchOptions),
}:
  { dynamic: !1, pattern: e },
)

_splitSegmentsIntoSections(e) {
  return A.array.splitWhen(
    e,
    (e) => e.dynamic && A.pattern.hasGlobStar(e.pattern),
  )
}

use strict

Object.defineProperty(t, '__esModule', { value: !0 })

const A = r(34789)

class n extends A.default {
  _match(e) {
    const t = e.split(/\/),
      r = t.length,
      A = this._storage.filter(
        (e) => !e.complete || e.segments.length > r,
      )
    for (const e of A) {
      const A = e.sections[0]
      if (!e.complete && r > A.length) return !0
      if (t.every((t, r) => {
        const A = e.segments[r]
        return (!A.dynamic || !A.patternRe.test(t)) ||
          (!A.dynamic && A.pattern === t)
      }))
      return !0
    }
    return !1
  }
}

t.default = n


40545: (e, t, r) => {
  'use strict'
  Object.defineProperty(t, '__esModule', { value: !0 })
  const A = r(85622),
      n = r(65989),
      o = r(37338),
      i = r(54345),
      s = r(77541)
  t.default = class {
    constructor(e) {
      (this._settings = e),
      (this.errorFilter = new i.default(this._settings)),
      (this.entryFilter = new o.default(
        this._settings,
        this._getMicromatchOptions(),
      )),
      (this.deepFilter = new n.default(
        this._settings,
        this._getMicromatchOptions(),
      )),
      (this.entryTransformer = new s.default(this._settings))
    }
    _getRootDirectory(e) {
      return A.resolve(this._settings.cwd, e.base)
    }
    _getReaderOptions(e) {
      const t = '.' === e.base ? '' : e.base
      return {
        basePath: t,
        pathSegmentSeparator: '/',
        concurrency: this._settings.concurrency,
        deepFilter: this.deepFilter.getFilter(t, e.positive, e.negative),
        entryFilter: this.entryFilter.getFilter(e.positive, e.negative),
        errorFilter: this.errorFilter.getFilter(),
        followSymbolicLinks: this._settings.followSymbolicLinks,
        fs: this._settings.fs,
        stats: this._settings.stats,
        throwErrorOnBrokenSymbolicLink: this._settings
          .throwErrorOnBrokenSymbolicLink,
        transform: this.entryTransformer.getTransformer(),
      }
    }
    _getMicromatchOptions() {
      return {
        dot: this._settings.dot,
        matchBase: this._settings.baseNameMatch,
        nobrace: !this._settings.braceExpansion,
        nocase: !this._settings.caseSensitiveMatch,
noext: !this._settings.extglob,
noglobstar: 'this._settings.globstar,
posix: !0,
strictSlashes: !1,
}
}
}
67652: (e, t, r) => {

'use strict'
Object.defineProperty(t, '__esModule', { value: !0 })
const A = r(92413),
n = r(82774),
o = r(40545)
class i extends o.default {
constructor() {
  super(...arguments), (this._reader = new n.default(this._settings))
}
read(e) {
  const t = this._getRootDirectory(e),
    r = this._getReaderOptions(e),
    n = this.api(t, e, r),
    o = new A.Readable({ objectMode: !0, read: () => { } })
  return (n
    .once('error', (e) => o.emit('error', e))
    .on('data', (e) => o.emit('data', r.transform(e)))
    .once('end', () => o.emit('end')),
    o.once('close', () => n.destroy())
  )
}
api(e, t, r) {
  return t.dynamic
    ? this._reader.dynamic(e, r)
    : this._reader.static(t.patterns, r)
}
}
t.default = i
}
81340: (e, t, r) => {

'use strict'
Object.defineProperty(t, '__esModule', { value: !0 })
const A = r(29543),
n = r(40543)
class o extends n.default {
constructor() {
  super(...arguments), (this._reader = new A.default(this._settings))
}
```javascript
read(e) {
    const t = this._getRootDirectory(e),
        r = this._getReaderOptions(e)
    return this.api(t, e, r).map(r.transform)
}

api(e, t, r) {
    return t.dynamic
        ? this._reader.dynamic(e, r)
        : this._reader.static(t.patterns, r)
}

t.default = o

77541: (e, t, r) => {
    'use strict'
    Object.defineProperty(t, '_esModule', { value: !0 })
    const A = r(16777)
    t.default = class {
        constructor(e) {
            this._settings = e
        }
        getTransformer() {
            return (e) => this._transform(e)
        }
        _transform(e) {
            let t = e.path
            return (this._settings.absolute &&
                ((t = A.path.makeAbsolute(this._settings.cwd, t)),
                (t = A.path.unixify(t))),
                this._settings.markDirectories &&
                e.dirent.isDirectory() &&
                (t += '/'),
                this._settings.objectMode
                ? Object.assign(Object.assign({}, e), { path: t })
                : t
            )
        }
    }
},
99458: (e, t, r) => {
    'use strict'
    Object.defineProperty(t, '_esModule', { value: !0 })
    const A = r(85622),
        n = r(53403),
        o = r(16777)
    t.default = class {
```
```javascript
constructor(e) {
    (this._settings = e),
    (this._fsStatSettings = new n.Settings{
        followSymbolicLink: this._settings.followSymbolicLinks,
        fs: this._settings.fs,
        throwErrorOnBrokenSymbolicLink: this._settings
            .followSymbolicLinks,
    })
}
_getFullEntryPath(e) {
    return A.resolve(this._settings.cwd, e)
}
_makeEntry(e, t) {
    const r = {
        name: t,
        path: t,
        dirent: o.fs.createDirentFromStats(t, e),
    }
    return this._settings.stats && (r.stats = e), r
}
_isFatalError(e) {
    return (
        !o.errno.isEnoentCodeError(e) && !this._settings.suppressErrors
    )
}
);
82774: (e, t, r) => {
    'use strict'
    Object.defineProperty(t, '_esModule', { value: !0 })
    const A = r(92413),
    n = r(53403),
    o = r(72897),
    i = r(99458)
    class s extends i.default {
        constructor() {
            super(...arguments),
            (this._walkStream = o.walkStream),
            (this._stat = n.stat)
        }
        dynamic(e, t) {
            return this._walkStream(e, t)
        }
        static(e, t) {
            const r = e.map(this._getFullEntryPath, this),
            n = new A.PassThrough({ objectMode: !0 })
            n._write = (A, o, i) =>
                this._getEntry(r[A], e[A], t)
```
for (let e = 0; e < r.length; e++) n.write(e)
return n
}

_getEntry(e, t, r) {
  return this._getStat(e)
  .then((e) => this._makeEntry(e, t))
  .catch((e) => {
    if (r.errorFilter(e)) return null
    throw e
  })
}

_getStat(e) {
  return new Promise((t, r) => {
    this._stat(e, this._fsStatSettings, (e, A) =>
      null === e ? t(A) : r(e),
    )
  })
}

t.default = s
},

29543: (e, t, r) => {
  'use strict'
  Object.defineProperty(t, '__esModule', { value: !0 })
  const A = r(53403),
  n = r(72897),
  o = r(99458)
  class i extends o.default {
    constructor() {
      super(...arguments),
      (this._walkSync = n.walkSync),
      (this._statSync = A.statSync)
    }
    dynamic(e, t) {
      return this._walkSync(e, t)
    }
  }
  static(e, t) {
    const r = []
    for (const A of e) {
      const e = this._getFullEntryPath(A),
      n = this._getEntry(e, A, t)
      null !== n && t.entryFilter(n) && r.push(n)
try {
    const r = this._getStat(e)
    return this._makeEntry(r, t)
} catch (e) {
    if (r.errorFilter(e)) return null
    throw e
}

_getStat(e) {
    return this._statSync(e, this._fsStatSettings)
}

const r = this._getStat(e)
return this._makeEntry(r, t)
} catch (e) {
    if (r.errorFilter(e)) return null
    throw e
}

_getStat(e) {
    return this._statSync(e, this._fsStatSettings)
}

t.default = i,

43754: (e, t, r) => {
'use strict'
Object.defineProperty(t, '__esModule', { value: !0 })
const A = r(35747),
n = r(12087).cpus().length
t.DEFAULT_FILE_SYSTEM_ADAPTER = {
  lstat: A.lstat,
  lstatSync: A.lstatSync,
  stat: A.stat,
  statSync: A.statSync,
  readdir: A.readdir,
  readdirSync: A.readdirSync,
}

t.default = class {
  constructor(e = {}) {
    ;(this._options = e),
    (this.absolute = this._getValue(this._options.absolute, !1)),
    (this.baseNameMatch = this._getValue(
      this._options.baseNameMatch,
      !1,
    ),
    (this.braceExpansion = this._getValue(
      this._options.braceExpansion,
      !0,
    ),
    (this.caseSensitiveMatch = this._getValue(
      this._options.caseSensitiveMatch,
      !0,
    ),
    (this.concurrency = this._getValue(this._options.concurrency, n)),
  )
}
(this.cwd = this._getValue(this._options.cwd, process.cwd())),
(this.deep = this._getValue(this._options.deep, 1 / 0)),
(this.dot = this._getValue(this._options.dot, !1)),
(this.extglob = this._getValue(this._options.extglob, !0)),
(this.followSymbolicLinks = this._getValue(
    this._options.followSymbolicLinks,
    !0,
)),
(this.fs = this._getFileSystemMethods(this._options.fs)),
(this.globstar = this._getValue(this._options.globstar, !0)),
(this.ignore = this._getValue(this._options.ignore, [])),
(this.markDirectories = this._getValue(
    this._options.markDirectories,
    !1,
)),
(this.objectMode = this._getValue(this._options.objectMode, !1)),
(this.onlyDirectories = this._getValue(
    this._options.onlyDirectories,
    !1,
)),
(this.onlyFiles = this._getValue(this._options.onlyFiles, !0)),
(this.stats = this._getValue(this._options.stats, !1)),
(this.suppressErrors = this._getValue(
    this._options.suppressErrors,
    !1,
)),
(this.throwErrorOnBrokenSymbolicLink = this._getValue(
    this._options.throwErrorOnBrokenSymbolicLink,
    !1,
)),
(this.unique = this._getValue(this._options.unique, !0)),
this.onlyDirectories && (this.onlyFiles = !1),
this.stats && (this.objectMode = !0)
}
_getValue(e, t) {
  return void 0 === e ? t : e
}
_getFileSystemMethods(e = {}) {
  return Object.assign(
    Object.assign({}, t.DEFAULT_FILESYSTEM_ADAPTER),
    e,
  )
}

60919: (e, t) => {
'use strict'
Object.defineProperty(t, '__esModule', { value: !0 });
t.flatten = function (e) {
  return e.reduce((e, t) => [...].concat(e, t), [])
},

t.splitWhen = function (e, t) {
  const r = [[]]
  let A = 0
  for (const n of e) t(n) ? (A++, (r[A] = [])) : r[A].push(n)
  return r
},

35525: (e, t) => {
  'use strict'
  Object.defineProperty(t, '__esModule', { value: !0 }),(t.isEnoentCodeError = function (e) {
    return 'ENOENT' === e.code
  })
},

62524: (e, t) => {
  'use strict'
  Object.defineProperty(t, '__esModule', { value: !0 })
  class r {
    constructor(e, t) {
      this.name = e,
      (this.isBlockDevice = t.isBlockDevice.bind(t)),
      (this.isDirectory = t.isDirectory.bind(t)),
      (this.isFile = t.isFile.bind(t)),
      (this.isSymbolicLink = t.isSymbolicLink.bind(t))
    }
  }
  t.createDirentFromStats = function (e, t) {
    return new r(e, t)
  }
},

16777: (e, t, r) => {
  'use strict'
  Object.defineProperty(t, '__esModule', { value: !0 })
  const A = r(60919)
  t.array = A
  const n = r(35525)
  t.errno = n
  const o = r(62524)
  t.fs = o
  const i = r(71462)
  t.path = i
  const s = r(14659)
t.pattern = s
const a = r(2042)
t.stream = a
const c = r(10217)
t.string = c
}
71462: (e, t, r) => {
  'use strict'
Object.defineProperty(t, '_esModule', { value: !0 })
const A = r(85622),
n = /(?!)(([^!]*[^!]*)!|[^!*+@]@)==()$/g
;t.unixify = function (e) {
  return e.replace(/\g/, \')
}),
(t.makeAbsolute = function (e, t) {
  return A.resolve(e, t)
}),
(t.escape = function (e) {
  return e.replace(n, '\$2')
}),
(t.removeLeadingDotSegment = function (e) {
  if ('.' === e.charAt(0)) {
    const t = e.charAt(1)
    if ('/' === t || '\' === t) return e.slice(2)
  }
  return e
}),
14659: (e, t, r) => {
  'use strict'
Object.defineProperty(t, '__esModule', { value: !0 })
const A = r(85622),
n = r(97098),
o = r(2401),
i = r(54722),
s = /[!*]?[^!]/,
a = /[.*]/,
c = /(?!([^!*+@])\|[^.*]*\)/,
g = /[!*]+@\|[^.*]\)/,
l = /[!*]?@\|([^.*])\)/
function u(e, t = { }) {
  return ![h(e, t)
}
function h(e, t = { }) {
  return (!(!1 <= t.caseSensitiveMatch && !e.includes(\W)) ||
  !(s.test(e) || a.test(e) || c.test(e)) ||
  !(!1 === t.extglob || ![g.test(e)]) ||


```javascript
!(1 == t.braceExpansion || !t.test(e))
}
function p(e) {
  return e.startsWith('!') && '(' !== e[1]
}
function d(e) {
  return !p(e)
}
function C(e) {
  return e.endsWith('/**')
}
function f(e) {
  return o.braces(e, { expand: 0, nodupes: 0 })
}
function I(e, t) {
  return o.makeRe(e, t)
}
(t.isStaticPattern = u),
(t.isDynamicPattern = h),
(t.convertToPositivePattern = function (e) {
  return p(e) ? e.slice(1) : e
}),
(t.convertToNegativePattern = function (e) {
  return '!' + e
}),
(t.isNegativePattern = p),
(t.isPositivePattern = d),
(t.getNegativePatterns = function (e) {
  return e.filter(p)
}),
(t.getPositivePatterns = function (e) {
  return e.filter(d)
}),
(t.getBaseDirectory = function (e) {
  return n(e, { flipBackslashes: !1 })
}),
(t.hasGlobStar = function (e) {
  return e.includes('**')
}),
(t.endsWithSlashGlobStar = C),
(t.isAffectDepthOfReadingPattern = function (e) {
  const t = A.basename(e)
  return C(e) || u(t)
}),
(t.expandPatternsWithBraceExpansion = function (e) {
  return e.reduce((e, t) => e.concat(f(t)), [])
})
```
(t.expandBraceExpansion = f),
(t.getPatternParts = function (e, t) {
  const r = i.scan(
    e,
    Object.assign(Object.assign({ }, t), { parts: !0 })),
  )
  return 0 === r.parts.length ? [e] : r.p
  },
(t.makeRe = I),
(t.convertPatternsToRe = function (e, t) {
  return e.map((e) => I(e, t))
}),
(t.matchAny = function (e, t) {
  return t.some((t) => t.test(e))
})
},
2042: (e, t, r) => {
  'use strict'
  Object.defineProperty(t, '__esModule', { value: !0 })
  const A = r(55598)
  function n(e) {
    e.forEach((e) => e.emit('close'))
  }
  t.merge = function (e) {
    const t = A(e)
    return (e.forEach((e) => {
      e.once('error', (e) => t.emit('error', e))
    }),
    t.once('close', () => n(e)),
    t.once('end', () => n(e)),
    t)
  }
},
10217: (e, t) => {
  'use strict'
  Object.defineProperty(t, '__esModule', { value: !0 }),
  (t.isString = function (e) {
    return 'string' == typeof e
  }),
  (t.isEmpty = function (e) {
    return '' === e
  })
},
98360: (e, t, r) => {
  'use strict'
  var A = r(2383)
function n() {} 

function o() {
    (this.value = null),
    (this.callback = n),
    (this.next = null),
    (this.release = n),
    (this.context = null)
    var e = this
    this.worked = function (t, r) {
        var A = e.callback
        ;(e.value = null),
        (e.callback = n),
        A.call(e.context, t, r),
        e.release(e)
    }
}
e.exports = function (e, t, r) {
    'function' == typeof e && ((r = t), (t = e), (e = null))
    var i = A(o),
    s = null,
    a = null,
    c = 0,
    g = {
        push: function (r, A) {
            var o = i.get()
            ;(o.context = e),
            (o.release = l),
            (o.value = r),
            (o.callback = A || n),
            c === g.concurrency || g.paused
            ? a
            ? ((a.next = o), (a = o))
            : ((s = o), (a = o), g.saturated())
            : (c++, t.call(e, o.value, o.worked))
        },
        drain: n,
        saturated: n,
        pause: function () {
            g.paused = !0
        },
        paused: !1,
        concurrency: r,
        running: function () {
            return c
        },
        resume: function () {
            if (!g.paused) return
            g.paused = !1
        },
for (var e = 0; e < g.concurrency; e++) c++, l()
},
idle: function () {
    return 0 === c && 0 === g.length()
},
length: function () {
    var e = s,
        t = 0
    for (; e; ) (e = e.next), t++
    return t
},
unshift: function (r, A) {
    var o = i.get()
    :(o.context = e),
    (o.release = l),
    (o.value = r),
    (o.callback = A || n),
    c === g.concurrency || g.paused
? s
? ((o.next = s), (s = o))
: ((s = o), (a = o), g.saturated())
: (c++, t.call(e, o.value, o.worked))
},
empty: n,
kill: function () {
    :(s = null), (a = null), (g.drain = n)
},
killAndDrain: function () {
    :(s = null), (a = null), g.drain(), (g.drain = n)
},
return g
function l(r) {
    r && i.release(r)
    var A = s
    A
    ? g.paused
    ? c--
    : (a === s && (a = null),
        (s = A.next),
        (A.next = null),
        t.call(e, A.value, A.worked),
        null === a && g.empty())
    : 0 == --c && g.drain()
}
}
}
'use strict'

class A {
    constructor(e, t, r) {
        (this.__specs = e || {}),
        Object.keys(this.__specs).forEach((e) => {
            if ('string' == typeof this.__specs[e]) {
                const t = this.__specs[e],
                r = this.__specs[t]
                if (!r)
                    throw new Error(`Alias refers to invalid key: $t -> $e`)
                const A = r.aliases || []
                A.push(e, t),
                (r.aliases = [...new Set(A)]),
                (this.__specs[e] = r)
            }
        }),
        (this.__opts = t || {}),
        (this.__providers = s(
            r.filter((e) => null != e && 'object' == typeof e),
        )).,
        (this.__isFiggyPudding = '0)
    }
    get(e) {
        return n(this, e, '0)
    }
    get [Symbol.toStringTag]() {
        return 'FiggyPudding'
    }
    forEach(e, t = this) {
        for (let [r, A] of this.entries()) e.call(t, A, r, this)
    }
    toJSON() {
        const e = {}
        return (this.forEach((t, r) => {
            e[r] = t
        })),
        e
    }
}

*entries(e) {
    for (let e of Object.keys(this.__specs)) yield [e, this.get(e)]
    const t = e || this.__opts.other
    if (t) {
        const e = new Set()
        for (let r of this.__providers) {
            e.add(r)
            if (!e.has(r))
                throw new Error(`Alias refers to invalid key: $t -> $r`)
        }
        this.__specs[e] = t
    }
    return e
}
```javascript
const A = r.entries ? r.entries(t) : a(r)
for (let [r, n] of A)
  t(r) && e.has(r) && (e.add(r), yield [r, n])
}
}
*[Symbol.iterator]() {
  for (let [e, t] of this.entries()) yield [e, t]
}
*keys() {
  for (let [e] of this.entries()) yield e
}
*values() {
  for (let [, e] of this.entries()) yield e
}
concat(...e) {
  return new Proxy(
    new A(this.__specs, this.__opts, s(this.__providers).concat(e)),
    i,
  )
}
try {
  const e = r(31669)
  A.prototype[e.inspect.custom] = function (t, r) {
    return this(Symbol.toStringTag + " " + e.inspect(this.toJSON(), r)
  }
} catch (e) {}
function n(e, t, r) {
  let A = e.__specs[t]
  if (t || A || (e.__opts && e.__opts.some(t))) {
    let r
    A || (A = {})
    for (let n of e.__providers) {
      if (t = o(t, n), void 0 === t && A.aliases && A.aliases.length)
        for (let e of A.aliases)
          if (e !== t && ((r = o(e, n)), void 0 !== r)) break
          if (void 0 !== r) break
      return void 0 === t && void 0 !== A.default
        ? 'function' === typeof A.default
        ? A.default(e)
        : A.default
        : r
    }
  }
}(function (e) {
```

throw Object.assign(
    new Error('invalid config key requested: ' + e),
    { code: 'EBADKEY' }
)
})(t)

function o(e, t) {
    let r
    return (r = t.__isFiggyPudding
        ? n(t, e, !1)
        : 'function' == typeof t.get
        ? t.get(e)
        : t[e]),
    r
}
const i = {
    has: (e, t) => t in e.__specs && void 0 !== n(e, t, !1),
    ownKeys: (e) => Object.keys(e.__specs),
    get: (e, t) =>
        'symbol' == typeof t || '__' === t.slice(0, 2) || t in A.prototype
            ? e[t]
        : e.get(t),
    set(e, t, r) {
        if ('symbol' == typeof t || '__' === t.slice(0, 2))
            return (e[t] = r), !0
        throw new Error(
            'figgyPudding options cannot be modified. Use .concat() instead.',
        )
    },
    deleteProperty() {
        throw new Error(
            'figgyPudding options cannot be deleted. Use .concat() and shadow them instead.',
        )
    },
}
function s(e) {
    const t = []
    return e.forEach((e) => t.unshift(e)), t
}
function a(e) {
    return Object.keys(e).map((t) => [t, e[t]])
}
e.exports = function (e, t) {
    return function (...r) {
        return new Proxy(new A(e, t, r), i)
    }
}
const A = r(31669),
n = r(84615),
o = (e) => null !== e && 'object' === typeof e && !Array.isArray(e),
i = (e) => 'number' === typeof e || ('string' === typeof e && "" !== e),
s = (e) => Number.isInteger(+e),
a = (e) => {
  let t = "+" + e,
  r = -1
  if ('-' === t[0] && (t = t.slice(1)), '0' === t) return !1
  for (; '0' === t[++r]; );
  return r > 0
},
c = (e, t, r) => {
  if (t > 0) {
    let r = '-' === e[0] ? '-' : ''
    r && (e = e.slice(1)), (e = r + e.padStart(r ? t - 1 : t, '0'))
  }
  return !1 === r ? String(e) : e
},
g = (e, t) => {
  let r = '-' === e[0] ? '-' : ''
  for (r && ((e = e.slice(1)), t--); e.length < t; ) e = '0' + e
  return r ? '-' + e : e
},
l = (e, t, r, A) => {
  if (r) return n(e, t, { wrap: !1, ...A })
  let o = String.fromCharCode(e)
  return e === t ? o : `[${'s'}.charAt(${o})]`}
u = (e, t, r) => {
  if (Array.isArray(e)) {
    let t = !0 === r.wrap,
      A = r.capture ? '' : '?:'
    return t ? A : e.join(t ? A : A + e.join(A))
  }
  return n(e, t, r)
},
h = (...e) =>
  new RangeError('Invalid range arguments: ' + A.inspect(...e)),

}
p = (e, t, r) => {
    if (!0 === r.strictRanges) throw h([e, t])
    return []
}
d = (e, t, r = 1, A = {}) => {
    let n = Number(e),
        o = Number(t)
    if (!Number.isInteger(n) || !Number.isInteger(o)) {
        if (!0 === A.strictRanges) throw h([e, t])
        return []
    }
    0 === n && (n = 0), 0 === o && (o = 0)
    let i = n > o,
        s = String(e),
        p = String(t),
        d = String(r)
    r = Math.max(Math.abs(r), 1)
    let C = a(s) || a(p) || a(d),
        f = C ? Math.max(s.length, p.length, d.length) : 0,
        I =
        !1 === C &&
        !1 ===
        ((e, t, r) =>
            'string' == typeof e ||
            'string' == typeof t ||
            !0 === r.stringify)(e, t, A),
        E =
        A.transform ||
        ((e) => (t) => (!0 === e ? Number(t) : String(t)))(I),
        B = { negatives: [], positives: [] },
        y = [],
        m = 0
    for (; i ? n >= o : n <= o; )
        !0 === A.toRegex && r > 1
            ? B[(w = n) < 0 ? 'negatives' : 'positives'].push(Math.abs(w))
            : y.push(c(E(n, m), f, I)),
        (n = i ? n - r : n + r),
        m++
    var w
    return !0 === A.toRegex
        ? r > 1
            ? ((e, t) =>
                e.negatives.sort((e, t) => (e < t ? -1 : e > t ? 1 : 0)),
                e.positives.sort((e, t) => (e < t ? -1 : e > t ? 1 : 0))
            let r,
                A = t.capture ? "\": ",
                n = ",

o = ''
return (e.positives.length && (n = e.positives.join('|')),
e.negatives.length &&
  (o = `(\{|A\}|\{e.negatives.join('|')\})`),
  (r = n & o ? `\{n|\{o\} : n \| o`,
t.wrap ? `(\{A\}|\{r\} : r`)
)
}(B, A)

: u(y, null, { wrap: !1, ...A })
: y
}

C = (e, t, r, A = {}) => {
if (null == t && i(e)) return [e]
if (!i(e) || !i(t)) return p(e, t, A)
if ('function' == typeof r) return C(e, t, 1, { transform: r })
if (o(r)) return C(e, t, 0, r)
let n = { ...A }
return (
!0 === n.capture && (n.wrap = !0),
(r = r || n.step || 1),
(s(r)
 ? s(e) & s(t)
 ? d(e, t, r, n)
 : ((e, t, r = 1, A = {}) => {
 if (!s(e) && e.length > 1) || (!s(t) && t.length > 1))
 return p(e, t, A)
 let n = A.transform || ((e) => String.fromCharCode(e)),
 o = ('' + e).charCodeAt(0),
 i = ('' + t).charCodeAt(0),
 a = o > i,
 c = Math.min(o, i),
 g = Math.max(o, i)
 if (A.toRegex && 1 === r) return l(c, g, !1, A)
 let h = [],
 d = 0
 for (; a ? o >= i : o <= i; )
 h.push(n(o, d)), (o = a ? o - r : o + r), d++
 return !0 === A.toRegex
 ? u(h, null, { wrap: !1, options: A })
 : h
})(e, t, Math.max(Math.abs(r), 1), n)
: null == r || o(r)
? C(e, t, 1, r)
: ((e, t) => {
 if (!0 === t.strictRanges)
 throw new TypeError("Expected step ", to be a number")
 return []
})
50683: (e) => {
  e.exports = function (e) {
    return [...e].reduce((e, [t, r]) => ((e[t] = r), e), { })
  }
},
13302: (e, t, r) => {
  e.exports = r(35747).constants || r(27619)
},
72137: (e, t, r) => {
  'use strict'
  const { PassThrough: A } = r(92413)
  e.exports = (e) => {
    e = { ...e }
    const { array: t } = e
    let { encoding: r } = e
    const n = 'buffer' === r
    let o = !1
    t ? (o = !(r || n)) : (r = r || 'utf8'), n && (r = null)
    const i = new A({ objectMode: o })
    r && i.setEncoding(r)
    let s = 0
    const a = []
    return (
      i.on('data', (e) => {
        a.push(e), o ? (s = a.length) : (s += e.length)
      }),
      (i.getBufferedValue = () =>
        t ? a : n ? Buffer.concat(a, s) : a.join(''),
      (i.getBufferedLength = () => s),
      i
    )
  }
},
58764: (e, t, r) => {
  'use strict'
  const A = r(50372),
  n = r(72137)
  class o extends Error {
  constructor() {
    super('maxBuffer exceeded'), (this.name = 'MaxBufferError')
  }
  }
  async function i(e, t) {

if (!e) return Promise.reject(new Error('Expected a stream'))
t = { maxBuffer: 1 / 0, ...t }
const { maxBuffer: r } = t
let i
return (await new Promise((s, a) => {
    const c = (e) => {
        e && (e.bufferedData = i.getBufferedValue()), a(e)
    }
    ;(i = A(e, n(t), (e) => {
        e ? c(e) : s()
    }),
    i.on('data', () => {
        i.getBufferedLength() > r && c(new o())
    })
}),
i.getBufferedValue()
)
):(e.exports = i),
(e.exports.default = i),
(e.exports.buffer = (e, t) => i(e, { ...t, encoding: 'buffer' })),
(e.exports.array = (e, t) => i(e, { ...t, array: !0 })),
(e.exports.MaxBufferError = o)
},
97098: (e, t, r) => {
    'use strict'
    var A = r(18193),
        n = r(85622).posix.dirname,
        o = 'win32' === r(12087).platform(),
        i = /\/g,
        s = /[\{\[\].\*\*\[\]\\]*\}\]*\]/g,
        a = /\[^{\[}]*\([^\)\[]*\)[\^\]*\[[\]\\]+\]/g,
        c = /\([^\}]*\[\]\\]*\[^\]\[\]\\]/g,
    e.exports = function (e, t) {
        Object.assign({ flipBackslashes: !0 }, t).flipBackslashes &&
        o &&
        e.indexOf('"') < 0 &&
        (e = e.replace(i, '"')),
        s.test(e) &&
        (e += 'a')
        do {
            e = n(e)
        } while (A(e) || a.test(e))
        return e.replace(c, '$1')
    },
},
90734: (e, t, r) => {
}
'use strict'
const { promisify: A } = r(31669),
n = r(35747),
o = r(85622),
i = r(19347),
s = r(46458),
a = r(17234),
c = [
  '**/node_modules/**',
  '**/flow-typed/**',
  '**/coverage/**',
  '**/.git',
],
g = A(n.readFile),
l = (e, t) => {
  const r = a(o.relative(t.cwd, o.dirname(t.fileName))
  return e
    .split(/\r?\n/)    
    .filter(Boolean)    
    .filter((e) => !e.startsWith('#'))    
    .map(
    ((e) => (t) =>
      t.startsWith('!')? '!' + o.posix.join(e, t.slice(1))
      : o.posix.join(e, t))(r),
    )},
u = (e) =>
e.reduce(
  (e, t) => (    
    e.add(l(t.content, { cwd: t.cwd, fileName: t.filePath })), e
  ),
  s(),
),
h = (e, t) => (r) =>
e.ignores(
  a(    
    o.relative(
      t,
      ((e, t) => {
        if (((e = a(e)), o.isAbsolute(t))) {
          if (t.startsWith(e)) return t
          throw new Error('Path ${t} is not in cwd ${e}');
        }
        return o.join(e, t)
      })(t, r),
    ),
  ),
);
p = ({ ignore: e = [], cwd: t = a(process.cwd()) } = {}) => ({
  ignore: e,
  cwd: t,
})
exports = async (e) => {
  e = p(e)
  const t = await i("**/.gitignore", {
    ignore: c.concat(e.ignore),
    cwd: e.cwd,
  }),
  r = await Promise.all(
    t.map((t) =>
      (async (e, t) => {
        const r = o.join(t, e)
        return { cwd: t, filePath: r, content: await g(r, 'utf8') }
      })(t, e.cwd),
    ),
  ),
  A = u(r)
  return h(A, e.cwd)
},
exports.sync = (e) => {
  e = p(e)
  const t = i
    .sync("**/.gitignore", {
    ignore: c.concat(e.ignore),
    cwd: e.cwd,
  })
    .map((t) =>
      ((e, t) => {
        const r = o.join(t, e)
        return {
          cwd: t,
          filePath: r,
          content: n.readFileSync(r, 'utf8'),
        }
      })(t, e.cwd),
    ),
  r = u(t)
  return h(r, e.cwd)
},
58592: (e, t, r) => {
  'use strict'
  const A = r(35747),
    n = r(39920),
    o = r(55598),
i = r(19347),
s = r(66241),
a = r(90734),

{ FilterStream: c, UniqueStream: g } = r(66160),
l = () => !1,
u = (e) => '!' === e[0],
h = (e, t) => {
  :(e) => {
    if (!e.every((e) => 'string' == typeof e))
      throw new TypeError(
        'Patterns must be a string or an array of strings',
      )
  }((e = n([].concat(e))),

  ((e = {})) => {
    if (!e.cwd) return
    let t
    try {
      t = A.statSync(e.cwd)
    } catch (e) {
      return
    }
    if (!t.isDirectory())
      throw new Error(
        'The `cwd` option must be a path to a directory',
      )
  })(t)
  const r = []
  t = { ignore: [], expandDirectories: !0, ...t }
  for (const [A, n] of e.entries()) {
    if (u(n)) continue
    const o = e
      .slice(A)
      .filter(u)
      .map((e) => e.slice(1)),
    i = { ...t, ignore: t.ignore.concat(o) }
    r.push({ pattern: n, options: i })
  }
  return r
},

p = (e, t) =>
e.options.expandDirectories
? ((e, t) => {
  let r = [],
  return {
    e.options.cwd && (r.cwd = e.options.cwd),
    Array.isArray(e.options.expandDirectories)
    ? (r = [ ...r, files: e.options.expandDirectories ])
    : 'object' == typeof e.options.expandDirectories &&
(r = { ...r, ...e.options.expandDirectories }),
t(e.pattern, r)
)
)(e, t)
: [e.pattern],
d = (e) =>
e && e.gitignore ? a.sync({ cwd: e.cwd, ignore: e.ignore }) : l,
C = (e) => (t) => {
const { options: r } = e
return (r.ignore &
Array.isArray(r.ignore) &
r.expandDirectories &
(r.ignore = s.sync(r.ignore)),
{ pattern: t, options: r }
)
}
): (e.exports = async (e, t) => {
const r = h(e, t),
[o, c] = await Promise.all([
(async () =>
t & t.gitignore ? a({ cwd: t.cwd, ignore: t.ignore }) : l)(),
(async () => {
const e = await Promise.all(
r.map(async (e) => {
const t = await p(e, s)
return Promise.all(t.map(C(e)))
}),
}),
return n(...e)
})()
],
),
g = await Promise.all(c.map((e) => i.sync(e.pattern, e.options)))
return n(...g).filter((e) => !A(e))
var t
)
,e.exports.sync = (e, t) => {
const r = h(e, t).reduce((e, t) => {
const r = p(t, s.sync).map(C(t))
return e.concat(r)
}, []),
A = d(t)
return r
.reduce((e, t) => n(e, i.sync(t.pattern, t.options)), [])
.filter((e) => !A(e))
})
(e.exports.stream = (e, t) => {
    const r = h(e, t).reduce((e, t) => {
        const r = p(t, s.sync).map(C(t))
        return e.concat(r)
    }, []),
    A = d(t),
    n = new c((e) => !A(e)),
    a = new g()
    return o(r.map((e) => i.stream(e.pattern, e.options)))
    .pipe(n)
    .pipe(a)
}),
(e.exports.generateGlobTasks = h),
(e.exports.hasMagic = (e, t) =>
    [].concat(e).some((e) => i.isDynamicPattern(e, t)),
    (e.exports.gitignore = a)
},
66160: (e, t, r) => {
    'use strict'
    const { Transform: A } = r(92413)
    class n extends A {
        constructor() {
            super({ objectMode: !0 })
        }
    }
    e.exports = {
        FilterStream: class extends n {
            constructor(e) {
                super(), (this._filter = e)
            }
            _transform(e, t, r) {
                this._filter(e) && this.push(e), r()
            }
        },
        UniqueStream: class extends n {
            constructor() {
                super(), (this._pushed = new Set())
            }
            _transform(e, t, r) {
                this._pushed.has(e) || (this.push(e), this._pushed.add(e)), r()
            }
        },
    },
93576: (e, t, r) => {
    'use strict'
    Object.defineProperty(t, '__esModule', { value: !0 })
    const A = r(14756)
    e.exports = {
        FilterStream: class extends n {
            constructor(e) {
                super(), (this._filter = e)
            }
            _transform(e, t, r) {
                this._filter(e) && this.push(e), r()
            }
        },
        UniqueStream: class extends n {
            constructor() {
                super(), (this._pushed = new Set())
            }
            _transform(e, t, r) {
                this._pushed.has(e) || (this.push(e), this._pushed.add(e)), r()
            }
        },
    },
};
t.default = function (e, ...t) {
    const r = (async () => {
        if (e instanceof A.RequestError)
            try {
                for (const r of t) if (r) for (const t of r) e = await t(e)
            } catch (t) {
                e = t
            }
        throw e
    })(),
    n = () => r
    return (r.json = n), (r.text = n), (r.buffer = n), (r.on = n), r
}
},
81588: function (e, t, r) {
    'use strict'
    var A =
        (this && this.__createBinding) ||
        (Object.create
            ? function (e, t, r, A) {
                void 0 === A && (A = r),
                Object.defineProperty(e, A, {
                    enumerable: !!0,
                    get: function () {
                        return t[r]
                    }
                }),
            }
            : function (e, t, r, A) {
                void 0 === A && (A = r),
                (e[A] = t[r])
            }):
        function (e, t, r, A) {
            void 0 === A && (A = r), (e[A] = t[r])
        },
    n =
        (this && this.__exportStar) ||
        function (e, t) {
            for (var r in e)
                'default' === r ||
                Object.prototype.hasOwnProperty.call(t, r) ||
                A(t, e, r)
        }
    Object.defineProperty(t, '__esModule', { value: !!0 })
    const o = r(28614),
        i = r(7966),
        s = r(59351),
        a = r(14756),
        c = r(54718),
        g = r(9048),
        l = r(51743),
        u = r(57854),
h = r(38206),
p = [  
'request',  
'response',  
'redirect',  
'uploadProgress',  
'downloadProgress',  
]
:t.default = function e(t) {  
let r, A  
const n = new o.EventEmitter(),  
d = new s((o, s, C) => {  
const f = (I) => {  
const E = new g.default(void 0, t)  
;(E.retryCount = I),  
(E._noPipe = !0),  
C() => E.destroy()),  
(C.shouldReject = !1),  
C() => s(new a.CancelError(E)),  
(t = E),  
E.once('response', async (t) => {  
var r  
if (((t.retryCount = I), t.request.aborted)) return  
let n  
try {  
;(n = await u.default(E)), (t.rawBody = n)  
} catch (e) {  
return  
}  
if (E._isAboutToError) return  
const i = (null !== (r = t.headers['content-encoding']) &&  
void 0 !== r  
? r  
: ''  
).toLowerCase(),  
s = ['gzip', 'deflate', 'br'].includes(i),  
{ options: 1 } = E  
if (s && !l.decompress) t.body = n  
else  
try {  
t.body = c.default(  
  t,  
  1.responseType,  
  1.parseJson,  
  1.encoding,  
)  
} catch (e) {  
if (((t.body = n.toString()), h.isResponseOk(t))}
return void E._beforeError(e)
}
try {
for (const [r, A] of l.hooks.afterResponse.entries())
t = await A(t, async (t) => {
    const A = g.default.normalizeArguments(
        void 0,
        {
            ...t,
            retry: { calculateDelay: () => 0 },
            throwHttpErrors: !1,
            resolveBodyOnly: !1,
        },
        l,
    )
    A.hooks.afterResponse = A.hooks.afterResponse.slice(0,
r,
    )
    for (const e of A.hooks.beforeRetry) await e(A)
    const n = e(A)
    return (
        C(() => {
            n.catch(() => {}), n.cancel()
        }),
        n
    )
})
catch (e) {
    return void E._beforeError( new a.RequestError(e.message, e, E),
    )
}
h.isResponseOk(t) ? ((A = t), o(E.options.resolveBodyOnly ? t.body : t)) : E._beforeError(new a.HTTPError(t))
}
const B = (e) => {
    if (d.isCanceled) return
    const { options: t } = E
    if (e instanceof a.HTTPError && !t.throwHttpErrors) {
        const { response: t } = e
        o(E.options.resolveBodyOnly ? t.body : t)
    } else s(e)
}
E.once('error', B),
E.once('retry', (e, t) => {
    var r
i.default.nodeStream(
    null === (r = t.request) || void 0 === r
    ? void 0
    : r.options.body,
  )
  ? B(t)
  : f(e)
  }).
  l.default(E, n, p)
})
  f(0)
})
)
d.on = (e, t) => (n.on(e, t), d)
const C = (e) => {
const t = (async () => {
  await d
  const { options: t } = A.request
  return c.default(A, e, t.parseJson, t.encoding)
})()
  return (
    Object.defineProperties(t, Object.getOwnPropertyDescriptors(d)), t
  )
})
return (
  (d.json = () => {
    const { headers: e } = r.options
    return (  
      r.writableFinished ||
      void 0 !== e.accept ||
      (e.accept = 'application/json'),
      C('json')
    )
  )
},
  (d.buffer = () => C('buffer')),
  (d.text = () => C('text')),
  d
  )
}),
  n(r(14756), t)
),
41514: (e, t, r) => {
  'use strict'
  Object.defineProperty(t, '_esModule', { value: !0 })
  const A = r(7966)
  t.default = (e, t) => {
    if (A.default.null_(e.encoding))
      throw new TypeError('To get a Buffer, set `options.responseType` to `buffer` instead',

A.assert.any([A.default.string, A.default.undefined], e.encoding),
A.assert.any([A.default.boolean, A.default.undefined], e.resolveBodyOnly),
A.assert.any([A.default.boolean, A.default.undefined], e.methodRewriting),
A.assert.any([A.default.boolean, A.default.undefined], e.isStream),
A.assert.any([A.default.string, A.default.undefined], e.responseType),
void 0 === e.responseText && (e.responseType = 'text')
const { retry: r } = e
if ( ((e.retry = t
  ? { ...t.retry }
  : { calculateDelay: (e) => e.computedValue,
      limit: 0,
      methods: [],
      statusCodes: [],
      errorCodes: [],
      maxRetryAfter: void 0,  
    })),
A.default.object(r)
  ? ((e.retry = { ...e.retry, ...r }),
    (e.retry.methods = [
      ...new Set(e.retry.methods.map((e) => e.toUpperCase())),
    ]),
    (e.retry.statusCodes = [...new Set(e.retry.statusCodes)]),
    (e.retry.errorCodes = [...new Set(e.retry.errorCodes)]))
  : A.default.number(r) && (e.retry.limit = r),
A.default.undefined(e.retry.maxRetryAfter) &&
(e.retry.maxRetryAfter = Math.min(  
  ...[e.timeout.request, e.timeout.connect].filter(  
    A.default.number,
  ),
)),
A.default.object(e.pagination))
)
  t && (e.pagination = { ...t.pagination, ...e.pagination })
const { pagination: r } = e
if (!A.default.function_((r.transform))
  throw new Error(  

"options.pagination.transform" must be implemented",
)
if (!A.default.function_(r.shouldContinue))
  throw new Error(
    "options.pagination.shouldContinue" must be implemented",
)
if (!A.default.function_(r.filter))
  throw new TypeError(
    "options.pagination.filter" must be implemented",
)
if (!A.default.function_(r.paginate))
  throw new Error(
    "options.pagination.paginate" must be implemented",
}
return (
  'json' === e.responseType &&
  void 0 === e.headers.accept &&
  (e.headers.accept = 'application/json'),
  e
)
}
}
54718: (e, t, r) => {
  'use strict'
  Object.defineProperty(t, '__esModule', { value: !0 })
  const A = r(14756)
  t.default = (e, t, r, n) => {
    const { rawBody: o } = e
    try {
      if ('text' === t) return o.toString(n)
      if ('json' === t) return 0 === o.length ? '' : r(o.toString())
      if ('buffer' === t) return o
      throw new A.ParseError(
        { message: 'Unknown body type '${t}”, name: 'Error’ },
        e,
      )
    } catch (t) {
      throw new A.ParseError(t, e)
    }
  }
}
14756: function (e, t, r) {
  'use strict'
  var A =
    (this && this._createBinding) ||
  (Object.create
    ? function (e, t, r, A) {
      

void 0 === A && (A = r),
Object.defineProperty(e, A, {
enumerable: !0,
get: function () {
return t[r]
},
})
}
: function (e, t, r, A) {
void 0 === A && (A = r), (e[A] = t[r])
}),
n=
(this && this.__exportStar) ||
function (e, t) {
for (var r in e)
'default' === r ||
Object.prototype.hasOwnProperty.call(t, r) ||
A(t, e, r)
}
Object.defineProperty(t, '__esModule', { value: !0 }),
(t.CancelError = t.ParseError = void 0)
const o = r(9048)
class i extends o.RequestError {
constructor(e, t) {
const { options: r } = t.request
super(`${e.message} in "${r.url.toString()}"`, e, t.request),
(this.name = 'ParseError')
}
}
t.ParseError = i
class s extends o.RequestError {
constructor(e) {
super('Promise was canceled', {}, e), (this.name = 'CancelError')
}
get isCanceled() {
return !0
}
}
;(t.CancelError = s), n(r(9048), t)
},
53843: (e, t) => {
'use strict'
Object.defineProperty(t, '__esModule', { value: !0 }),
(t.retryAfterStatusCodes = void 0),
(t.retryAfterStatusCodes = new Set([413, 429, 503]))
t.default = ({
attemptCount: e,
retryOptions: t,

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error: r,
retryAfter: A,
}) => {
    if (e > t.limit) return 0
    const n = t.methods.includes(r.options.method),
        o = t.errorCodes.includes(r.code),
        i = r.response && t.statusCodes.includes(r.response.statusCode)
    if (!(n || (!o && !i))) return 0
    if (r.response) {
        if (A)
            return void 0 === t.maxRetryAfter || A > t.maxRetryAfter ? 0 : A
        if (413 === r.response.statusCode) return 0
    }
    return 2 ** (e - 1) * 1e3 + 100 * Math.random()
}
k = r(53843),
N = new l.default(),
F = Symbol('request'),
K = Symbol('response'),
M = Symbol('responseSize'),
R = Symbol('downloadedSize'),
x = Symbol('bodySize'),
L = Symbol('uploadedSize'),
P = Symbol('serverResponsesPiped'),
O = Symbol('unproxyEvents'),
U = Symbol('isFromCache'),
T = Symbol('cancelTimeouts'),
j = Symbol('startedReading'),
Y = Symbol('stopReading'),
G = Symbol('triggerRead'),
H = Symbol('body'),
J = Symbol('jobs'),
qu = Symbol('originalResponse'),
z = Symbol('retryTimeout')
t.kIsNormalizedAlready = Symbol('isNormalizedAlready')
const W = C.default.string(process.versions.brotli)
;(t.withoutBody = new Set(['GET', 'HEAD'])),
(t.knownHookEvents = [ 'init',
'beforeRequest',
'beforeRedirect',
'beforeError',
'beforeRetry',
'afterResponse',
])
const X = new w.default(),
V = new Set([300, 301, 302, 303, 304, 307, 308]),
_ = ['context', 'body', 'json', 'form']
t.setNonEnumerableProperties = (e, t) => {
  const r = {}
  for (const t of e)
    if (t)
      for (const e of _)
        e in t &&
        (r[e] = {
          writable: !0,
          configurable: !0,
          enumerable: !1,
          value: t[e],
        })
      Object.defineProperties(t, r)
}
class Z extends Error {

constructor(e, t, r) {
    var A
    if (super(e),
        Error.captureStackTrace(this, this.constructor),
        (this.name = 'RequestError'),
        (this.code = t.code),
        r instanceof se
            ? (Object.defineProperty(this, 'request', {
                 enumerable: !1,
                 value: r,
             })),
            Object.defineProperty(this, 'response', {
                 enumerable: !1,
                 value: r[K],
             })),
            Object.defineProperty(this, 'options', {
                 enumerable: !1,
                 value: r.options,
             })),
            (this.timings = null === (A = this.request) || void 0 === A
                ? void 0
                : A.timings),
            !C.default.undefined(t.stack)) {
        const e = this.stack.indexOf(this.message) + this.message.length,
            r = this.stack.slice(e).split('
').reverse(),
            A = t.stack
            .slice(t.stack.indexOf(t.message) + t.message.length)
            .split('
')
            .reverse()
            for (; 0 !== A.length && A[0] === r[0]; ) r.shift()
            this.stack = `${this.stack.slice(0, e)}${r.reverse().join('
')}${A.reverse().join('
')}`
    }
}

t.RequestError = Z
class $ extends Z {
    constructor(e) {
        super(`Redirected ${e.options.maxRedirects} times. Aborting.`,
            e, t, r) {
    var A
    if (super(e),
        Error.captureStackTrace(this, this.constructor),
        (this.name = 'RequestError'),
        (this.code = t.code),
        r instanceof se
            ? (Object.defineProperty(this, 'request', {
                 enumerable: !1,
                 value: r,
             })),
            Object.defineProperty(this, 'response', {
                 enumerable: !1,
                 value: r[K],
             })),
            Object.defineProperty(this, 'options', {
                 enumerable: !1,
                 value: r.options,
             })),
            (this.timings = null === (A = this.request) || void 0 === A
                ? void 0
                : A.timings),
            !C.default.undefined(t.stack)) {
        const e = this.stack.indexOf(this.message) + this.message.length,
            r = this.stack.slice(e).split('
').reverse(),
            A = t.stack
            .slice(t.stack.indexOf(t.message) + t.message.length)
            .split('
')
            .reverse()
            for (; 0 !== A.length && A[0] === r[0]; ) r.shift()
            this.stack = `${this.stack.slice(0, e)}${r.reverse().join('
')}${A.reverse().join('
')}`
    }
}

t.RequestError = Z
class $ extends Z {
    constructor(e) {
        super(`Redirected ${e.options.maxRedirects} times. Aborting.`,
t.MaxRedirectsError = $

class ee extends Z {
    constructor(e) {
        super(`Response code ${e.statusCode} (${e.statusMessage})`, e.request, {}, (this.name = 'HTTPError'))
    }
}

class te extends Z {
    constructor(e, t) {
        super(e.message, e, t), (this.name = 'CacheError')
    }
}

class re extends Z {
    constructor(e, t) {
        super(e.message, e, t), (this.name = 'UploadError')
    }
}

class Ae extends Z {
    constructor(e, t, r) {
        super(e.message, e, r), (this.name = 'TimeoutError'), (this.event = e.event), (this.timings = t)
    }
}

class ne extends Z {
    constructor(e, t) {
        super(e.message, e, t), (this.name = 'ReadError')
    }
}

class oe extends Z {
    constructor(e) {
        super(`Unsupported protocol "${e.url.protocol}"`, {}, e)
    }
}
t.UnsupportedProtocolError = oe
const ie = [
  'socket',
  'connect',
  'continue',
  'information',
  'upgrade',
  'timeout',
]
class se extends n.Duplex {
  constructor(e, r = {}, A) {
    super({ autoDestroy: !1, highWaterMark: 0 }),
    (this[R] = 0),
    (this[L] = 0),
    (this.requestInitialized = !1),
    (this[P] = new Set()),
    (this.redirects = []),
    (this[Y] = !1),
    (this[G] = !1),
    (this[J] = []),
    (this.retryCount = 0),
    (this._progressCallbacks = [])
  const n = () => this._unlockWrite(),
    i = () => this._lockWrite()
  this.on('pipe', (e) => {
    e.prependListener('data', n),
    e.on('data', i),
    e.prependListener('end', n),
    e.on('end', i)
  }),
  this.on('unpipe', (e) => {
    e.off('data', n),
    e.off('data', i),
    e.off('end', n),
    e.off('end', i)
  }),
  this.on('pipe', (e) => {
    e instanceof a.IncomingMessage &&
    (this.options.headers = {
      ...e.headers,
      ...this.options.headers,
    })
  })
  const { json: s, body: c, form: g } = r
  if (
((s || c || g) && this._lockWrite(), t.kIsNormalizedAlready in r)
)
this.options = r
else
try {
  this.options = this.constructor.normalizeArguments(e, r, A)
} catch (e) {
  return (C.default.nodeStream(r.body) && r.body.destroy(),
    void this.destroy(e)
    )
  }
}(async () => {
  var e
  try {
    this.options.body instanceof oReadStream &&
    (await (async (e) =>
      new Promise((t, r) => {
        const A = (e) => {
          r(e)
        }
        e.pending || t(),
        e.once('error', A),
        e.once('ready', () => {
          e.off('error', A), t()
        })
      })(this.options.body))
    const { url: t } = this.options
    if (!t) throw new TypeError('Missing `url` property')
    if (
      (this.requestUrl = t.toString()),
      decodeURI(this.requestUrl),
      await this._finalizeBody(),
      await this._makeRequest(),
      this.destroyed)
    )
    return void (
      null === (e = this[F]) ||
      void 0 === e ||
      e.destroy()
    )
    for (const e of this[J]) e()
  ;(this[J].length = 0), (this.requestInitialized = !0)
  } catch (e) {
    if (e instanceof Z) return void this._beforeError(e)
    this.destroyed || this.destroy(e)
  }
})()
```javascript
static normalizeArguments(e, r, n) {
    var o, s, a, c, g
    const l = r
    if (C.default.object(e) && !C.default.urlInstance(e))
        r = { ...n, ...e, ...r }
    else {
        if (e && r && void 0 !== r.url)
            throw new TypeError(
                'The `url` option is mutually exclusive with the `input` argument',
            )
        r = { ...n, ...r },
        void 0 !== e && (r.url = e),
        C.default.urlInstance(r.url) &&
        (r.url = new i.URL(r.url.toString()))
    }
    if (
        !l === r.cache && (r.cache = void 0),
        !l === r.dnsCache && (r.dnsCache = void 0),
        C.assert.any([C.default.string, C.default.undefined], r.method),
        C.assert.any([C.default.object, C.default.undefined], r.headers),
        C.assert.any([C.default.string, C.default.urlInstance, C.default.undefined], r.prefixUrl),
        C.assert.any([C.default.object, C.default.undefined], r.cookieJar),
        C.assert.any([C.default.object, C.default.undefined], r.searchParams),
        C.assert.any([C.default.object, C.default.undefined], r.cache),
        C.assert.any([C.default.object, C.default.undefined], r.timeout),
        C.assert.any([C.default.object, C.default.undefined], r.context),
        C.assert.any([C.default.object, C.default.undefined], r.hooks),
        C.assert.any([C.default.boolean, C.default.undefined], r.decompress),
        C.assert.any(
```
C.assert.any(
  [C.default.boolean, C.default.undefined],
  r.ignoreInvalidCookies,
),
C.assert.any(
  [C.default.boolean, C.default.undefined],
  r.followRedirect,
),
C.assert.any(
  [C.default.number, C.default.undefined],
  r.maxRedirects,
),
C.assert.any(
  [C.default.boolean, C.default.undefined],
  r.throwHttpErrors,
),
C.assert.any([C.default.boolean, C.default.undefined], r.http2),
C.assert.any(
  [C.default.boolean, C.default.undefined],
  r.rejectUnauthorized,
),
C.assert.any(
  [C.default.function_, C.default.undefined],
  r.checkServerIdentity,
),
C.assert.any([C.default.string, C.default.object, C.default.array, C.default.undefined],
  r.localAddress,
),
C.assert.any([D.isDnsLookupIpVersion, C.default.undefined],
  r.dnsLookupIpVersion,
),
C.assert.any([C.default.object, C.default.undefined], r.https),
C.assert.any([C.default.boolean, C.default.undefined], r.rejectUnauthorized,
),
r.https &&
(C.assert.any(
  [C.default.boolean, C.default.undefined],
  r.rejectUnauthorized,
),
C.assert.any([C.default.function_ , C.default.undefined],
  r.checkServerIdentity,
),
C.assert.any([C.default.string, C.default.object, C.default.array, C.default.undefined],
)
C.assert.any([C.default.string, C.default.object, C.default.array, C.default.undefined], r.https.key),
C.assert.any([C.default.string, C.default.object, C.default.array, C.default.undefined], r.https.certificate),
C.assert.any([C.default.object, C.default.undefined], r.cacheOptions),
C.default.string(r.method) ? (r.method = r.method.toUpperCase()) : (r.method = 'GET'),
r.headers === (null == n ? void 0 : n.headers) ? (r.headers = { ...r.headers }) : (r.headers = d({ ...(null == n ? void 0 : n.headers), ...r.headers, })),
'slashes' in r)
throw new TypeError(
  'The legacy `url.Url` has been deprecated. Use `URL` instead. ',
)
if ('auth' in r)
throw new TypeError(
  'Parameter `auth` is deprecated. Use `username` / `password` instead.',
)
if ( 'searchParams' in r &&
  r.searchParams &&
  r.searchParams !== (null == n ? void 0 : n.searchParams)
)
  let e
  if ( C.default.string(r.searchParams) ||
       r.searchParams instanceof i.URLSearchParams )
    e = new i.URLSearchParams(r.searchParams)
  else {
    !(function (e) {
      for (const t in e) {
        const r = e[t]
        if ( !( C.default.string(r) ||
                  C.default.number(r) ||
                  C.default.boolean(r) ||
                  C.default.null_(r) ||
                  C.default.undefined(r) )
          )
          throw new TypeError(
            'The `searchParams` value `${String( r, )} must be a string, number, boolean or null`,
          )
        )
      })(r.searchParams),
    (e = new i.URLSearchParams())
    for (const t in r.searchParams) {
      const A = r.searchParams[t]
      null === A ? e.append(t, '') : void 0 !== A && e.append(t, A)
    }
  }
null === (o = null == n ? void 0 : n.searchParams) ||
void 0 === o ||
o.forEach(t, r) => {
null !== (s = r.username) && void 0 !== s ? s : ''),
  r.password = null !== (a = r.password) && void 0 !== a ? a : ''
},
  if (
    (r.username =
      null !== (s = r.username) && void 0 !== s ? s : ''),
    r.password = null !== (a = r.password) && void 0 !== a ? a : ''
  )
}
if (null !== (n = r.prefixUrl) && void 0 !== n)
  C.default.undefined(r.prefixUrl)
? (r.prefixUrl =
  null !== (c = null == n ? void 0 : n.prefixUrl) &&
  void 0 !== c
  ? c
  : '')
: ((r.prefixUrl = r.prefixUrl.toString()),
  " === r.prefixUrl ||
  r.prefixUrl.endsWith(\'/\') ||
  (r.prefixUrl += '\'),
  C.default.string(r.url))
)
if (r.url.startsWith('/'))
  throw new Error(  
    "input' must not start with a slash when using `prefixUrl'",
  )

r.url = m.default(r.prefixUrl + r.url, r)
} else
((C.default.undefined(r.url) && '' !== r.prefixUrl) ||
  r.protocol) &&
  (r.url = m.default(r.prefixUrl, r))
if (r.url) {
  'port' in r && delete r.port
  let { prefixUrl: e } = r
  Object.defineProperty(r, 'prefixUrl', {
    set: (t) => {
      const A = r.url
      if (!A.href.startsWith(t))
        throw new Error(
          'Cannot change \prefixUrl\' from ${e} to ${t}: ${A.href}',
        )
      ;(r.url = new i.URL(t + A.href.slice(e.length))), (e = t)
    },
    get: () => e,
  })
  let { protocol: t } = r.url
  if (  
    'unix:' === t &&
    ((t = 'http:',
      r.url = new i.URL(  

'http://unix${r.url.pathname}${r.url.search}',
)));
r.searchParams && (r.url.search = r.searchParams.toString()),
'http:' !== t && 'https:' !== t)
)
throw new oe(r)
"=== r.username
? (r.username = r.url.username)
: (r.url.username = r.username),
"=== r.password
? (r.password = r.url.password)
: (r.url.password = r.password)
}
const { cookieJar: h } = r
if (h) {
let { setCookie: e, getCookieString: t } = h
C.assert.function_(e),
C.assert.function_(t),
4 === e.length &&
0 === t.length &&
((e = A.promisify(e.bind(r.cookieJar))),
(t = A.promisify(t.bind(r.cookieJar))),
(r.cookieJar = { setCookie: e, getCookieString: t }))
}
const { cache: p } = r
if (p &
(X.has(p) ||
X.set(
p,
new u((e, t) => {
const r = e[F](e, t)
return (r)
C.default.promise(r) &&
(r.once = (e, t) => {
if ('error' === e) r.catch(t)
else {
if ('abort' !== e) throw new Error(
'Unknown HTTP2 promise event: ' + e,
)
:(async () => {
try {
:(await r).once('abort', t)
} catch (e) { }
}))()
}
return r
(r.cacheOptions = { ...r.cacheOptions }),
!0 === r.dnsCache)
)

r.dnsCache = N
else if (!C.default.undefined(r.dnsCache) && !r.dnsCache.lookup)
throw new TypeError(
'Parameter `dnsCache` must be a CacheableLookup instance or a boolean, got ' +
C.default(r.dnsCache),
)

C.default.number(r.timeout)
? (r.timeout = { request: r.timeout })
: n && r.timeout !== n.timeout
?

(r.timeout = { ...n.timeout, ...r.timeout })

(r.timeout = { ...r.timeout }),

r.context || (r.context = {})
const f = r.hooks === (null == n ? void 0 : n.hooks)
r.hooks = [...r.hooks ]
for (const e of t.knownHookEvents)
if (e in r.hooks) {
if (!C.default.array(r.hooks[e]))
throw new TypeError(
'Parameter \`${e}\` must be an Array, got ${C.default(

r.hooks[e],
)}',
)

r.hooks[e] = [...r.hooks[e]]
} else r.hooks[e] = []
if (n && !f)
for (const e of t.knownHookEvents) {
0 !== n.hooks[e].length &&
(r.hooks[e] = [...n.hooks[e], ...r.hooks[e]])
}
if (f)
'family' in r &

v.default(
''"options.family" was never documented, please use "options.dnsLookupIpVersion"'',
),

(null == n ? void 0 : n.https) &&

(r.https = [ ...n.https, ...r.https ]),
'rejectUnauthorized' in r &

v.default(
''"options.rejectUnauthorized" is now deprecated, please use "options.https.rejectUnauthorized"'',
),
'checkServerIdentity' in r &&
  v.default(
    ""options.checkServerIdentity" was never documented, please use "options.https.checkServerIdentity",
  ),
'ca' in r &&
  v.default(
    ""options.ca" was never documented, please use "options.https.certificateAuthority",
  ),
'key' in r &&
  v.default(
    ""options.key" was never documented, please use "options.https.key",
  ),
'cert' in r &&
  v.default(
    ""options.cert" was never documented, please use "options.https.certificate",
  ),
'passphrase' in r &&
  v.default(
    ""options.passphrase" was never documented, please use "options.https.passphrase",
  ),
'pfx' in r &&
  v.default(
    ""options.pfx" was never documented, please use "options.https.pfx",
  ),
'followRedirects' in r)
)
throw new TypeError(
  'The `followRedirects` option does not exist. Use `followRedirect` instead.',
)
if (r.agent)
  for (const e in r.agent)
    if ('http' !== e && 'https' !== e && 'http2' !== e)
      throw new TypeError(
        `Expected the `options.agent`\' properties to be `\http\`, `\https\` or `\http2\`, got `\${e}\``,
      )
return (r.maxRedirects =
  null !== (g = r.maxRedirects) && void 0 !== g ? g : 0),
  t.setNonEnumerableProperties([n, l], r),
  S.default(r, n)
)
)
_lockWrite() { 
  const e = () => {
    throw new TypeError('The payload has been already provided')
  }
  ;(this.write = e), (this.end = e) 
}
_unlockWrite() {
    (this.write = super.write), (this.end = super.end)
}

async _finalizeBody() {
    const { options: e } = this,
    { headers: r } = e,
    A = C.default.undefined(e.form),
    o = C.default.undefined(e.json),
    s = C.default.undefined(e.body),
    a = A || o || s,
    c =
        t.withoutBody.has(e.method) &&
        !(e.method === 'GET' && e.allowGetBody)
    if (((this._cannotHaveBody = c), a)) {
        if (c)
            throw new TypeError(
                `The \`${e.method}\` method cannot be used with a body`,
            )
        if ([s, A, o].filter((e) => e).length > 1)
            throw new TypeError(
                'The `body`, `json` and `form` options are mutually exclusive',
            )
        if (
            s &&
            !e.body instanceof n.Readable) &&
            !C.default.string(e.body) &&
            !C.default.buffer(e.body) &&
            !I.default(e.body)
        )
            throw new TypeError(
                'The `body` option must be a stream.Readable, string or Buffer',
            )
        if (A && !C.default.object(e.form))
            throw new TypeError('The `form` option must be an Object')
    }
    const t = !C.default.string(r['content-type'])
    s
    ? (I.default(e.body) &&
        t &&
        (r['content-type'] =
            'multipart/form-data; boundary=' +
            e.body.getBoundary()),
        (this[H] = e.body))
    : A
    ? (t &&
        (r['content-type'] = 'application/x-www-form-urlencoded'),
        (this[H] = new i.URLSearchParams(e.form).toString()))
    : (t && (r['content-type'] = 'application/json'),

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async _onResponseBase(e) {
  const { options: t } = this,
    { url: r } = t
  :(this[q] = e), t.decompress && (e = h(e))
  const A = e.statusCode,
    n = e
  :(n.statusMessage = n.statusMessage
    ? n.statusMessage
    : s.STATUS_CODES[A]),
    n.url = t.url.toString(),
    (n.requestUrl = this.requestUrl),
    (n.redirectUrls = this.redirects),
    (n.request = this),
    (n.isFromCache = e.fromCache || !1),
    (n.ip = this.ip),
    (n.retryCount = this.retryCount),
    (this[U] = n.isFromCache),
    (this[M] = Number(e.headers['content-length']) || void 0),
    (this[K] = e),
  e.once('end', () => {
    :(this[M] = this[R]),
    this.emit('downloadProgress', this.downloadProgress)
  }).
  e.once('error', (t) => {
    e.destroy(), this._beforeError(new ne(t, this))
  }).
  e.once('aborted', () => {
    this._beforeError(
      new ne(
        {
          name: 'Error',
          message: 'The server aborted pending request',
          code: 'ECONNRESET',
        },
        this,
      ),
    )
  })
}
this.emit('downloadProgress', this.downloadProgress)
const o = e.headers['set-cookie']
if (C.default.object(t.cookieJar) && o) {
  let e = o.map(async (e) => t.cookieJar.setCookie(e, r.toString()))
  t.ignoreInvalidCookies &&
  (e = e.map(async (e) => e.catch(() => {})))
  try {
    await Promise.all(e)
  } catch (e) {
    return void this._beforeError(e)
  }
}
if (t.followRedirect && e.headers.location && V.has(A)) {
  e.resume(), this[F] && (this[T](), delete this[F], this[O]())
  if (
    (!(303 === A && 'GET' !== t.method && 'HEAD' !== t.method) &&
    t.methodRewriting) ||
    (t.method = 'GET'),
    'body' in t && delete t.body,
    'json' in t && delete t.json,
    'form' in t && delete t.form,
    (this[H] = void 0),
    delete t.headers['content-length'],
    this.redirects.length >= t.maxRedirects)
  )
  return void this._beforeError(new $(this))
  try {
    const A = Buffer.from(e.headers.location, 'binary').toString(),
    o = new i.URL(A, r),
    s = o.toString()
    decodeURI(s),
    o.hostname !== r.hostname || o.port !== r.port
      ? ('host' in t.headers && delete t.headers.host,
        'cookie' in t.headers && delete t.headers.cookie,
        'authorization' in t.headers &&
        delete t.headers.authorization,
        (t.username || t.password) &&
        ((t.username = ''), (t.password = '')))
      : ((o.username = t.username), (o.password = t.password)),
    this.redirects.push(s),
    (t.url = o)
    for (const e of t.hooks.beforeRedirect) await e(t, n)
    this.emit('redirect', n, t), await this._makeRequest()
  } catch (e) {
    return void this._beforeError(e)
  }
} else if (t.isStream && t.throwHttpErrors && !b.isResponseOk(n))
this._beforeError(new ee(n))
else {
  e.on('readable', () => {
    this[G] && this._read()
  }),
  this.on('resume', () => {
    e.resume()
  }),
  this.on('pause', () => {
    e.pause()
  }),
  e.once('end', () => {
    this.push(null)
  }),
  this.emit('response', e)
}
for (const r of this[P])
if (!r.headersSent) {
  for (const A in e.headers) {
    const n = !t.decompress || 'content-encoding' !== A,
    o = e.headers[A]
    n && r.setHeader(A, o)
  }
  r.statusCode = A
}
}
async _onResponse(e) {
  try {
    await this._onResponseBase(e)
  } catch (e) {
    this._beforeError(e)
  }
}
_onRequest(e) {
  const { options: t } = this,
  { timeout: r, url: A } = t
  g.default(e), (this[T] = B.default(e, r, A))
  const n = t.cache ? 'cacheableResponse' : 'response'
  e.once(n, (e) => {
    this._onResponse(e)
  }),
  e.once('error', (t) => {
    var r
    e.destroy()
    null === (r = e.res) ||
    void 0 === r ||
    r.removeAllListeners('end'),
    (t =
t instanceof B.TimeoutError
? new Ae(t, this.timings, this)
: new Z(t.message, t, this)),
this._beforeError(t)
)},
(this[O] = E.default(e, this, ie)),
(this[F] = e),
this.emit('uploadProgress', this.uploadProgress)
const o = this[H],
i = 0 === this.redirects.length ? this : e
C.default.nodeStream(o)
? (o.pipe(i),
o.once('error', (e) => {
  this._beforeError(new re(e, this))
}))
: (this._unlockWrite(),
C.default.undefined(o)
? (this._cannotHaveBody || this._noPipe) &&
  (i.end(), this._lockWrite())
: (this._writeRequest(o, void 0, () => {}),
i.end(),
this._lockWrite()),
this.emit('request', e)
}
async _createCacheableRequest(e, t) {
return new Promise((r, A) => {
  let n
  Object.assign(t, y.default(e)), delete t.url
  const o = X.get(t.cache)(t, async (e) => {
    (e._readableState.autoDestroy = !1),
    n && (await n).emit('cacheableResponse', e),
r(e)
  })
  ;(t.url = e),
o.once('error', A),
o.once('request', async (e) => {
    (n = e), r(n)
  })
})
}
async _makeRequest() {
var e, t, r, A, n
const { options: o } = this,
  [ headers: i ] = o
for (const e in i)
  if (C.default.undefined(i[e])) delete i[e]
else if (C.default.null_(i[e]))
  throw new TypeError(
Use `undefined` instead of `null` to delete the `${e}` header.

if (o.decompress &&
    C.default.undefined(i['accept-encoding']) &&
    (i['accept-encoding'] = W
     ? 'gzip, deflate, br'
     : 'gzip, deflate'),
    o.cookieJar)
)

const e = await o.cookieJar.getCookieString(o.url.toString())
C.default.nonEmptyString(e) && (o.headers.cookie = e)

for (const e of o.hooks.beforeRequest) {
    const t = await e(o)
    if (!C.default.undefined(t)) {
        o.request = () => t
        break
    }
}

o.body && this[H] !== o.body && (this[H] = o.body)
const { agent: a, request: g, timeout: l, url: h } = o
if (o.dnsCache && !('lookup' in o) && (o.lookup = o.dnsCache.lookup),
    'unix' === h.hostname)
)

const e = /^(?<socketPath>.+?):(?<path>.+?)$/.exec(
    `${h.pathname}${h.search}`,
)
if (null == e ? void 0 : e.groups) {
    const { socketPath: t, path: r } = e.groups
    Object.assign(o, { socketPath: t, path: r, host: '' })
}

const d = 'https:' === h.protocol
let f
const I = null !== (e = o.request) && void 0 !== e ? e : f,
    E = o.cache ? this._createCacheableRequest : I,
a &;& !o.http2 && (o.agent = a[d ? 'https' : 'http'])
(o[F] = I),
    delete o.request,
delete o.timeout
const B = o
if ((B.shared =
    null === (t = o.cacheOptions) || void 0 === t
    ? void 0
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(B.cacheHeuristic =
  null === (r = o.cacheOptions) || void 0 === r
  ? void 0
  : r.cacheHeuristic),
(B.immutableMinTimeToLive =
  null === (A = o.cacheOptions) || void 0 === A
  ? void 0
  : A.immutableMinTimeToLive),
(B.ignoreCargoCult =
  null === (n = o.cacheOptions) || void 0 === n
  ? void 0
  : n.ignoreCargoCult),
void 0 !== o.dnsLookupIpVersion)
}
try {
  B.family = D.dnsLookupIpVersionToFamily(o.dnsLookupIpVersion)
} catch (e) {
  throw new Error('Invalid `dnsLookupIpVersion` option value')
}
o.https &&
  ('rejectUnauthorized' in o.https &&
   (B.rejectUnauthorized = o.https.rejectUnauthorized),
   o.https.checkServerIdentity &&
   (B.checkServerIdentity = o.https.checkServerIdentity),
   o.https.certificateAuthority &&
   (B.ca = o.https.certificateAuthority),
   o.https.certificate && (B.cert = o.https.certificate),
   o.https.key && (B.key = o.https.key),
   o.https.passphrase && (B.passphrase = o.https.passphrase),
   o.https.pfx && (B.pfx = o.https.pfx))
try {
  let e = await E(h, B)
  C.default.undefined(e) && (e = f(h, B)),
  (o.request = g),
  (o.timeout = l),
  (o.agent = a),
  o.https &&
  ('rejectUnauthorized' in o.https &&
   delete B.rejectUnauthorized,
   o.https.checkServerIdentity && delete B.checkServerIdentity,
   o.https.certificateAuthority && delete B.ca,
   o.https.certificate && delete B.cert,
   o.https.key && delete B.key,
   o.https.passphrase && delete B.passphrase,
   o.https.pfx && delete B.pfx),
  (y = e),
  C.default.object(y) && !(\'statusCode\' in y)
async _error(e) {
  try {
    for (const t of this.options.hooks.beforeError) e = await t(e)
  } catch (t) {
    e = new Z(t.message, t, this)
  }
  this.destroy(e)
}

async _beforeError(e) {
  if (this[Y]) return
  const { options: t } = this,
    r = this.retryCount + 1
  ;(this[Y] = !0), e instanceof Z || (e = new Z(e.message, e, this))
  const A = e,
    [ response: n ] = A
  ;(async () => {
    if (n && !n.body) {
      n.setEncoding(this._readableState.encoding)
      try {
        ;(n.rawBody = await Q.default(n)),
        (n.body = n.rawBody.toString())
      } catch (e) {}
    }
    if (0 !== this.listenerCount('retry')) {
      let o
      try {
        let e
        n &&
        'retry-after' in n.headers &&
        ((e = Number(n.headers['retry-after'])),
        Number.isNaN(e)
          ? ((e = Date.parse(n.headers['retry-after']) - Date.now()),
          o{
        }catch(t){
          e = new Z(t.message, t, this)
        }
      }
      if (o){
        this.destroy(e)
      }
    }
  })
}
if (e <= 0 && (e = 1))
: (e *= 1e3)),
(o = await t.retry.calculateDelay(
    attemptCount: r,
    retryOptions: t.retry,
    error: A,
    retryAfter: e,
    computedValue: k.default(
        attemptCount: r,
        retryOptions: t.retry,
        error: A,
        retryAfter: e,
        computedValue: 0,
    )
),
))
} catch (e) {
    return void this._error(new Z(e.message, e, this))
}
if (o) {
    const t = async () => {
        try {
            for (const e of this.options.hooks.beforeRetry)
                await e(this.options, A, r)
        } catch (t) {
            return void this._error(new Z(t.message, e, this))
        }
        this.destroyed || (this.destroy(), this.emit('retry', r, e))
    }
    return void (this[z] = setTimeout(t, o))
}
this._error(A)
})()

_read() {
    this[G] = !0
    const e = this[K]
    if (e && !this[Y]) {
        let t
        for (e.readableLength && (this[G] = !1);
            null !== (t = e.read());
        ) {
            ;(this[R] += t.length), (this[j] = !0)
            const e = this.downloadProgress
            e.percent < 1 && this.emit('downloadProgress', e), this.push(t)
        }
    }
```javascript
const A = () => {
  this._writeRequest(e, t, r)
}

this.requestInitialized ? A() : this[J].push(A)

_writeRequest(e, t, r) {
  this[F].destroyed ||
  (this._progressCallbacks.push(() => {
    this[L] += Buffer.byteLength(e, t)
    const r = this.uploadProgress
    r.percent < 1 && this.emit('uploadProgress', r)
  }),
  this[F].write(e, t, (e) => {
    e ||
    0 === this._progressCallbacks.length ||
    this._progressCallbacks.shift(),
    r(e)
  }))
}

_final(e) {
  const t = () => {
    for (; 0 !== this._progressCallbacks.length; )
    this._progressCallbacks.shift()
    F in this
    ? this[F].destroyed
    ? e()
    : this[F].end(t) => {
      t ||
      ((this[x] = this[L]),
      this.emit('uploadProgress', this.uploadProgress),
      this[F].emit('upload-complete'),
      e(t)
    )
  }
  e()
}

this.requestInitialized ? t() : this[J].push(t)

_destroy(e, t) {
  var r
  :(this[Y] = !0),
  clearTimeout(this[z]),
  F in this &&
  (this[T](),
  (null === (r = this[K]) || void 0 === r
  ? void 0
```
r.complete) || this[F].destroy()),
null === e ||
C.default.undefined(e) ||
e instanceof Z ||
(e = new Z(e.message, e, this)),
t(e)
}
get _isAboutToError() {
    return this[Y]
}
get ip() {
    var e
    return null === (e = this[F]) || void 0 === e
        ? void 0
        : e.socket.remoteAddress
}
get aborted() {
    var e, t, r
    return (null !==
            (t = null === (e = this[F]) || void 0 === e
                ? void 0
                : e.destroyed) && void 0 !== t
                ? t
                : this.destroyed) &&
        !(null === (r = this[q]) || void 0 ? void 0 : r.complete)
    }
}
get socket() {
    var e
    return null === (e = this[F]) || void 0 === e ? void 0 : e.socket
}
get downloadProgress() {
    let e
    return (e = this[M] ? this[R] / this[M] : this[M] === this[R] ? 1 : 0),
        { percent: e, transferred: this[R], total: this[M] }  
    }
}
get uploadProgress() {
    let e
    return (e = this[x] ? this[L] / this[x] : this[x] === this[L] ? 1 : 0),
        { percent: e, transferred: this[L], total: this[x] }  
    }
}
get timings() {
```javascript
var e
return null === (e = this[F]) || void 0 === e ? void 0 : e.timings
}

get isFromCache() {
    return this[U]
}

pipe(e, t) {
    if (this[j])
        throw new Error(
            'Failed to pipe. The response has been emitted already.',
        )
    return (e instanceof a.ServerResponse && this[P].add(e), super.pipe(e, t))
}

unpipe(e) {
    return (e instanceof a.ServerResponse && this[P].delete(e),
        super.unpipe(e),
        this
    )
}
}
}

t.default = se,

11338: (e, t) => {
    'use strict'
    Object.defineProperty(t, '_esModule', { value: !0 }),
    (t.dnsLookupIpVersionToFamiliy = t.isDnsLookupIpVersion = void 0)
    const r = { auto: 0, ipv4: 4, ipv6: 6 }
    ;(t.isDnsLookupIpVersion = (e) => e in r),
    (t.dnsLookupIpVersionToFamiliy = (e) => {
        if (t.isDnsLookupIpVersion(e)) return r[e]
        throw new Error('Invalid DNS lookup IP version')
    })
},

78586: (e, t, r) => {
    'use strict'
    Object.defineProperty(t, '_esModule', { value: !0 })
    const A = r(35747),
    n = r(31669),
    o = r(7966),
    i = r(2920),
    s = n.promisify(A.stat)
    t.default = async (e, t) => {
        if (t && 'content-length' in t) return Number(t['content-length'])
        if (!e) return 0
        if (o.default.string(e)) return Buffer.byteLength(e)
```
if (o.default.buffer(e)) return e.length
if (i.default(e)) return n.promisify(e.getLength.bind(e))()
if (e instanceof A.ReadStream) {
    const { size: t } = await s(e.path)
    return t
}
}
]
},
57854: (e, t) => {
    'use strict'
    Object.defineProperty(t, '__esModule', { value: !0 })
    t.default = async (e) => {
        const t = []
        let r = 0
        for await (const A of e) t.push(A), (r += Buffer.byteLength(A))
        return Buffer.isBuffer(t[0])
            ? Buffer.concat(t, r)
            : Buffer.from(t.join(''))
    }
},
2920: (e, t, r) => {
    'use strict'
    Object.defineProperty(t, '__esModule', { value: !0 })
    const A = r(7966)
    t.default = (e) =>
        A.default.nodeStream(e) && A.default.function_(e.getBoundary)
},
38206: (e, t) => {
    'use strict'
    Object.defineProperty(t, '__esModule', { value: !0 }),
    (t.isResponseOk = void 0),
    (t.isResponseOk = (e) => {
        const { statusCode: t } = e,
            r = e.request.options.followRedirect ? 299 : 399
        return (t >= 200 && t <= r) || 304 === t
    })
},
82524: (e, t, r) => {
    'use strict'
    Object.defineProperty(t, '__esModule', { value: !0 })
    const A = r(78835),
        n = ['protocol', 'host', 'hostname', 'port', 'pathname', 'search']
    t.default = (e, t) => {
        var r, o
        if (t.path) {
            if (t.pathname)
                throw new TypeError(
                    'Parameters `path` and `pathname` are mutually exclusive.',
                );
            if (t.pathname)
                throw new TypeError(
                    'Parameters `path` and `pathname` are mutually exclusive.',
                );
        }
    }
}
for (const t of r) e.off(t, A[t])
})
}

44947: (e, t, r) => {
'use strict'
Object.defineProperty(t, '__esModule', { value: !0 }),(t.TimeoutError = void 0)
const A = r(11631),
n = r(70148),
o = Symbol('reentry'),
i = () => { }
class s extends Error {
constructor(e, t) {
  super('Timeout awaiting "$[t]" for $[e]ms'),
  (this.event = t),
  (this.name = 'TimeoutError'),
  (this.code = 'ETIMEDOUT')
}
}
(t.TimeoutError = s),
(t.default = (e, t, r) => {
  if (o in e) return i
  e[o] = !0
  const a = [],
  { once: c, unhandleAll: g } = n.default(),
l = (e, t, r) => {
    var A
    const n = setTimeout(t, e, e, r)
    null === (A = n.unref) || void 0 === A || A.call(n)
    const o = () => {
      clearTimeout(n)
    }
    return a.push(o), o
  },
  { host: u, hostname: h } = r,
P = (t, r) => {
  e.destroy(new s(t, r))
},
d = () => {
  for (const e of a) e()
g()
}
if (
  (e.once('error', (t) => {
    if ((d(), 0 === e.listenerCount('error'))) throw t
  })),
e.once('close', d),
c(e, 'response', (e) => {
  c(e, 'end', d)
}),
void 0 !== t.request && l(t.request, p, 'request'),
void 0 !== t.socket)
} {
const r = () => {
  p(t.socket, 'socket')
}
e.setTimeout(t.socket, r),
void 0 !== t.socket)
}) {
const r = () => {
  p(t.socket, 'socket')
}
e.setTimeout(t.socket, r),
a.push() => {
  e.removeListener('timeout', r)
})
}

return (c(e, 'socket', (n) => {
  var o
  const { socketPath: i } = e
  if (n.connecting) {
    const e = Boolean(
      null != i
        ? i
        : 0 !==
            A.isIP(
              null !== (o = null != h ? h : u) && void 0 !== o
                ? o
                : ",",
            ),
        )
    if ( void 0 !== t.lookup &&
        !e &&
        void 0 === n.address().address
    ) {
      const e = l(t.lookup, p, 'lookup')
      c(n, 'lookup', e)
    }
    if (void 0 !== t.connect) {
      const r = () => l(t.connect, p, 'connect')
      e
        ? c(n, 'connect', r())
        : c(n, 'lookup', (e) => {
          null === e && c(n, 'connect', r())
        })
    }
    void 0 !== t.secureConnect &&
    'https:' === r.protocol &&
    c(n, 'connect', () => {

const e = l(t.secureConnect, p, 'secureConnect')
c(n, 'secureConnect', e)
})
}
if (void 0 !== t.send) {
const r = () => l(t.send, p, 'send')
n.connecting
? c(n, 'connect', () => {
    c(e, 'upload-complete', r())
})
: c(e, 'upload-complete', r())
}
}

void 0 !== t.response &
c(e, 'upload-complete', () => {
    const r = l(t.response, p, 'response')
c(e, 'response', r)
}),
d
}
}
}
70148: (e, t) => {
'use strict'
Object.defineProperty(t, '__esModule', { value: !0 }),
t.default = () => {
    const e = []
    return {
        once(t, r, A) {
            t.once(r, A), e.push({ origin: t, event: r, fn: A })
        },
        unhandleAll() {
            for (const t of e) {
                const { origin: e, event: r, fn: A } = t
                e.removeListener(r, A)
            }
            e.length = 0
        },
    }
},
}
50116: (e, t, r) => {
'use strict'
Object.defineProperty(t, '__esModule', { value: !0 })
const A = r(7966)
t.default = (e) => {
    const t = {
        protocol: (e = e).protocol,
hostname:
A.default.string(e.hostname) && e.hostname.startsWith('[')
? e.hostname.slice(1, -1)
: e.hostname,
host: e.host,
hash: e.hash,
search: e.search,
pathname: e.pathname,
href: e.href,
path: `\${e.pathname || ''}\${e.search || ''}`,
}
return (A.default.string(e.port) &&
0 !== e.port.length &&
(t.port = Number(e.port)),
(e.username || e.password) &&
(t.auth = `\${e.username || ''}:${e.password || ''}`).
t)
}
},
85551: (e, t) => {
'use strict'
Object.defineProperty(t, '__esModule', { value: !0 })
t.default = class {
constructor() {
 ;(this.weakMap = new WeakMap()), (this.map = new Map())
}
set(e, t) {
'object' == typeof e ? this.weakMap.set(e, t) : this.map.set(e, t)
}
get(e) {
return 'object' == typeof e ? this.weakMap.get(e) : this.map.get(e)
}
has(e) {
return 'object' == typeof e ? this.weakMap.has(e) : this.map.has(e)
}
}
},
39226: function (e, t, r) {
'use strict'
var A =
(this && this.__createBinding) ||
(Object.create
? function (e, t, r, A) {
void 0 === A &&& (A = r),
Object.defineProperty(e, A, {
enumerable: !0,
get: function () {
    return t[r]
},
)
:
function (e, t, r, A) {
    void 0 === A && (A = r), (e[A] = t[r])
}),

n =
(this && this.__exportStar) ||
function (e, t) {
for (var r in e)
    'default' !== r ||
    Object.prototype.hasOwnProperty.call(t, r) ||
    A(t, e, r)
}
Object.defineProperty(t, '__esModule', { value: !0 }),
(t.defaultHandler = void 0)
const o = r(7966),
i = r(81588),
s = r(93576),
a = r(9048),
c = r(9743),
g = {
    RequestError: i.RequestError,
    CacheError: i.CacheError,
    ReadError: i.ReadError,
    HTTPError: i.HTTPError,
    MaxRedirectsError: i.MaxRedirectsError,
    TimeoutError: i.TimeoutError,
    ParseError: i.ParseError,
    CancelError: i.CancelError,
    UnsupportedProtocolError: i.UnsupportedProtocolError,
    UploadError: i.UploadError,
},
l = async (e) =>
    new Promise((t) => {
        setTimeout(t, e)
    }),
{ normalizeArguments: u } = a.default,
h = (...e) => {
    let t
    for (const r of e) t = u(void 0, r, t)
return t
},
p = (e) => (e.isStream ? new a.default(void 0, e) : i.default(e)),
d = (e) => 'defaults' in e && 'options' in e.defaults,
C = ['get', 'post', 'put', 'patch', 'head', 'delete']
t.defaultHandler = (e, t) => t(e)
const f = (e, t) => {
    if (e) for (const r of e) r(t)
},
I = (e) => {
    (e._rawHandlers = e.handlers),
    (e.handlers = e.handlers.map((e) => t => (t, r) => {
        let A
        const n = e(t, (e) => ((A = r(e)), A))
        if (n !== A && !t.isStream && A) {
            const e = n,
                { then: t, catch: r, finally: o } = e
            Object.setPrototypeOf(e, Object.getPrototypeOf(A)),
            Object.defineProperties(
                e,
                Object.getOwnPropertyDescriptors(A),
            ),
            (e.then = t),
            (e.catch = r),
            (e.finally = o)
        }
        return n
    }))
}):
const r = (t, r, A) => {
    var n, c
    let g = 0
    const l = (t) => e.handlers[g++] && e.handlers.length > p : 1)
    if (o.default.plainObject(t)) {
        const e = { ...t, ...r }
        a.setNonEnumerableProperties([t, r], e), (r = e), (t = void 0)
    }
    try {
        let o
        try {
            f(e.options.hooks.init, r),
            f(
                null === (n = null === r ? void 0 : r.hooks) ||
                void 0 === n
            ? void 0
            : n.init,
            r,
        )
        catch (e) {
            o = e
        }
    const s = u(t, r, null !== A ? A : e.options)
    if (((s[a.klsNormalizedAlready] = !0), o))
"}
throw new i.RequestError(o.message, o, s)
return l(s)
} catch (t) {
  if (null !== r ? void 0 : r.isStream) throw t
  return s.default(
    t,
    e.options.hooks.beforeError,
    null === (c = null !== r ? void 0 : r.hooks) || void 0 === c ? void 0 : c.beforeError,
  )
}
}
}
r.extend = (...r) => {
  const A = [e.options]
  let n,
      o = [...e._rawHandlers]
  for (const e of r)
    d(e)
      ? (A.push(e.defaults.options),
          o.push(...e.defaults._rawHandlers),
          (n = e.defaults.mutableDefaults))
        : (A.push(e),
            'handlers' in e && o.push(...e.handlers),
            (n = e.mutableDefaults))
  return {
    options: h(...A),
    handlers: o,
    mutableDefaults: Boolean(n),
  }
}
const A = async function* (t, A) {
  let n = u(t, A, e.options)
  n.resolveBodyOnly = !1
  const i = n.pagination
  if (!o.default.object(i))
    throw new TypeError('`options.pagination` must be implemented')
  const s = []
  let { countLimit: a } = i,
      c = 0
  for (; c < i.requestLimit; ) {
    0 !== c && (await l(i.backoff))
    const e = await r(void 0, void 0, n),
      t = await i.transform(e),
A = []
for (const e of t)
    if (i.filter(e, s, A)) {
        if (!i.shouldContinue(e, s, A)) return
        if (yield e,
            i.stackAllItems && s.push(e),
            A.push(e),
            --a <= 0)
            return
        )
    }
const o = i.paginate(e, s, A)
if (!1 === o) return
o === e.request.options
? (n = e.request.options)
: void 0 !== o && (n = u(void 0, o, n)),
c++
}
);
((r.paginate = A).all = async (e, t) => {
    const r = []
    for await (const n of A(e, t)) r.push(n)
    return r
}),
(r.paginate.each = A),
(r.stream = (e, t) => r(e, { ...t, isStream: !0 })),
for (const e of C)
    (r[e] = (t, A) => r(t, { ...A, method: e })),
    (r.stream[e] = (t, A) =>
        r(t, { ...A, method: e, isStream: !0 }))
return (Object.assign(r, g),
    Object.defineProperty(r, 'defaults', {
        value: e.mutableDefaults ? e : c.default(e),
        writable: e.mutableDefaults,
        configurable: e.mutableDefaults,
        enumerable: !0,
    }),
    (r.mergeOptions = h),
    r)
);(t.default = I), n(r(69022), t)
(this && this.__createBinding) ||
(Object.create
? function (e, t, r, A) {
  void 0 === A && (A = r),
  Object.defineProperty(e, A, {
    enumerable: '0',
    get: function () {
      return t[r]
    },
  })
})

: function (e, t, r, A) {
  void 0 === A && (A = r), (e[A] = t[r])
},

n =
(this && this.__exportStar) ||
function (e, t) {
  for (var r in e)
    'default' === r ||
    Object.prototype.hasOwnProperty.call(t, r) ||
    A(t, e, r)
}

Object.defineProperty(t, '__esModule', { value: !0 })
const o = r(78835),
i = r(39226),
s = {
  options: {
    method: 'GET',
    retry: {
      limit: 2,
      methods: ['GET', 'PUT', 'HEAD', 'DELETE', 'OPTIONS', 'TRACE'],
      statusCodes: [408, 413, 429, 500, 502, 503, 504, 521, 522, 524],
      errorCodes: [
        'ETIMEDOUT',
        'ECONNRESET',
        'EADDRINUSE',
        'ECONNREFUSED',
        'EPIPE',
        'ENOTFOUND',
        'ENETUNREACH',
        'EAI_AGAIN',
      ],
      maxRetryAfter: void 0,
      calculateDelay: ({ computedValue: e }) => e,
    },
    timeout: {},
    headers: {
      'user-agent': 'got (https://github.com/sindresorhus/got)',
    }
  }
}
countLimit: 1 / 0,
backoff: 0,
requestLimit: 1e4,
stackAllItems: !0,
}

parseJson: (e) => JSON.parse(e),
stringifyJson: (e) => JSON.stringify(e),
cacheOptions: {}
}

handlers: [i.defaultHandler],
mutableDefaults: !1,
}

a = i.default(s);
(t.default = a),
(e.exports = a),
(e.exports.default = a),
(e.exports.__esModule = !0),
n(r(39226), t),
n(r(81588), t)
}

69022: (e, t) => {
'
use strict'
Object.defineProperty(t, '__esModule', { value: !0 })
}

9743: (e, t, r) => {
'
use strict'
Object.defineProperty(t, '__esModule', { value: !0 })
const A = r(7966)
t.default = function e(t) {
  for (const r of Object.values(t))
    A.default.plainObject(r) || A.default.array(r) && e(r)
  return Object.freeze(t)
}
}

54595: (e, t) => {
'
use strict'
Object.defineProperty(t, '__esModule', { value: !0 })
const r = new Set()
t.default = (e) => {
  r.has(e) ||
  r.add(e),
  process.emitWarning('Got: ' + e, { type: 'DeprecationWarning' })
}
}

74988: (e) => {
e.exports &
  (e.exports = function () {
    var e = 3,
function i(e, t) {
void 0 !== t && (t = 0)
var r = e.charCodeAt(t)
if (55296 <= r && r <= 56319 && t < e.length - 1) {
var A = r
return 56320 <= (n = e.charCodeAt(t + 1)) && n <= 57343
? 1024 * (A - 55296) + (n - 56320) + 65536
: A
}
if (56320 <= r && r <= 57343 && t >= 1) {
var n = r
return 55296 <= (A = e.charCodeAt(t - 1)) && A <= 56319
? 1024 * (A - 55296) + (n - 56320) + 65536
: n
}
return r
}

function s(i, s, a) {
var c = [i].concat(s).concat([a]),
g = c[c.length - 2],
l = a,
u = c.lastIndexOf(14)
if (u > 1 &&
c.slice(1, u).every(function (t) {
  return t == e
})) &&
-1 == [e, A, o].indexOf(i)
)
return 2
var h = c.lastIndexOf(t)
if (h > 0 &&
c.slice(1, h).every(function (e) {
  return e == t
})) &&
-1 == [r, t].indexOf(g)
)
return c.filter(function (e) {
  return e == t
}).length %
2 ==
1
if (0 == g && 1 == l) return 0
if (2 == g || 0 == g || 1 == g)
    return 14 == l &&
        s.every(function (t) {
            return t == e
        })
    ? 2
    : 1
if (2 == l || 0 == l || 1 == l) return 1
if (6 == g && (6 == l || 9 == l || 10 == l)) return 0
if (!((9 != g && 7 != g) || (7 != l && 8 != l))) return 0
if ((10 == g || 8 == g) && 8 == l) return 0
if (l == e || 15 == l) return 0
if (5 == l) return 0
if (g == r) return 0
var p = -1 != c.indexOf(e) ? c.lastIndexOf(e) - 1 : c.length - 2
return (-1 != [A, o].indexOf(c[p]) &&
    c.slice(p + 1, -1).every(function (t) {
        return t == e
    }) &&
    14 == l) ||
    (15 == g && -1 != [n, o].indexOf(l))
? 0
: -1 != s.indexOf(t)
? 2
: g == t && l == t
? 0
: 1
}

function a(i) {
    return (1536 <= i && i <= 1541) ||
    1757 == i ||
    1807 == i ||
    2274 == i ||
    3406 == i ||
    69821 == i ||
    (70082 <= i && i <= 70083) ||
    72250 == i ||
    (72326 <= i && i <= 72329) ||
    73030 == i
? r
: 13 == i
? 0
: 10 == i
? 1
: (0 <= i && i <= 9) ||
(11 <= i && i <= 12) ||
(14 <= i && i <= 31) ||
(127 <= i && i <= 159) ||
173 == i ||
1564 == i ||
6158 == i ||
8203 == i ||
(8206 <= i && i <= 8207) ||
8232 == i ||
8233 == i ||
(8234 <= i && i <= 8238) ||
(8288 <= i && i <= 8292) ||
8293 == i ||
(8294 <= i && i <= 8303) ||
(55296 <= i && i <= 57343) ||
65279 == i ||
(65520 <= i && i <= 65528) ||
(65529 <= i && i <= 65531) ||
(113824 <= i && i <= 113827) ||
(119155 <= i && i <= 119162) ||
917504 == i ||
917505 == i ||
(917506 <= i && i <= 917535) ||
(917632 <= i && i <= 917759) ||
(918e3 <= i && i <= 921599) ||
? 2
: (768 <= i && i <= 879) ||
(1155 <= i && i <= 1159) ||
(1160 <= i && i <= 1161) ||
(1425 <= i && i <= 1469) ||
1471 == i ||
(1473 <= i && i <= 1474) ||
(1476 <= i && i <= 1477) ||
1479 == i ||
(1552 <= i && i <= 1562) ||
(1611 <= i && i <= 1631) ||
1648 == i ||
(1750 <= i && i <= 1756) ||
(1759 <= i && i <= 1764) ||
(1767 <= i && i <= 1768) ||
(1770 <= i && i <= 1773) ||
1809 == i ||
(1840 <= i && i <= 1866) ||
(1958 <= i && i <= 1968) ||
(2027 <= i && i <= 2035) ||
(2070 <= i && i <= 2073) ||
(2075 <= i && i <= 2083) ||
(2085 <= i && i <= 2087) ||
4226 == i ||
(4229 <= i && i <= 4230) ||
4237 == i ||
4253 == i ||
(4957 <= i && i <= 4959) ||
(5906 <= i && i <= 5908) ||
(5938 <= i && i <= 5940) ||
(5970 <= i && i <= 5971) ||
(6002 <= i && i <= 6003) ||
(6068 <= i && i <= 6069) ||
(6071 <= i && i <= 6077) ||
6086 == i ||
(6089 <= i && i <= 6099) ||
6109 == i ||
(6155 <= i && i <= 6157) ||
(6277 <= i && i <= 6278) ||
6313 == i ||
(6432 <= i && i <= 6434) ||
(6439 <= i && i <= 6440) ||
6450 == i ||
(6457 <= i && i <= 6459) ||
(6679 <= i && i <= 6680) ||
6683 == i ||
6742 == i ||
(6752 <= i && i <= 6750) ||
6754 == i ||
(6757 <= i && i <= 6764) ||
(6771 <= i && i <= 6780) ||
6783 == i ||
(6832 <= i && i <= 6845) ||
6846 == i ||
(6912 <= i && i <= 6915) ||
6966 <= i && i <= 6970) ||
6972 == i ||
6978 == i ||
(7019 <= i && i <= 7027) ||
(7040 <= i && i <= 7041) ||
(7074 <= i && i <= 7077) ||
(7080 <= i && i <= 7081) ||
(7083 <= i && i <= 7085) ||
7142 == i ||
(7144 <= i && i <= 7145) ||
7149 == i ||
(7151 <= i && i <= 7153) ||
(7212 <= i && i <= 7219) ||
(7222 <= i && i <= 7223) ||
(7376 <= i && i <= 7378) ||
(7380 <= i && i <= 7392) ||
(7394 <= i && i <= 7400) ||
7405 == i ||
7412 == i ||
(7416 <= i && i <= 7417) ||
(7616 <= i && i <= 7673) ||
(7675 <= i && i <= 7679) ||
8204 == i ||
(8400 <= i && i <= 8412) ||
(8413 <= i && i <= 8416) ||
8417 == i ||
(8418 <= i && i <= 8420) ||
(8421 <= i && i <= 8432) ||
(11503 <= i && i <= 11505) ||
11647 == i ||
(11744 <= i && i <= 11775) ||
(12330 <= i && i <= 12333) ||
(12334 <= i && i <= 12335) ||
(12441 <= i && i <= 12442) ||
42607 == i ||
(42608 <= i && i <= 42610) ||
(42612 <= i && i <= 42621) ||
(42654 <= i && i <= 42655) ||
(42736 <= i && i <= 42737) ||
43010 == i ||
43014 == i ||
43019 == i ||
(43045 <= i && i <= 43046) ||
(43204 <= i && i <= 43205) ||
(43232 <= i && i <= 43249) ||
(43302 <= i && i <= 43309) ||
(43335 <= i && i <= 43345) ||
(43392 <= i && i <= 43394) ||
43443 == i ||
(43446 <= i && i <= 43449) ||
43452 == i ||
43493 == i ||
(43561 <= i && i <= 43566) ||
(43569 <= i && i <= 43570) ||
(43573 <= i && i <= 43574) ||
43587 == i ||
43596 == i ||
43644 == i ||
43696 == i ||
(43698 <= i && i <= 43700) ||
(43703 <= i && i <= 43704) ||
(43710 <= i && i <= 43711) ||
43713 == i ||
(43756 <= i && i <= 43757) ||
43766 == i ||
44005 == i ||
44008 == i ||
44013 == i ||
64286 == i ||
(65024 <= i && i <= 65039) ||
(65056 <= i && i <= 65071) ||
(65438 <= i && i <= 65439) ||
66045 == i ||
66272 == i ||
(66422 <= i && i <= 66426) ||
(68097 <= i && i <= 68099) ||
(68101 <= i && i <= 68102) ||
(68108 <= i && i <= 68111) ||
(68152 <= i && i <= 68154) ||
68159 == i ||
(68325 <= i && i <= 68326) ||
69633 == i ||
(69688 <= i && i <= 69702) ||
(69759 <= i && i <= 69761) ||
(69811 <= i && i <= 69814) ||
(69817 <= i && i <= 69818) ||
(69888 <= i && i <= 69890) ||
(69927 <= i && i <= 69931) ||
(69933 <= i && i <= 69940) ||
70003 == i ||
(70016 <= i && i <= 70017) ||
(70070 <= i && i <= 70078) ||
(70090 <= i && i <= 70092) ||
(70191 <= i && i <= 70193) ||
70196 == i ||
(70198 <= i && i <= 70199) ||
70206 == i ||
70367 == i ||
(70371 <= i && i <= 70378) ||
(70400 <= i && i <= 70401) ||
70460 == i ||
70462 == i ||
70464 == i ||
70487 == i ||
(70502 <= i && i <= 70508) ||
(70512 <= i && i <= 70516) ||
(70712 <= i && i <= 70719) ||
(70722 <= i && i <= 70724) ||
70726 == i ||
70832 == i ||
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(119163 <= i & i <= 119170) ||
(119173 <= i & i <= 119179) ||
(119210 <= i & i <= 119213) ||
(119362 <= i & i <= 119364) ||
(121344 <= i & i <= 121398) ||
(121403 <= i & i <= 121452) ||
121461 == i ||
121476 == i ||
(121499 <= i & i <= 121503) ||
(121505 <= i & i <= 121519) ||
(122880 <= i & i <= 122886) ||
(122888 <= i & i <= 122904) ||
(122907 <= i & i <= 122913) ||
(122915 <= i & i <= 122916) ||
(122918 <= i & i <= 122922) ||
(125136 <= i & i <= 125142) ||
(125252 <= i & i <= 125258) ||
(917536 <= i & i <= 917631) ||
(917760 <= i & i <= 917999) ||
? e
t : 127462 <= i & i <= 127487
? t
: 2307 == i ||
2363 == i ||
(2366 <= i & i <= 2368) ||
(2377 <= i & i <= 2380) ||
(2382 <= i & i <= 2383) ||
(2434 <= i & i <= 2435) ||
(2495 <= i & i <= 2496) ||
(2503 <= i & i <= 2504) ||
(2507 <= i & i <= 2508) ||
2563 == i ||
(2622 <= i & i <= 2624) ||
2691 == i ||
(2750 <= i & i <= 2752) ||
2761 == i ||
(2763 <= i & i <= 2764) ||
(2818 <= i & i <= 2819) ||
2880 == i ||
(2887 <= i & i <= 2888) ||
(2891 <= i & i <= 2892) ||
3007 == i ||
(3009 <= i & i <= 3010) ||
(3014 <= i & i <= 3016) ||
(3018 <= i & i <= 3020) ||
(3073 <= i & i <= 3075) ||
(3137 <= i & i <= 3140) ||
(3202 <= i & i <= 3203) ||
3262 == i ||
(3264 <= i && i <= 3265) ||
(3267 <= i && i <= 3268) ||
(3271 <= i && i <= 3272) ||
(3274 <= i && i <= 3275) ||
(3330 <= i && i <= 3331) ||
(3391 <= i && i <= 3392) ||
(3398 <= i && i <= 3400) ||
(3402 <= i && i <= 3404) ||
(3458 <= i && i <= 3459) ||
(3536 <= i && i <= 3537) ||
(3544 <= i && i <= 3550) ||
(3570 <= i && i <= 3571) ||
3635 == i ||
3763 == i ||
(3902 <= i && i <= 3903) ||
3967 == i ||
4145 == i ||
(4155 <= i && i <= 4156) ||
(4182 <= i && i <= 4183) ||
4228 == i ||
6070 == i ||
(6078 <= i && i <= 6085) ||
(6087 <= i && i <= 6088) ||
(6435 <= i && i <= 6438) ||
(6441 <= i && i <= 6443) ||
(6448 <= i && i <= 6449) ||
(6451 <= i && i <= 6456) ||
(6681 <= i && i <= 6682) ||
6741 == i ||
6743 == i ||
(6765 <= i && i <= 6770) ||
6916 == i ||
6965 == i ||
6971 == i ||
(6973 <= i && i <= 6977) ||
(6979 <= i && i <= 6980) ||
7042 == i ||
7073 == i ||
(7078 <= i && i <= 7079) ||
7082 == i ||
7143 == i ||
(7146 <= i && i <= 7148) ||
7150 == i ||
(7154 <= i && i <= 7155) ||
(7204 <= i && i <= 7211) ||
(7220 <= i && i <= 7221) ||
7393 == i ||
(71088 <= i && i <= 71089) ||
(71096 <= i && i <= 71099) ||
71102 == i ||
(71216 <= i && i <= 71218) ||
(71227 <= i && i <= 71228) ||
71230 == i ||
71340 == i ||
(71342 <= i && i <= 71343) ||
71350 == i ||
(71456 <= i && i <= 71457) ||
71462 == i ||
(72199 <= i && i <= 72200) ||
72249 == i ||
(72279 <= i && i <= 72280) ||
72343 == i ||
72751 == i ||
72766 == i ||
72873 == i ||
72881 == i ||
72884 == i ||
(94033 <= i && i <= 94078) ||
119142 == i ||
119149 == i
? 5
: (4352 <= i && i <= 4447) || (43360 <= i && i <= 43388)
? 6
: (4448 <= i && i <= 4519) || (55216 <= i && i <= 55238)
? 7
: (4520 <= i && i <= 4607) || (55243 <= i && i <= 55291)
? 8
: 44032 == i ||
44060 == i ||
44088 == i ||
44116 == i ||
44144 == i ||
44172 == i ||
44200 == i ||
44228 == i ||
44256 == i ||
44284 == i ||
44312 == i ||
44340 == i ||
44368 == i ||
44396 == i ||
44424 == i ||
44452 == i ||
44480 == i ||
44508 == i ||
52600 == i ||
52628 == i ||
52656 == i ||
52684 == i ||
52712 == i ||
52740 == i ||
52768 == i ||
52796 == i ||
52824 == i ||
52852 == i ||
52880 == i ||
52908 == i ||
52936 == i ||
52964 == i ||
52992 == i ||
53020 == i ||
53048 == i ||
53076 == i ||
53104 == i ||
53132 == i ||
53160 == i ||
53188 == i ||
53216 == i ||
53244 == i ||
53272 == i ||
53300 == i ||
53328 == i ||
53356 == i ||
53384 == i ||
53412 == i ||
53440 == i ||
53468 == i ||
53496 == i ||
53524 == i ||
53552 == i ||
53580 == i ||
53608 == i ||
53636 == i ||
53664 == i ||
53692 == i ||
53720 == i ||
53748 == i ||
53776 == i ||
53804 == i ||
53832 == i ||
53860 == i ||
53888 == i ||
53916 == i ||
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return (this.nextBreak = function (e, t) {
    if ((void 0 === t && (t = 0), t < 0)) return 0
    if (t >= e.length - 1) return e.length
    for (var r, A, n = a(i(e, t)), o = [], c = t + 1;
        c < e.length;
        c++)
        if (((A = c - 1),
            !(55296 <= (r = e).charCodeAt(A) &&
                r.charCodeAt(A) <= 56319 &&
                56320 <= r.charCodeAt(A + 1) &&
                r.charCodeAt(A + 1) <= 57343
            )))
            var g = a(i(e, c))
            if (s(n, o, g)) return c
            o.push(g)
return e.length
}),
(this.splitGraphemes = function (e) {
  for (var t, r = [], A = 0;
    (t = this.nextBreak(e, A)) < e.length;
    r.push(e.slice(A, t)), (A = t)
  )
  return A < e.length && r.push(e.slice(A)), r
}),
(this.iterateGraphemes = function (e) {
  var t = 0,
    r = {
      next: function () {
        var r, A
        return (A = this.nextBreak(e, t)) < e.length
          ? ((r = e.slice(t, A)), (t = A), { value: r, done: !1 })
          : t < e.length
          ? ((r = e.slice(t)),
            (t = e.length),
            { value: r, done: !1 })
          : { value: void 0, done: !0 }
        }.bind(this),
      
      return (undefined != typeof Symbol &&
        Symbol.iterator &&
        (r[Symbol.iterator] = function () {
          return r
        }),
        r
      )
    },
    (this.countGraphemes = function (e) {
      for (var t, r = 0, A = 0;
    (t = this.nextBreak(e, A)) < e.length;
    )
    (A = t), r++
    return A < e.length && r++, r
  })
})
}
```javascript
'use strict'
e.exports = (e, t = process.argv) => {
    const r = e.startsWith('-') ? '' : 1 === e.length ? '-' : '--',
        A = t.indexOf(r + e),
        n = t.indexOf('--')
    return -1 !== A && (-1 === n || A < n)
}
},
```

```javascript
'use strict'
const t = [200, 203, 204, 206, 300, 301, 404, 405, 410, 414, 501],
r = [
    200,
    203,
    204,
    300,
    301,
    302,
    303,
    307,
    308,
    404,
    405,
    410,
    414,
    501,
],
A = {
    date: !0,
    connection: !0,
    'keep-alive': !0,
    'proxy-authenticate': !0,
    'proxy-authorization': !0,
    te: !0,
    trailer: !0,
    'transfer-encoding': !0,
    upgrade: !0,
},
n = {
    'content-length': !0,
    'content-encoding': !0,
    'transfer-encoding': !0,
    'content-range': !0,
}
function o(e) {
    const t = []
    if (!e) return t
```

---

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const r = e.trim().split(/\s*\S+/)
for (const e of r) {
    const \[r, A\] = e.split(/\s*=\s*/, 2)
    t[r] = void 0 === A || A.replace(/^[^\S$]*/g, '')
} return t
}

function i(e) {
    let t = []
    for (const r in e) {
        const A = e[r]
        t.push(!0 === A ? r : r + '=' + A)
    } if (t.length) return t.join(', ')
} e.exports = class {
constructor(e, t, {
    shared: r,
    cacheHeuristic: A,
    immutableMinTimeToLive: n,
    ignoreCargoCult: s,
    trustServerDate: a,
    _fromObject: c,
} = {}) {
    if (c) this._fromObject(c)
    else {
        if (!t || !t.headers) throw Error('Response headers missing')
        this._assertRequestHasHeaders(e),
        (this._responseTime = this.now()),
        (this._isShared = !1 !== r),
        (this._trustServerDate = void 0 === a || a),
        (this._cacheHeuristic = void 0 !== A ? A : 0.1),
        (this._immutableMinTtl = void 0 !== n ? n : 864e5),
        (this._status = 'status' in t ? t.status : 200),
        (this._resHeaders = t.headers),
        (this._rescc = o(t.headers['cache-control'])),
        (this._method = 'method' in e ? e.method : 'GET'),
        (this._url = e.url),
        (this._host = e.headers.host),
        (this._noAuthorization = !e.headers.authorization),
        (this._reqHeaders = t.headers.vary ? e.headers : null),
        (this._reqcc = o(e.headers['cache-control']))
        s &&
        'pre-check' in this._rescc &&
'post-check' in this._rescc &&
(delete this._rescc['pre-check'],
delete this._rescc['post-check'],
delete this._rescc['no-cache'],
delete this._rescc['no-store'],
delete this._rescc['must-revalidate'],
(this._resHeaders = Object.assign({}, this._resHeaders, {
  'cache-control': i(this._rescc),
})),
delete this._resHeaders.expires,
delete this._resHeaders.pragma),
!t.headers['cache-control'] &&
/no-cache/.test(t.headers.pragma) &&
(this._rescc['no-cache'] = !0)
}
}
}
xnow() {
  return Date.now()
}
}
storable() {
  return !(this._reqcc['no-store'] ||
    ('GET' === this._method ||
    'HEAD' === this._method ||
    ('POST' === this._method && this._hasExplicitExpiration())
    ) ||
    -1 === r.indexOf(this._status) ||
    this._rescc['no-store'] ||
    (this.isShared && this._rescc.private) ||
    (this.isShared &&
      !this._noAuthorization &&
      !this._allowsStoringAuthenticated()) ||
    (!
      this._resHeaders.expires ||
      this._rescc.public ||
      this._rescc['max-age'] ||
      this._rescc['s-maxage'] ||
      -1 !== t.indexOf(this._status)
    )
  )
  }
)
}
_hasExplicitExpiration() {
  return (this.isShared &&
    (this._rescc['s-maxage']) ||
    this._rescc['max-age'] ||
    this._resHeaders.expires
  )
_assertRequestHasHeaders(e) {
    if (!e || !e.headers) throw Error('Request headers missing')
}

satisfiesWithoutRevalidation(e) {
    this._assertRequestHasHeaders(e)
    const t = o(e.headers['cache-control'])
    if (t['no-cache'] || /no-cache/.test(e.headers.pragma)) return !1
    if (t['max-age'] && this.age() > t['max-age']) return !1
    if (t['min-fresh'] && this.timeToLive() < 1e3 * t['min-fresh'])
        return !1
    if (this.stale()) {
        if (t['max-stale'] &&
            !this._rescc['must-revalidate'] &&
            (!0 === t['max-stale'] ||
                t['max-stale'] > this.age() - this.maxAge())
            )
            return !1
    }
    return this._requestMatches(e, !1)
}

_requestMatches(e, t) {
    return (!this._url || this._url === e.url) &&
        this._host === e.headers.host &&
        (!e.method ||
            this._method === e.method ||
            (t && 'HEAD' === e.method)) &&
        this._varyMatches(e)
}

AllowsStoringAuthenticated() {
    return (this._rescc['must-revalidate'] ||
        this._rescc.public ||
        this._rescc['s-maxage'])
}

_varyMatches(e) {
    if (!this._resHeaders.vary) return !0
    if (* == this._resHeaders.vary) return !1
    const t = this._resHeaders.vary
        .trim()
        .toLowerCase()
        .split(/\s*,\s*/)
        .filter(s => s.length > 0)
for (const r of t)  
  if (e.headers[r] !== this._reqHeaders[r]) return !1
  return !0
}  

_copyWithoutHopByHopHeaders(e) {  
  const t = {}
  for (const r in e) A[r] || (t[r] = e[r])
  if (e.connection) {
    const r = e.connection.trim().split(/\s*,\s*/)
    for (const e of r) delete t[e]
  }
  if (t.warning) {
    const e = t.warning
    .split(/
    .filter((e) => !\s*1[0-9]\[0-9\]/.test(e))
    e.length ? (t.warning = e.join(\'\,\').trim()) : delete t.warning
  }
  return t
}

responseHeaders() {
  const e = this._copyWithoutHopByHopHeaders(this._resHeaders),
  t = this.age()
  return {
    t > 86400 &&
    !this._hasExplicitExpiration() &&
    this.maxAge() > 86400 &&
    (e.warning =
     (e.warning ? e.warning + ', ' : '') +
     '113 - "rfc7234 5.5.4"'),
    (e.age = '' + Math.round(t)),
    (e.date = new Date(this.now()).toUTCString()),
    e
  }
}

date() {
  return this._trustServerDate
    ? this._serverDate()
    : this._responseTime
}

_serverDate() {
  const e = Date.parse(this._resHeaders.date)
  if (isFinite(e)) {
    const t = 288e5
    if (Math.abs(this._responseTime - e) < t) return e
  }
  return this._responseTime
}

age() {
let e = Math.max(0, (this._responseTime - this.date()) / 1e3)
if (this._resHeaders.age) {
    let t = this._ageValue()
    t > e && (e = t)
}
return e + (this.now() - this._responseTime) / 1e3
}
_ageValue() {
    const e = parseInt(this._resHeaders.age)
    return isFinite(e) ? e : 0
}
maxAge() {
    if (!this.storable() || this._rescc['no-cache']) return 0
    if (this._isShared) {
        this._isShared &&
        this._resHeaders['set-cookie'] &&
        !this._rescc.public &&
        !this._rescc.immutable
    )
    return 0
    if ('*' === this._resHeaders.vary) return 0
    if (this._isShared) {
        if (this._rescc['proxy-revalidate']) return 0
        if (this._rescc['s-maxage'])
            return parseInt(this._rescc['s-maxage'], 10)
    }
    if (this._rescc['max-age'])
        return parseInt(this._rescc['max-age'], 10)
    const e = this._rescc.immutable ? this._immutableMinTtl : 0,
    t = this._serverDate()
    if (this._resHeaders.expires) {
        const r = Date.parse(this._resHeaders.expires)
        return Number.isNaN(r) || r < t ? 0 : Math.max(e, (r - t) / 1e3)
    }
    if (this._resHeaders['last-modified']) {
        const r = Date.parse(this._resHeaders['last-modified'])
        if (isFinite(r) && t > r)
            return Math.max(e, ((t - r) / 1e3) * this._cacheHeuristic)
    }
    return e
}
timeToLive() {
    return 1e3 * Math.max(0, this.maxAge() - this.age())
}
stale() {
    return this.maxAge() <= this.age()
}
static fromObject(e) {
return new this(void 0, void 0, { _fromObject: e })
}

_fromObject(e) {
  if (this._responseTime) throw Error('Reinitialized')
  if (!e || 1 !== e.v) throw Error('Invalid serialization')

  (this._responseTime = e.t),
  (this._isShared = e.sh),
  (this._cacheHeuristic = e.ch),
  (this._immutableMinTtl = void 0 !== e.imm ? e.imm : 864e5),
  (this._status = e.st),
  (this._resHeaders = e.resh),
  (this._rescc = e.rescc),
  (this._method = e.m),
  (this._url = e.u),
  (this._host = e.h),
  (this._noAuthorization = e.a),
  (this._reqHeaders = e.reqh),
  (this._reqcc = e.reqcc)
}

.toObject() {
  return {
    v: 1,
    t: this._responseTime,
    sh: this._isShared,
    ch: this._cacheHeuristic,
    imm: this._immutableMinTtl,
    st: this._status,
    resh: this._resHeaders,
    rescc: this._rescc,
    m: this._method,
    u: this._url,
    h: this._host,
    a: this._noAuthorization,
    reqh: this._reqHeaders,
    reqcc: this._reqcc,
  }
}

revalidationHeaders(e) {
  this._assertRequestHasHeaders(e)
  const t = this._copyWithoutHopByHopHeaders(e.headers)
  if (
    (delete t['if-range'],
     !this._requestMatches(e, !0) || !this.storable())
  )
    return delete t['if-none-match'], delete t['if-modified-since'], t
  this._resHeaders.etag &&
  (t['if-none-match'] = t['if-none-match']
   ? this._resHeaders.etag
   : (t['if-none-match'] = t['if-none-match'])

  )
}

Open Source Used In Cisco Cloud Mailbox Defense -CMD (Project Raptor) April 2021 20897
if (t['accept-ranges'] || t['if-match'] || t['if-unmodified-since'] || (this._method && 'GET' != this._method)) {
    if ((delete t['if-modified-since'], t['if-none-match'])) {
        const e = t['if-none-match']
            .split(/,/)  
            .filter((e) => !/^s*W//.test(e))
        e.length
            ? (t['if-none-match'] = e.join(',').trim())
            : delete t['if-none-match']
    } else
        this._resHeaders['last-modified'] &&
            !(t['if-modified-since'] &&
                (t['if-modified-since'] = this._resHeaders['last-modified']))
    return t
}
revalidatedPolicy(e, t) {
    if ((this._assertRequestHasHeaders(e), !t || !t.headers))
        throw Error('Response headers missing')
    let r = !1
    if (void 0 !== t.status && 304 != t.status
        ? (r = !1)
        : t.headers.etag && !/^s*W//.test(t.headers.etag)
        ? (r = this._resHeaders.etag &&
            this._resHeaders.etag.replace(/s*W//, '') ===
            t.headers.etag)
        : this._resHeaders.etag &&
            t.headers.etag
        ? (r =
            this._resHeaders.etag.replace(/s*W//, '') ===
            t.headers.etag.replace(/s*W//, ''))
        : this._resHeaders['last-modified']
        ? (r =
            this._resHeaders['last-modified'] ===
            t.headers['last-modified'])
        : this._resHeaders.etag ||
            this._resHeaders['last-modified'] ||
            t.headers.etag ||
            t.headers['last-modified']
        ? (r = !0),
        !r)
    )
}
return {
  policy: new this.constructor(e, t),
  modified: 304 != t.status,
  matches: !1,
}
const A = {}
for (const e in this._resHeaders)
  A[e] =
    e in t.headers && !n[e] ? t.headers[e] : this._resHeaders[e]
const o = Object.assign([], t, {
  status: this._status,
  method: this._method,
  headers: A,
})
return {
  policy: new this.constructor(e, o, {
    shared: this._isShared,
    cacheHeuristic: this._cacheHeuristic,
    immutableMinTimeToLive: this._immutableMinTtl,
    trustServerDate: this._trustServerDate,
  }),
  modified: !1,
  matches: !0,
}
},
94935: (e, t, r) => {
  'use strict'
  const A = r(28614),
    n = r(4016),
    o = r(97565),
    i = r(49601),
    s = Symbol('currentStreamsCount'),
    a = Symbol('request'),
    c = Symbol('cachedOriginSet'),
    g = Symbol('gracefullyClosing'),
    l = [
      'maxDeflateDynamicTableSize',
      'maxSessionMemory',
      'maxHeaderListPairs',
      'maxOutstandingPings',
      'maxReservedRemoteStreams',
      'maxSendHeaderBlockLength',
      'paddingStrategy',
      'localAddress',
      'path',
      'rejectUnauthorized',
    ]


```
'\texttt{minDHSize}',
'\texttt{ca}',
'\texttt{cert}',
'\texttt{clientCertEngine}',
'\texttt{ciphers}',
'\texttt{key}',
'\texttt{pfx}',
'\texttt{servername}',
'\texttt{minVersion}',
'\texttt{maxVersion}',
'\texttt{secureProtocol}',
'\texttt{crl}',
'\texttt{honorCipherOrder}',
'\texttt{ecdhCurve}',
'\texttt{dhparam}',
'\texttt{secureOptions}',
'\texttt{sessionIdContext}',
},

u = (e, t) =>
e.remoteSettings.maxConcurrentStreams >
t.remoteSettings.maxConcurrentStreams,

h = (e, t) => {
for (const r of e)
  t[c].length < t[c].length &&
  r[c].every((e) => t[c].includes(e)) &&
  t[s] + t[s] <= t.remoteSettings.maxConcurrentStreams &&
  d(r)
},

p = ({ agent: e, isFree: t }) => {
const r = {} for (const A in e.sessions) {
  const n = e.sessions[A].filter((e) => {
    const r =
e[C.kCurrentStreamsCount] <
e.remoteSettings.maxConcurrentStreams
    return t ? r : !r
  })
  0 !== n.length && (r[A] = n)
}
return r
},
d = (e) => {
  if (el[g] != 0, 0 === e[s] && e.close()
} class C extends A {
constructor({
  timeout: e = 6e4,
  maxSessions: t = 1 / 0,
}
maxFreeSessions: r = 10, 
maxCachedTlsSessions: A = 100, 
} = {}
super(),
(this.sessions = {}),
(this.queue = {}),
(this.timeout = e),
(this.maxSessions = t),
(this.maxFreeSessions = r),
(this._freeSessionsCount = 0),
(this._sessionsCount = 0),
(this.settings = { enablePush: !1 }),
(this.tlsSessionCache = new i({ maxSize: A })
})
static normalizeOrigin(e, t) {
  return (  
    'string' == typeof e && (e = new URL(e)),  
    t && e.hostname !== t && (e.hostname = t),  
    e.origin
  )
}

normalizeOptions(e) {
  let t =  
  if (e) for (const r of l) e[r] && (t += ':' + e[r])
  return t
}

__tryToCreateNewSession(e, t) {
  if (!(e in this.queue) || !(t in this.queue[e])) return
  const r = this.queue[e][t]
  this._sessionsCount < this.maxSessions &&
  !r.completed &&
  ((r.completed = !0), r())
}

getSession(e, t, r) {
  return new Promise((A, n) => {
    Array.isArray(r)
      ? ((r = [...r]), A())
      : (r = [{ resolve: A, reject: n }])
    const i = this.normalizeOptions(t),
    l = C.normalizeOrigin(e, t && tservername)
    if (void 0 === l) {
      for (const { reject: e } of r)
        e(
          new TypeError(  
            'The `origin` argument needs to be a string or an URL object',
          ),
        )
    }
    return
if (i in this.sessions) {
    const e = this.sessions[i]
    let t,
    A = -1,
    n = -1
    for (const r of e) {
        const e = r.remoteSettings.maxConcurrentStreams
        if (e < A) break
        if (r[c].includes(l)) {
            const o = r[s]
            if (o >= e || r[g] || r.destroyed) continue
            t || (A = e), o > n & & ((t = r), (n = o))
        }
    }
    if (t) {
        if (1 !== r.length) {
            for (const { reject: e } of r) {
                e(
                    new Error(
                        `Expected the length of listeners to be 1, got ${r.length}."Please report this to https://github.com/szmarczak/http2-wrapper/`
                    )
                ,
                )
            return
        return void r[0].resolve(t)
    }
    if (i in this.queue) {
        if (l in this.queue[i])
            return (this.queue[i][l].listeners.push(...r),
                void this._tryToCreateNewSession(i, l)
            )
    } else this.queue[i] = {}
    const p = () => {
        i in this.queue & &
        this.queue[i][l] === f & &
        (delete this.queue[i][l],
        0 === Object.keys(this.queue[i]).length & &
        delete this.queue[i])
    },
    f = () => {
        const A = `\$\{1\}:\$\{i\}`
        let n = !1
        try {
```javascript
const C = o.connect(e, {
    createConnection: this.createConnection,
    settings: this.settings,
    session: this.tlsSessionCache.get(A),
    ...t,
});
:(C[s] = 0), (C[g] = !1)
const I = () => C[s] < C.remoteSettings.maxConcurrentStreams
let E = !0
C.socket.once('session', (e) => {
    this.tlsSessionCache.set(A, e)
}).
C.once('error', (e) => {
    for (const { reject: t } of r) t(e)
    this.tlsSessionCache.delete(A)
}).
C.setTimeout(this.timeout, () => {
    C.destroy()
}).
C.once('close', () => {
    if (n) {
        E && this._freeSessionsCount--, this._sessionsCount--
        const e = this.sessions[i]
        e.splice(e.indexOf(C), 1),
        0 === e.length && delete this.sessions[i]
    } else {
        const e = new Error('Session closed without receiving a SETTINGS frame',
        )
        e.code = 'HTTP2WRAPPER_NOSETTINGS'
        for (const { reject: t } of r) t(e)
        p()
    }
    this._tryToCreateNewSession(i, l)
})
const B = () => {
    if (i in this.queue && I())
    for (const e of C[c])
        if (e in this.queue[i]) {
            const { listeners: t } = this.queue[i][e]
            for (; 0 !== t.length && I(); ) t.shift().resolve(C)
            const r = this.queue[i]
            if (0 === r[e].listeners.length &&
                (delete r[e], 0 === Object.keys(r).length)
            ) {
                delete this.queue[i]
                break
            }
```
if (!I()) break

C.on('origin', () => {
  (C[c] = C.originSet),
  I() && (B(), h(this.sessions[i], C))
}),
C.once('remoteSettings', () => {
  if (
    (C.ref(),
    C.unref(),
    this._sessionsCount++,
    f.destroyed)
  ) {
    const e = new Error('Agent has been destroyed')
    for (const t of r) t.reject(e)
    C.destroy()
  } else {
    C[c] = C.originSet
    
    const e = this.sessions
    if (i in e) {
      const t = e[i]
      t.splice(
        ((e, t, r) => {
          let A = 0,
          n = e.length
          for (; A < n; ) {
            const o = (A + n) >>> 1
            r(e[o], t) ? (A = o + 1) : (n = o)
          }
          return A
        })(t, C, u),
        0,
        C,
      )
    } else e[i] = [C]

  (this._freeSessionsCount += 1),
  (n = !0),
  this.emit('session', C),
  B(),
  p(),
  0 === C[s] &&
  this._freeSessionsCount > this.maxFreeSessions &&
  C.close(),
  0 !== r.length &&
(this.getSession(l, t, r), (r.length = 0)),
C.on('remoteSettings', () => {
    B(), h(this.sessions[i], C)
})
}
}),
(C[a] = C.request),
(C.request = (c, t) => {
    if (C[g])
        throw new Error('The session is gracefully closing. No new streams are allowed.',
    )
    const r = C[a][c](e, t)
    return (C.ref(),
        ++C[s],
        C[s] !== C.remoteSettings.maxConcurrentStreams &&
        this._freeSessionsCount--,
        r.once('close', () => {
            if (E = I(),
                --C[s],
                !C.destroyed &&
                !C.closed &&
                ((e, t) => {
                    for (const r of e)
                        t[c].length < r[c].length &&
                        t[c].every((e) => r[c].includes(e)) &&
                        t[s] + r[s] <=
                            r.remoteSettings.maxConcurrentStreams &&
                        d(t)
                })(this.sessions[i], C),
                I() && !C.closed))})
})(this.sessions[i], C),
I() && !C.closed))
})
E || (this._freeSessionsCount++, (E = !0))
const e = 0 === C[s]
e && C_unref(),
e &&
    (this._freeSessionsCount >
        this.maxFreeSessions ||
    C[g])
    ? C.close()
    : (h(this.sessions[i], C, B())
}));
},
r)
})
```javascript
] catch (e) {
    for (const t of r) t.reject(e)
    p()
}
}
):(f.listeners = r),
    (f.completed = !1),
    (f.destroyed = !1),
    (this.queue[i][l] = f),
    this._tryToCreateNewSession(i, l)
})
}
)
) request(e, t, r, A) {
    return new Promise((n, o) => {
        this.getSession(e, t, [
            { reject: o,
            resolve: (e) => {
                try {
                    n(e.request(r, A))
            } catch (e) {
                o(e)
            }
            },
        ],
    },
}),
})
}
) createConnection(e, t) {
    return C.connect(e, t)
}
) static connect(e, t) {
    t.ALPNProtocols = ['h2']
    const r = e.port || 443,
    A = e.hostname || e.host
    return ( void 0 === t.servername && (t.servername = A), n.connect(r, A, t)
    )
}
)
) closeFreeSessions() {
    for (const e of Object.values(this.sessions))
        for (const t of e) 0 === t[s] && t.close()
    })
) destroy(e) {
    for (const t of Object.values(this.sessions))
        for (const r of t) r.destroy(e)
    for (const e of Object.values(this.queue))
        for (const t of Object.values(e)) t.destroyed = !0
```
this.queue = {}
}

get freeSessions() {
  return p({ agent: this, isFree: !0 })
}

get busySessions() {
  return p({ agent: this, isFree: !1 })
}

:C.kCurrentStreamsCount = s),
  (C.kGracefullyClosing = g),
  (e.exports = { Agent: C, globalAgent: new C() })
},
2398: (e, t, r) => {
  'use strict'
  const A = r(98605),
    n = r(57211),
    o = r(19476),
    i = r(49601),
    s = r(33134),
    a = r(5209),
    c = r(50075),
    g = new i({ maxSize: 100 }),
    l = new Map(),
    u = (e, t, r) => {
      t._httpMessage = { shouldKeepAlive: !0 }
      const A = () => {
        e.emit('free', t, r)
      }
      t.on('free', A)
      const n = () => {
        e.removeSocket(t, r)
      }
      t.on('close', n)
      const o = () => {
        e.removeSocket(t, r),
        t.off('close', n),
        t.off('free', A),
        t.off('agentRemove', o)
      }
      t.on('agentRemove', o),
      e.emit('free', t, r)
    }

    :e.exports = async (e, t, r) => {
      if (r
        ('string' == typeof e || e instanceof URL) && (e = c(new URL(e))),
        'function' == typeof t && ((r = t), (t = void 0)),
        t = {
          ALPNProtocols: ['h2', 'http/1.1'],
...e,
...t,
resolveSocket: '0,
})
!(Array.isArray(t.ALPNProtocols) || 0 === t.ALPNProtocols.length)
)
throw new Error(
' The `ALPNProtocols` option must be an Array with at least one entry',
)
const i = 'https' === t.protocol
//(t.host = t.hostname || t.host || 'localhost'),
(t.session = t.tlsSession),
(t.servername = t.servername || a(t)),
(t.port = t.port || (i ? 443 : 80)),
(t._defaultAgent = i ? n.globalAgent : A.globalAgent)
const h = t.agent
if (h) {
if (h.addRequest)
throw new Error(
' The `options.agent` object can contain only `http`, `https` or `http2` properties',
)
const i = 'https' === t.protocol
}
const h = t.agent
if (i) {
if (i)
if ('h2' ===
(aw a a a (e) => {
const t  = 'd{e.host}:d{e.port}:d{e.ALPNProtocols.sort()}'
if (!g.has(t)) {
if (l.has(t)) {
return (await l.get(t)).alpnProtocol
}
const { path: r, agent: A } = e
e.path = e.socketPath
const i = o(e)
I.set(t, i)
try {
const { socket: o, alpnProtocol: s } = await i
if ((g.set(t, s), (e.path = r), 'h2' === s)) o.destroy()
else {
const { globalAgent: t } = n,
   r = n.Agent.prototype.createConnection
A
? A.createConnection === r
? u(A, o, e)
: o.destroy()
: t.createConnection === r
? u(t, o, e)  
: o.destroy()  
}
return l.delete(t), s
} catch (e) {
    throw (l.delete(t), e)
}
}
return g.get(t)
})(t))
)
return h && (t.agent = h.http2), new s(t, r)
} return A.request(t, r)
}),
(e.exports.protocolCache = g)
},
33134: (e, t, r) => {
'use strict'
const A = r(97565),
    { Writable: n } = r(92413),
    { Agent: o, globalAgent: i } = r(94935),
    s = r(53433),
    a = r(50075),
    c = r(66192),
    g = r(50978),
    {
        ERR_INVALID_ARG_TYPE: l,
        ERR_INVALID_PROTOCOL: u,
        ERR_HTTP_HEADERS_SENT: h,
        ERR_INVALID_HTTP_TOKEN: p,
        ERR_HTTP_INVALID_HEADER_VALUE: d,
        ERR_INVALID_CHAR: C,
    } = r(64080),
    {
        HTTP2_HEADER_STATUS: f,
        HTTP2_HEADER_METHOD: I,
        HTTP2_HEADER_PATH: E,
        HTTP2_METHOD_CONNECT: B,
    } = A.constants,
    y = Symbol('headers'),
    m = Symbol('origin'),
    w = Symbol('session'),
    Q = Symbol('options'),
    D = Symbol('FlushedHeaders'),
    b = Symbol('jobs'),
    v = /^\^[^\w!#$%&*+.]+$/g,
    S = /[\^\w0020-007E0080-00FF]/
e.exports = class extends n {
    constructor(e, t, r) {
        super({ autoDestroy: !1 })
        const A = 'string' == typeof e || e instanceof URL
        if (A && (e = a(e instanceof URL ? e : new URL(e))),
            'function' == typeof t || void 0 === t
                ? ((r = t), (t = A ? e : { ...e })))
            : (t = [...e, ...t]),
            t.h2session)
        )
        this[w] = t.h2session
        else if (!1 === t.agent) this.agent = new o({ maxFreeSessions: 0 })
        else if (void 0 === t.agent || null === t.agent)
            'function' == typeof t.createConnection
                ? ((this.agent = new o({ maxFreeSessions: 0 })),
                    (this.agent.createConnection = t.createConnection))
                : (this.agent = i)
        else {
            if ('function' != typeof t.agent.request)
                throw new l(
                    'options.agent',
                    ['Agent-like Object', 'undefined', 'false'],
                    t.agent,
                )
            this.agent = t.agent
        }
        if (t.protocol && 'https:' !== t.protocol)
            throw new u(t.protocol, 'https:');
        const n =
            t.port ||
            t.defaultPort ||
            (this.agent && this.agent.defaultPort) ||
            443,
            s = t.hostname || t.host || 'localhost'
        delete t.hostname, delete t.host, delete t.port
        const { timeout: c } = t
        if (c)
            (t.timeout = void 0),
            (this[y] = Object.create(null)),
            (this[b] = []),
            (this.socket = null),
            (this.connection = null),
            (this.method = t.method || 'GET'),
            (this.path = t.path),
            (this.res = null),
            (this.aborted = !1),
            (this.reusedSocket = !1),
            (this.reusedSocket = !1),
t.headers)
)
for (const [e, r] of Object.entries(t.headers))
  this.setHeader(e, r)

if (t.auth &&
  !(this[y].authorization &&
    (this[y].authorization =
      'Basic ' + Buffer.from(t.auth).toString('base64'))),
  (t.session = t.tlsSession),
  (t.path = t.socketPath),
  (this[Q] = t),
  443 === n

  ? ((this[m] = 'https://' + s),
  ':authority' in this[y] || (this[y][':authority'] = s))
  : ((this[m] = `https://${s}:${n}`),
  ':authority' in this[y] ||
  (this[y][':authority'] = `${s}:${n}`)),
  c && this.setTimeout(c),
  r && this.once('response', r),
  (this[D] = !1)
}

get method() {
  return this[y][I]
}

set method(e) {
  e && (this[y][I] = e.toUpperCase())
}

get path() {
  return this[y][E]
}

set path(e) {
  e && (this[y][E] = e)
}

get _mustNotHaveABody() {
  return (this.method === 'GET' || this.method === 'HEAD' ||
    this.method === 'DELETE')
}

_write(e, t, r) {
  if (this._mustNotHaveABody)
    return void r(
      new Error('The GET, HEAD and DELETE methods must NOT have a body',
    ),
  this.flushHeaders()
const A = () => this._request.write(e, t, r)
this._request ? A() : this[b].push(A)
}

_final(e) {
if (this.destroyed) return
this.flushHeaders()
const t = () => {
  this._mustNotHaveABody ? e() : this._request.end(e)
}
this._request ? t() : this[b].push(t)
}

abort() {
:(this.res && this.res.complete) ||
  (this.aborted || process.nextTick(() => this.emit('abort')),
  (this.aborted = !0),
  this.destroy())
}

_destroy(e, t) {
this.res && this.res._dump(),
  this._request && this._request.destroy(),
  t(e)
}

async flushHeaders() {
if (this[D] || this.destroyed) return
this[D] = !0
const e = this.method === B,
  t = (t) => {
    if (((this._request = t), this.destroyed))
      return void t.destroy()
    e || c(t, this, ['timeout', 'continue', 'close', 'error'])
    const r = (e) => (...) => {
      this.writable || this.destroyed
        ? this.once('finish', () => {
          e(...t)
        }) : e(...t)
  }
  t.once('response',
    r((r, A, n) => {
      const o = new s(this.socket, t.readableHighWaterMark)
        ;(this.res = o),
        (o.req = this),
        (o.statusCode = r[f]),
        (o.headers = r),
        (o.rawHeaders = n),
        o.once('end', () => {
          this.aborted
        })
    }),
    (r, A, n) => {
? (o.aborted = !0), o.emit('aborted'))
    : (o.complete = !0),
    (o.socket = null),
    (o.connection = null))
}),
    e
? (o.upgrade = !0),
    this.emit('connect', o, t, Buffer.alloc(0))
? this.emit('close')
: t.destroy()
: (t.on('data', (e) => {
    o._dumped || o.push(e) || t.pause()
}),
  t.once('end', () => {
    o.push(null)
}),
  this.emit('response', o) || o._dump())
}),
  t.once(
    'headers',
    r((e) => this.emit('information', { statusCode: e[f] })),
  ),
  t.once(
    'trailers',
    r((e, t, r) => {
      const { res: A } = this
      ;(A.trailers = e), (A.rawTrailers = r)
    }),
  )
const { socket: A } = t.session
;((this.socket = A), (this.connection = A)
for (const e of this[b]) e()
this.emit('socket', this.socket)
}
if (this[w])
try {
  t(this[w].request(this[y]))
} catch (e) {
  this.emit('error', e)
}
else {
  this.reusedSocket = !0
  try {
    t(await this.agent.request(this[m], this[Q], this[y]))
  } catch (e) {
    this.emit('error', e)
  }
getHeader(e) {
    if ('string' !== typeof e) throw new l('name', 'string', e)
    return this[y][e.toLowerCase()]
}

get headersSent() {
    return this[D]
}

removeHeader(e) {
    if ('string' !== typeof e) throw new l('name', 'string', e)
    if (this.headersSent) throw new h('remove')
    delete this[y][e.toLowerCase()]
}

setHeader(e, t) {
    if (this.headersSent) throw new h('set')
    if ('string' !== typeof e || !(v.test(e) && !(g(e))))
        throw new p('Header name', e)
    if (void 0 === t) throw new d(t, e)
    if (S.test(t)) throw new C('header content', e)
    this[y][e.toLowerCase()] = t
}

setTimeout(e, t) {
    const r = () => this._request.setTimeout(e, t)
    return this._request ? r() : this[b].push(r), this
}

get maxHeadersCount() {
    if (!this.destroyed && this._request)
        return this._request.session.localSettings.maxHeaderListSize
}

set maxHeadersCount(e) {}

',53433: (e, t, r) => {
    'use strict'
    const { Readable: A } = r(92413)
    e.exports = class extends A {
        constructor(e, t) {
            super({ highWaterMark: t, autoDestroy: !1 }),
            (this.statusCode = null),
            (this.statusMessage = ''),
            (this.httpVersion = '2.0'),
            (this.httpVersionMajor = 2),
            (this.httpVersionMinor = 0),
            (this.headers = {}),
            (this.trailers = {}),
(this.req = null),
(this.aborted = !1),
(this.complete = !1),
(this.upgrade = null),
(this.rawHeaders = []),
(this.rawTrailers = []),
(this.socket = e),
(this.connection = e),
(this._dumped = !1)
}
_destroy(e) {
  this.req._request.destroy(e)
}
setTimeout(e, t) {
  return this.req.setTimeout(e, t), this
}
_dump() {
  this._dumped ||
  ((this._dumped = !0),
    this.removeAllListeners('data'),
    this.resume())
}
_read() {
  this.req && this.req._request.resume()
}
}

92353: (e, t, r) => {
  'use strict'
  const A = r(97565),
    n = r(94935),
    o = r(33134),
    i = r(53433),
    s = r(2398)
  e.exports = {
    ...A,
    ClientRequest: o,
    IncomingMessage: i,
    ...n,
    request: (e, t, r) => new o(e, t, r),
    get: (e, t, r) => {
      const A = new o(e, t, r)
      return A.end(), A
    },
    auto: s,
  }
}
5209: (e, t, r) => {
'use strict'
const A = r(11631)
e.exports = (e) => {
  let t = e.host
  const r = e.headers && e.headers.host
  if (r)
    if (r.startsWith('[')) {
      t = -1 === r.indexOf(']') ? r : r.slice(1, -1)
    } else t = r.split(':', 1)[0]
  return A.isIP(t) ? '' : t
}
}
64080: (e) => {
'use strict'
const t = (t, r, A) => {
  e.exports[r] = class extends t {
    constructor(...e) {
      super('string' == typeof A ? A : A(e)),
      (this.name = `${super.name} [${r}]`),
      (this.code = r)
    }
  }
}
t(TypeError, 'ERR_INVALID_ARG_TYPE', (e) => {
  const t = e[0].includes('.') ? 'property' : 'argument'
  let r = e[1]
  const A = Array.isArray(r)
  return (
    A && (r = `${r.slice(0, -1).join(', ')} or ${r.slice(-1)}`),
    `The "${e[0]}" ${t} must be ${A ? 'one of' : 'of'} type ${r}. Received ${typeof e[2]}`
  )
}),
t
TypeError,
'ERR_INVALID_ARG_TYPE',
(e) => `Protocol "${e[0]}" not supported. Expected "${e[1]}"`,
),
t
Error,
'ERR_HTTP_HEADERS_SENT',
(e) => `Cannot ${e[0]} headers after they are sent to the client`
),
t
TypeError,
'ERR_INVALID_HTTP_TOKEN',
(e) => `Input "${e[0]}" must be a valid HTTP token ["${e[1]}"]`,
)
function t(e) {
    if (typeof e !== 'object' || e.nodeType || e.length) throw Error('Invalid value ' + JSON.stringify(d, 0, 2) + ' for header ' + JSON.stringify(d, 0, 2) + '.
    } else if (typeof e !== 'string') throw Error('Invalid character in ' + JSON.stringify(d, 0, 2) + ' ' + JSON.stringify(res, 0, 2) + '.
    }
    }
    function e() {
        for (const A of r) e.on(A, (...e) => t.emit(A, ...e))
    }
    function a(e) {
        const t = {
            protocol: e.protocol,
            hostname: 'string' === typeof e.hostname && e.hostname.startsWith('[') ? e.hostname.replace(/[^\]]+/, '') : e.hostname,
            host: e.host,
            hash: e.hash,
            search: e.search,
            pathname: e.pathname,
            href: e.href,
            path: e.pathname ? e.pathname + ' ' + e.search : e.pathname + ' ' + e.search
        }
    }
return (
'string' == typeof e.port &&
0 !== e.port.length &&
(t.port = Number(e.port)),
(e.username || e.password) &&
(t.auth = `${e.username || ''}:${e.password || ''}`),
t
)
}
},
46458: (e) => {
function t(e) {
return Array.isArray(e) ? e : [e]
}
const r = /^\s+$/,
A = /^\\!/,
n = /^\\#/,
o = /\r?\n/g,
i = /^\.*\/|^\.+$/,
s=
'undefined' != typeof Symbol
? Symbol.for('node-ignore')
: 'node-ignore',
a = /([0-z])-([0-z])/g,
c=[
[/\\?\s+$/, (e) => (0 === e.indexOf('\\') ? ' ' : '')],
[/\\\s/g, () => ' '],
[/[\\^$.|*+(){]/g, (e) => '\\' + e],
[
/\[([^\]/]*)($|\])/g,
(e, t, r) => {
return ']' === r
? `[${
((A = t),
A.replace(a, (e, t, r) =>
t.charCodeAt(0) <= r.charCodeAt(0) ? e : '',
))
}]`
: '\\' + e
var A
},
],
[/(?!\\)\?/g, () => '[^/]'],
[/^\//, () => '^'],
[/\//g, () => '\\/'],
[/^\^*\\\*\\\*\\\//, () => '^(?:.*\\/)?'],
[/(?:[^*])$/, (e) => (/\/$/.test(e) ? e + '$' : e + '(?=$|\\/$)')],
[

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class f {
    constructor({ ignorecase: e = !0 } = {}) {
        var t, r, A;
        (this._rules = []),
            (this._ignorecase = e),
            (t = this),
            (r = s),
            (A = !0),
            Object.defineProperty(t, r, { value: A }),
            this._initCache()
        }
    _initCache() {
        (this._ignoreCache = Object.create(null)),
            (this._testCache = Object.create(null))
    }
    _addPattern(e) {
        if (e && e[s])
            return (this._rules = this._rules.concat(e._rules)),
                void (this._added = !0)
        if (((e) => e && l(e) && !r.test(e) && 0 !== e.indexOf('#'))(e)) {
            const t = h(e, this._ignorecase)
                ;(this._added = !0), this._rules.push(t)
        }
    }
    add(e) {
        return (this._added = !1),
            t(l(e) ? ((e) => e.split(o))(e) : e).forEach(
                this._addPattern,
                this,
            ),
            this._added && this._initCache(),
            this
        }
    addPattern(e) {
        return this.add(e)
    }
    _testOne(e, t) {
let r = !1,
A = !1
return {
    this._rules.forEach((n) => {
        const { negative: o } = n
        if ((A === o && r !== A) || (o && !r && !A && !t)) return
        n.regex.test(e) && ((r = !o), (A = o))
    }),
    ignored: r, unignored: A
}
}_test(e, t, r, A) {
    const n = e && d.convert(e)
    return d(n, e, p), this._t(n, t, r, A)
}
_t(e, t, r, A) {
    if (e in t) return t[e]
    if ((A || (A = e.split('/')), A.pop(), !A.length))
        return (t[e] = this._testOne(e, r))
    const n = this._t(A.join('/') + '/', t, r, A)
    return (t[e] = n.ignored ? n : this._testOne(e, r))
}
ignores(e) {
    return this._test(e, this._ignoreCache, !1).ignored
}
createFilter() {
    return (e) => !this.ignores(e)
}
filter(e) {
    return t(e).filter(this.createFilter())
}
test(e) {
    return this._test(e, this._testCache, !0)
}
}
const I = (e) => new f(e),
E = () => !1
if (I.isPathValid = (e) => d(e && d.convert(e), e, E),
    I.default = I, I.exports = 1,
    'undefined' != typeof process &&
    ((process.env && process.env.IGNORE_TEST_WIN32) ||
    'win32' === process.platform))
  ) {
    const e = (e) =>
        /^\\\?\W.test(e) || /["<>
    u0000-\u001F]+/u.test(e)
        ? e
: e.replace(/\N/g, '\')
d.convert = e
const t = /^[a-z]\//i
d.isNotRelative = (e) => t.test(e) || C(e)
}
},
85870: (e, t, r) => {
try {
  var A = r(31669)
  if ('function' !== typeof A.inherits) throw "
  e.exports = A.inherits
} catch (t) {
  e.exports = r(48145)
}
},
48145: (e) => {
  'function' === typeof Object.create
  ? (e.exports = function (e, t) {
      ;(e.super_ = t),
      (e.prototype = Object.create(t.prototype, {
        constructor: {
          value: e,
          enumerable: !1,
          writable: !0,
          configurable: !0,
        },
      })),
    })
  )
  : (e.exports = function (e, t) {
    e.super_ = t
    var r = function () {}
    ;(r.prototype = t.prototype),
    (e.prototype = new r()),
    (e.prototype.constructor = e)
  })
},
44486: (e) => {
  /*!
   * is-extglob <https://github.com/jonschlinkert/is-extglob>
   *
   * Copyright (c) 2014-2016, Jon Schlinkert.
   * Licensed under the MIT License.
   */
  e.exports = function (e) {
    if ('string' !== typeof e || "=== e") return !1
    for (var t; (t = /[@?!+*\[\]](.*)(?=.*))/g).exec(e); ) {
      if (t[2]) return !0
    }
    e = e.slice(t.index + t[0].length)
return !1
}
}
}
18193: (e, t, r) => {
    /*!
    * is-glob <https://github.com/jonschlinkert/is-glob>
    *
    * Copyright (c) 2014-2017, Jon Schlinkert.
    * Released under the MIT License.
    */
    var A = r(44486),
    n = { '{': '}', '(': ')', '[': ']' },
    o = /\(.)|(^!|\*|[^\[\].]+\]?|[^\[\].]+\]?|[^\[\].]+\]?|[^\[\].]+\)?/,
    i = /\(.)|(^!|\*|[^\[\].]+\]?|[^\[\].]+\)?/,
    e.exports = function (e, t) {
        if ('string' !== typeof e || !e) return !1
        if (A(e)) return !0
        var r,
            s = o
        for (t && !1 === t.strict && (s = i); (r = s.exec(e)); ) {
            if (r[2]) return !0
            var a = r.index + r[0].length,
                c = r[1],
                g = c ? n[c] : null
        if (c && g) {
            var l = e.indexOf(g, a);
            -1 !== l && (a = l + 1)
        }
        e = e.slice(a)
        return !1
    }
},
59235: (e) => {
    'use strict'
    /*!
    * is-number <https://github.com/jonschlinkert/is-number>
    *
    * Copyright (c) 2014-present, Jon Schlinkert.
    * Released under the MIT License.
    */
    e.exports = function (e) {
        return 'number' == typeof e
        ? e - e == 0
        : typeof e !== 'string' ||
        " " !== e.trim() &&
        (Number.isFinite ? Number.isFinite(+e) : isFinite(+e))
    }
is-windows <https://github.com/jonschlinkert/is-windows>

* Copyright 2015-2018, Jon Schlinkert.
* Released under the MIT License.

```javascript
var r, A, n, o

/*!
 * is-windows <https://github.com/jonschlinkert/is-windows>
 *
 * Copyright 2015-2018, Jon Schlinkert.
 * Released under the MIT License.
 */ ;(o = function () {
 'use strict'
 return function () {
 return (process &&
 ('win32' === process.platform ||
 /*(msys|cygwin)$/.test(process.env.OSTYPE))
 )
 }
}

})(function (e, t, r) {
 if ('function' == typeof r) {
 (r = t = {}),
 void 0 ===
 (n = 'function' == typeof (r = o) ? r.apply(t, A) : r) ||
 (e.exports = n)
 },

 r(35747)

 function n(e, t, r) {
 if ('function' == typeof t && ((r = t), (t = {}), !r)) {
 if ('function' != typeof Promise)
 throw new TypeError('callback not provided')
 return new Promise(function (r, A) {
 n(e, t || [], function (e, t) {
 e ? A(e) : r(t)
 })
 })
}

 A(e, t || [], function (e, A) {
 e &&
 ('EACCES' === e.code || (t && t.ignoreErrors)) &&
 ((e = null), (A = !1)),
 r(e, A)
 })

 :(A =
 'win32' === process.platform || global.TESTING_WINDOWS
 ? r(3202)
 ```
try {
    return A.sync(e, t || {})
} catch (e) {
    if ((t && t.ignoreErrors) || 'EACCES' === e.code) return !1
    throw e
}
});

2151: (e, t, r) => {
  (e.exports = n),
  (n.sync = function (e, t) {
    return o(A.statSync(e), t)
  })
}

var A = r(35747)

function n(e, t, r) {
  A.stat(e, function (e, A) {
    r(e, !e && o(A, t))
  })
}

function o(e, t) {
  return (e.isFile() &&
    (function (e, t) {
      var r = e.mode,
        A = e.uid,
        n = e.gid,
        o =
        void 0 !== t.uid ? t.uid : process.getuid && process.getuid(),
        i =
        void 0 !== t.gid ? t.gid : process.getgid && process.getgid(),
        s = parseInt('100', 8),
        a = parseInt('010', 8),
        c = parseInt('001', 8),
        g = s | a
      return (r & c !==) ||
        (r & a && n !== i) ||
        (r & s && A !== o) ||
        (r & g && 0 !== o)
    })(e, t)
  )
}

3202: (e, t, r) => {
(o.sync = function (e, t) {
    return n(A.statSync(e), e, t)
})

var A = r(35747)

function n(e, t, r) {
    return (!e.isSymbolicLink() && !e.isFile()) &&
    (function (e, t) {
        var r = void 0 !== t.pathExt ? t.pathExt : process.env.PATHEXT
        if (!r) return !0
        if (-1 !== (r = r.split(':'))[0].indexOf('.')) return !0
        for (var A = 0; A < r.length; A++) {
            var n = r[A].toLowerCase()
            if (n && e.substr(-n.length).toLowerCase() === n) return !0
        }
        return !1
    })(t, r)
})

function o(e, t, r) {
    A.stat(e, function (A, o) {
        r(A, !A && n(o, e, t))
    })
}

21194: (e, t, r) => {
'use strict'
var A = r(40744)
e.exports = A
}

40744: (e, t, r) => {
'use strict'
var A = r(55384),
n = r(24129)
function o(e) {
    return function () {
        throw new Error('Function ' + e + ' is deprecated and cannot be used.';
    }
}

:(e.exports.Type = r(81704)),
(e.exports.Schema = r(8212)),
(e.exports.FAILSAFE_SCHEMA = r(44413)),
(e.exports.JSON_SCHEMA = r(45247)),
(e.exports.CORE_SCHEMA = r(8769)),
(e.exports.DEFAULT_SAFE_SCHEMA = r(65483)),

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n = r(17345),
o = r(5235),
i = r(65483),
s = Object.prototype.toString,
a = Object.prototype.hasOwnProperty,
c = {
    0: '\0',
    7: '\a',
    8: '\b',
    9: '\t',
    10: '\n',
    11: '\v',
    12: '\f',
    13: '\r',
    27: '\e',
    34: '"',
    92: '\\',
    133: '\N',
    160: '›',
    8232: '\L',
    8233: '\P',
},
g = [y,'Y','yes','Yes','YES','on','On','ON','n','N','no','No','NO','off','Off','OFF',
}
function l(e) {
    var t, r, o
    if (((t = e.toString(16).toUpperCase()), e <= 255)) (r = 'x'), (o = 2)
    else if (e <= 65535) (r = 'u'), (o = 4)
    else {
        if (!(e <= 4294967295))
            throw new n(
                'code point within a string may not be greater than 0xFFFFFFFF',
            )
        if (j(e <= 4294967295))
            throw new n(
                'code point within a string may not be greater than 0xFFFFFFFF',
            )
    }
function u(e) {
    (this.schema = e.schema || o),
    (this.indent = Math.max(1, e.indent || 2)),
    (this.noArrayIndent = e.noArrayIndent || !1),
    (this.skipInvalid = e.skipInvalid || !1),
    (this.flowLevel = A.isNothing(e.flowLevel) ? -1 : e.flowLevel),
    (this.styleMap = (function (e, t) {
        var r, A, n, o, i, s, c
        if (null === t) return {}
        for (r = {}, n = 0, o = (A = Object.keys(t)).length; n < o; n += 1)
            (i = A[n]),
            (s = String(t[i])),
            '\!' === i.slice(0, 2) &&
            (i = 'tag:yaml.org,2002:' + i.slice(2)),
            (c = e.compiledTypeMap.fallback[i]) &&
            a.call(c.styleAliases, s) &&
            (s = c.styleAliases[s]),
            (r[i] = s)
        return r
    })(this.schema, e.styles || null)),
    (this.sortKeys = e.sortKeys || !1),
    (this.lineWidth = e.lineWidth || 80),
    (this.noRefs = e.noRefs || !1),
    (this.noCompatMode = e.noCompatMode || !1),
    (this.condenseFlow = e.condenseFlow || !1),
    (this.implicitTypes = this.schema.compiledImplicit),
    (this.explicitTypes = this.schema.compiledExplicit),
    (this.tag = null),
    (this.result = ''),
    (this.duplicates = []),
    (this.usedDuplicates = null)
}
? ((r = e.slice(o)), (o = a))
: ((r = e.slice(o, i + 1)), (o = i + 1))
  r.length && '\n' !== r && (s += n),
  (s += r)
return s
}
function p(e, t) {
  return '\n' + A.repeat(' ', e.indent * t)
}
function d(e) {
  return 32 === e || 9 === e
}
function C(e) {
  return (32 <= e && e <= 126) ||
  (161 <= e && e <= 55295 && & 8232 !== e && 8233 !== e) ||
  (57344 <= e && e <= 65533 && 65279 !== e) ||
  (65536 <= e && e <= 1114111)
}
function f(e) {
  return (C(e) &&
    65279 !== e &&
    44 !== e &&
    91 !== e &&
    93 !== e &&
    123 !== e &&
    125 !== e &&
    58 !== e &&
    35 !== e
  )
}
function l(e) {
  return /^
  /
  test(e)
}
function E(e, t, r, A, n) {
var o,
  i,
  s,
  a = !1,
  c = !1,
  g = -1 !== A,
  l = -1,
  u =
C((s = e.charCodeAt(0))) &&
  65279 !== s &&
  !d(s) &&
45 !== s &&
63 !== s &&
58 !== s &&
44 !== s &&
91 !== s &&
93 !== s &&
123 !== s &&
125 !== s &&
35 !== s &&
38 !== s &&
42 !== s &&
33 !== s &&
124 !== s &&
62 !== s &&
39 !== s &&
34 !== s &&
37 !== s &&
64 !== s &&
96 !== s &&
!d(e.charCodeAt(e.length - 1))
if (t)
for (o = 0; o < e.length; o++) {
  if (!C((i = e.charCodeAt(o)))) return 5
  u = u && f(i)
}
else {
  for (o = 0; o < e.length; o++) {
    if (10 === (i = e.charCodeAt(o)))
      (a = !0),
      g && ((c = c || (o - l - 1 > A && ' ' !== e[l + 1])), (l = o))
    else if (!C(i)) return 5
    u = u && f(i)
  }
  c = c || (g && o - l - 1 > A && ' ' !== e[l + 1])
  return a ? (r > 9 && I(e) ? 5 : c ? 4 : 3) : u && !n(e) ? 1 : 2
}
function B(e, t, r, A) {
e.dump = (function () {
if (0 === t.length) return "''"
if (!e.noCompatMode && -1 !== g.indexOf(t)) return `' + t + `'
var o = e.indent * Math.max(1, r),
i =
-1 === e.lineWidth
? -1
  : Math.max(Math.min(e.lineWidth, 40), e.lineWidth - o),
s = A || (e.flowLevel > -1 && r >= e.flowLevel)
switch (}
E(t, s, e.indent, i, function (t) {
    return (function (e, t) {
        var r, A
        for (r = 0, A = e.implicitTypes.length; r < A; r += 1)
            if (e.implicitTypes[r].resolve(t)) return !0
        return !1
    })(e, t)
})

) {
    case 1:
    return t
    case 2:
        return "" + t.replace(/\/*, """" + ""
    case 3:
        return \[ + y(t, e.indent) + m(h(t, o))
    case 4:
        return ("\>+y(t, e.indent) + m(
            function (e, t) {
                var r,
                    A,
                    n = /(\n+)?[^\n\s]+/g,
                    o =
                        (s = e.indexOf(\n'),
                            s = -1 !== s ? s : e.length,
                            n.lastIndex = s,
                            w(e.slice(0, s), t)),
                        i = ' ' === e[0] || ' ' === e[0]
                var s
                for (; (A = n.exec(e)); ) {
                    var a = A[1],
                        c = A[2]
                    +(r = ' ' === c.charAt(0)
                        ? c.length :
                            c.charAt(0) + w(c, t)),
                        i = r)
                return o
            })(t, i),
        o,
    },
})

) {

    case 5:
    return (
function (e) {
    for (var t, r, A, n = '', o = 0; o < e.length; o++)
        (t = e.charCodeAt(o)) >= 55296 &&
            t <= 56319 &&
        (r = e.charCodeAt(o + 1)) >= 56320 &&
            r <= 57343
            ? ((n += l(1024 * (t - 55296) + r - 56320 + 65536)),
                o++)
            : ((A = c[t]), (n += !A && C(t) ? e[o] : A || l(t)))
    return n
}

function y(e, t) {
    var r = I(e) ? String(t) : '',
        A = '
' === e[e.length - 1]
    return (
        r +
        (A && ('
' === e[e.length - 2] || '
' === e)
            ? '+
            : A
            ? ''
            : '-') +
        '
'
    )
}

function m(e) {
    return '
' === e[e.length - 1] ? e.slice(0, -1) : e
}

function w(e, t) {
    if ('' === e || ' ' === e[0]) return e
    for (var r, A, n = /\[^ ]/g, o = 0, i = 0, s = 0, a = '';
        (r = n.exec(e));
        s = r.index) - o > t &&
            ((A = i > o ? i : s), (a += '\n' + e.slice(o, A)), (o = A + 1)),
        (i = s)
    return (a += '\n'),
        e.length - o > t &&
    )
? (a += e.slice(o, i) + "\n" + e.slice(i + 1))
: (a += e.slice(o)),
a.slice(1)
)
}

function Q(e, t, r) {
    var A, o, i, c, g, l
    for (i = 0, c = (o = r ? e.explicitTypes : e.implicitTypes).length;
i < c;
i += 1
    )
        if (i
            ((g = o[i]).instanceOf || g.predicate) &&
            (!g.instanceOf ||
            ('object' == typeof t && t instanceof g.instanceOf)) &&
            (!g.predicate || g.predicate(t))
        )
            if (((e.tag = r ? g.tag : '?'), g.represent)) {
                if (i
                    if (!a.call(g.represent, l))
                        throw new n(
                            '!<\n' +
                            g.tag +
                            '> tag resolver accepts not "' +
                            l +
                            '" style',
                        )
                    A = g.represent[l](t, l)
                } else {
                    if (!a.call(g.represent, l))
                        throw new n(
                            '!<\n' +
                            g.tag +
                            '> tag resolver accepts not "' +
                            l +
                            '" style',
                        )
                    A = g.represent[l](t, l)
                }
            } else {
                return !0
            } else {
                return !1
            }
}

function D(e, t, r, A, o, i) {
    :e.tag = null, (e.dump = r), Q(e, r, !1) || Q(e, r, !0)
    var a = s.call(e.dump)
    A && (A = e.flowLevel < 0 || e.flowLevel > t)
    var c,
g,
l = '[object Object]' === a || '[object Array]' === a
if (l && (g = -1 !== (c = e.duplicates.indexOf(r)),
  ((null !== e.tag && '?' !== e.tag) ||
    g ||
    (2 !== e.indent && t > 0)) &&
    (o = !1),
  g && e.usedDuplicates[c])
) e.dump = '*ref_ ' + c
else {
  if (l && g && !e.usedDuplicates[c] && (e.usedDuplicates[c] = !0),
    '[object Object]' === a)
    A && 0 !== Object.keys(e.dump).length
  ? (!function (e, t, r, A) {
      var o, i, s, a, c, g, l = '', u = e.tag,
        h = Object.keys(r)
      if (!0 === e.sortKeys) h.sort()
      else if ('function' == typeof e.sortKeys) h.sort(e.sortKeys)
      else if (e.sortKeys)
        throw new n('sortKeys must be a boolean or a function')
      for (o = 0, i = h.length; o < i; o += 1)
        (g = ''),
        (A && 0 === o) || (g += p(e, t)),
        (a = r[(s = h[o])]),
        D(e, t + 1, s, '0', '0', '0') &&
        ((c =
          (null !== e.tag && '?' !== e.tag) ||
          (e.dump && e.dump.length > 1024)) &&
          (e.dump && 10 === e.dump.charCodeAt(0)
            ? (g += '?')
            : (g += '? ')),
          (g += e.dump),
          c && (g += p(e, t)),
          D(e, t + 1, a, '0', c) &&
          (e.dump && 10 === e.dump.charCodeAtAt(0)
            ? (g += ':')
            : (g += ': ')),
          (l += g += e.dump)))
    : (e.tag = u), (e.dump = l || '{}')
  )
}
var A,
  n,
  o,
  i,
  s,
  a = ",
  c = e.tag,
  g = Object.keys(r)
for (A = 0, n = g.length; A < n; A += 1)
  (s = e.condenseFlow ? "" : ""),
  0 !== A && (s += ","),
  (i = r[(o = g[A])]),
  D(e, t, o, !1, !1) &&
  (e.dump.length > 1024 && (s += ","),
  (s +=
    e.dump +
    (e.condenseFlow ? "" : ")" +
    ":" +
    (e.condenseFlow ? "" : " ")),
  D(e, t, i, !1, !1) && (a += s += e.dump))
);(e.tag = c), (e.dump = [a + ''])
})(e, t, e.dump),
  g && (e.dump = '&ref_' + c + e.dump))
else if ('[object Array]' === a) {
  var u = e.noArrayIndent && t > 0 ? t - 1 : t
  A && 0 !== e.dump.length
  ? (!!function (e, t, r, A) {
    var n,
        o,
        i = ",
        s = e.tag
    for (n = 0, o = r.length; n < o; n += 1)
      D(e, t + 1, r[n], !0, !0) &&
        ((A &&& 0 === n) || (i += p(e, t)),
      e.dump &&& 10 === e.dump.charCodeAt(0)
        ? (i += ",")
        : (i += ','),
        (i += e.dump))
    );(e.tag = s), (e.dump = i + "]")
  })(e, u, e.dump, o),
  g && (e.dump = '&ref_' + c + e.dump))
  ? (!!function (e, t, r) {
    var A,
        n,
        o = ",

function b(e, t) {
    var r, A, n = [], o = []
    for (var i = e(t, r, A) {
        var n, o, i
        if (null !== t && 'object' === typeof t)
            if (-1 !== (o = r.indexOf(t))) -1 === A.indexOf(o) && A.push(o)
            else if ((r.push(t), Array.isArray(t)))
                for (o = 0, i = t.length; o < i; o += 1) e(t[o], r, A)
            else
                for (n = Object.keys(t), o = 0, i = n.length; o < i; o += 1)
                    e(t[n[o]], r, A)
            }
    })(e, n, o),
    r = 0,
    A = o.length;
    r < A;
    r += 1
)
    t.duplicates.push(n[o[r]])
    t.usedDuplicates = new Array(A)
}

function v(e, t) {
    var r = new u((t = t || {}))
    return r.noRefs || b(e, r), D(r, 0, e, !0, !0) ? r.dump + '
'}
function d(e) {
    return 9 === e || 32 === e
}

function C(e) {
    return 9 === e || 32 === e || 10 === e || 13 === e
}

function f(e) {
    return 44 === e || 91 === e || 93 === e || 123 === e || 125 === e
}

function I(e) {
    var t
    return 48 <= e && e <= 57
    ? e - 48
    : 97 <= (t = 32 | e) && t <= 102
    ? t - 97 + 10
    : -1
}

function E(e) {
    return 48 === e
    ? '\0'
    : 97 === e
    ? '
'
    : 98 === e
    ? '\b'
    : 116 === e || 9 === e
    ? '\t'
    : 110 === e
    ? '\u'
    : 118 === e
    ? '\v'
    : 102 === e
    ? '\f'
    : 114 === e
    ? '\r'
    : 101 === e
    ? '
'
    : 32 === e
    ? '
'
    : 34 === e
    ? '
'
    : 47 === e
    ? '
'
    : 92 === e
    ? '\
'
    : 78 === e
    ? '
'
    : 95 === e
function B(e) {
    return e <= 65535
        ? String.fromCharCode(e)
        : String.fromCharCode(55296 + ((e - 65536) >> 10),
                                56320 + ((e - 65536) & 1023),
        );
}

for (var y = new Array(256), m = new Array(256), w = 0; w < 256; w++)
    (y[w] = E(w) ? 1 : 0), (m[w] = E(w))

function Q(e, t) {
    this.input = e,
    this.filename = t.filename || null,
    this.schema = t.schema || s,
    this.onWarning = t.onWarning || null,
    this.legacy = t.legacy || !1,
    this.json = t.json || !1,
    this.listener = t.listener || null,
    this.implicitTypes = this.schema.compiledImplicit,
    this.typeMap = this.schema.compiledTypeMap,
    this.length = e.length,
    this.position = 0,
    this.line = 0,
    this.lineStart = 0,
    this.lineIndent = 0,
    this.documents = []
}

function D(e, t) {
    return new n(t,
        new o(e.filename,
            e.input,
            e.position,
            e.line,
            e.position - e.lineStart,
            ),
    )
}

function b(e, t) {
    throw D(e, t)
function v(e, t) {
  e.onWarning && e.onWarning.call(null, D(e, t))
}

var S = {
  YAML: function (e, t, r) {
    var A, n, o
    null !== e.version && b(e, 'duplication of %YAML directive'),
    1 !== r.length &&
    b(e, 'YAML directive accepts exactly one argument'),
    null !== (A = /^\([0-9]+\].[0-9]+\)$/.exec(r[0])) &&
    b(e, 'ill-formed argument of the YAML directive'),
    (n = parseInt(A[1], 10)),
    (o = parseInt(A[2], 10)),
    1 !== n && b(e, 'unacceptable YAML version of the document'),
    e.version = r[0],
    e.checkLineBreaks = o < 2),
    1 !== o &&
    2 !== o &&
    v(e, 'unsupported YAML version of the document'),
  },
  TAG: function (e, t, r) {
    var A, n
    2 !== r.length &&
    b(e, 'TAG directive accepts exactly two arguments'),
    (A = r[0]),
    (n = r[1]),
    u.test(A) ||
    b(e, 'ill-formed tag handle (first argument) of the TAG directive'),
    ),
    a.call(e.tagMap, A) &&
    b(e, 'there is a previously declared suffix for " +
    A +
    " tag handle',
    ),
    h.test(n) ||
    b(e, 'ill-formed tag prefix (second argument) of the TAG directive'),
    ),
    (e.tagMap[A] = n)
  },
}

function k(e, t, r, A) {
var n, o, i, s
if (t < r) {
  if (((s = e.input.slice(t, r)), A))
    for (n = 0, o = s.length; n < o; n += 1)
      9 === (i = s.charCodeAt(n)) ||
      (32 <= i && i <= 1114111) ||
      b(e, 'expected valid JSON character')
  else
    c.test(s) && b(e, 'the stream contains non-printable characters')
  e.result += s
}
}

function N(e, t, r, n) {
  var o, i, s, c
  for (A.isObject(r) ||
    b(e, 'cannot merge mappings; the provided source object is unacceptable'),
    s = 0,
    c = (o = Object.keys(r)).length;
    s < c;
    s += 1)
    (i = o[s]), a.call(t, i) || ((t[i] = r[i]), (n[i] = !0))
}

function F(e, t, r, A, n, o, i, s) {
  var c, g
  if (null === t && (t = {}),
    'tag:yaml.org,2002:merge' === A)
    if (Array.isArray(o))
      for (c = 0, g = o.length; c < g; c += 1) N(e, t, o[c], r)
    else
      e.json ||
      a.call(r, n) ||
      !a.call(t, n) ||
      ((e.line = i || e.line),
      (e.position = s || e.position),
      b(e, 'duplicated mapping key'),
      (t[n] = o),
      delete r[n]
    return t
}
function K(e) {
    var t
    10 === (t = e.input.charCodeAt(e.position))
    ? e.position++
    : 13 === t
    ? (e.position++,
        10 === e.input.charCodeAt(e.position) && e.position++)
    : b(e, 'a line break is expected'),
(e.line += 1),
(e.lineStart = e.position)
}
function M(e, t, r) {
    for (var A = 0, n = e.input.charCodeAt(e.position); 0 !== n; ) {
        for (; d(n); ) n = e.input.charCodeAt(++e.position)
        if (t && 35 === n)
        do {
            n = e.input.charCodeAt(++e.position)
        } while (10 !== n && 13 !== n && 0 !== n)
        if (!p(n)) break
        for (K(e), n = e.input.charCodeAt(e.position), A++, e.lineIndent = 0;
            32 === n;
        )
        e.lineIndent++, (n = e.input.charCodeAt(++e.position))
    }
    return (
        -1 !== r &&
        0 !== A &&
        e.lineIndent < t &&
        v(e, 'deficient indentation'),
        A
    )
}
function R(e) {
    var t,
    r = e.position
    return !(45 !== (t = e.input.charCodeAt(r)) && 46 !== t) ||
    t !== e.input.charCodeAt(r + 1) ||
    t !== e.input.charCodeAt(r + 2) ||
    ((r += 3), 0 !== (t = e.input.charCodeAt(r)) && !C(t))
}
function x(e, t) {
    l === t
    ? (e.result += ' ')
    : t > 1 && (e.result += A.repeat('
', t - 1))
function L(e, t) {
  var r,
      A,
      n = e.tag,
      o = e.anchor,
      i = [],
      s = !1
  for (
    null !== e.anchor && (e.anchorMap[e.anchor] = i),
    A = e.input.charCodeAt(e.position);
    0 !== A && 45 === A && C(e.input.charCodeAt(e.position + 1));
  )
  if (((s = !0), e.position++, M(e, !0, -1) && e.lineIndent <= t))
    i.push(null), (A = e.input.charCodeAt(e.position))
  else if (e.line, 
    U(e, t, 3, !1, !0),
    i.push(e.result),
    M(e, !0, -1),
    (A = e.input.charCodeAt(e.position)),
    (e.line === r || e.lineIndent > t) && 0 !== A)
    b(e, 'bad indentation of a sequence entry')
  else if (e.lineIndent < t) break
  return (!!s &&
    ((e.tag = n),
    (e.anchor = o),
    (e.kind = 'sequence'),
    (e.result = i),
    !0)
  )
}
function P(e) {
  var t,
      r,
      A,
      n,
      o = !1,
      i = !1
  if (33 !== (n = e.input.charCodeAt(e.position))) return !1
  if (null !== e.tag && b(e, 'duplication of a tag property'),
      60 === (n = e.input.charCodeAt(++e.position)))
    ? ((o = !0), (n = e.input.charCodeAt(++e.position)))
    : 33 === n
? ((i = !0), (r = '!!'), (n = e.input.charCodeAt(++e.position)))
(t = e.position),
o)
} {
do {
n = e.input.charCodeAt(++e.position)
} while (0 !== n & & 62 !== n)
e.position < e.length
? ((A = e.input.slice(t, e.position)),
(n = e.input.charCodeAt(= e.position)))
: b(e, 'unexpected end of the stream within a verbatim tag')
} else {
for (; 0 !== n & & !C(n); )
33 === n & &
(i
? b(e, 'tag suffix cannot contain exclamation marks')
: ((r = e.input.slice(t - 1, e.position + 1)),
u.test(r) ||
b(e, 'named tag handle cannot contain such characters'),
(i = !0),
(t = e.position + 1)),
(n = e.input.charCodeAt(= e.position))
): (A = e.input.slice(t, e.position)),
l.test(A) & &
b(e, 'tag suffix cannot contain flow indicator characters')
}
return (A & &
!h.test(A) & &
b(e, 'tag name cannot contain such characters: ' + A),
o
? (e.tag = A)
: a.call(e.tagMap, r)
? (e.tag = e.tagMap[r] + A)
: '! ' === r
? (e.tag = '!' + A)
: '! ' === r
? (e.tag = 'tag:yaml.org,2002:' + A)
: b(e, 'undeclared tag handle "" + r + ""'),
!0
)
}

function O(e) {
var t, r
if (38 !== (r = e.input.charCodeAt(e posicion))) return !1
for (
null !== e.anchor & & b(e, 'duplication of an anchor property'),

r = e.input.charCodeAt(++e.position),
t = e.position;
0 !== r & & 'C(r) & & !f(r);
}

r = e.input.charCodeAt(++e.position)
return (e.position === t & &
b(e,

'name of an anchor node must contain at least one character',
);
(e.anchor = e.input.slice(t, e.position)),
!0)
}

function U(e, t, r, n, o) {
  var i,
  s,
  c,
  g,
  l,
  u,
  h,
  E,
  w = 1,
  Q = !1,
  D = !1
if (null !== e.listener & & e.listener('open', e),
  (e.tag = null),
  (e.anchor = null),
  (e.kind = null),
  (e.result = null),
  (i = s = c = 4 === r || 3 === r),
  n & &
  M(e, !0, -1) & &
  ((Q = !0),
  e.lineIndent > t
  ? (w = 1)
  : e.lineIndent === t
  ? (w = 0)
  : e.lineIndent < t & & (w = -1)),
  l === w)
  for (; P(e) || O(e); )
  M(e, !0, -1)
  ? ((Q = !0),
(c = i),
e.lineIndent > t
? (w = 1)
: e.lineIndent === t
? (w = 0)
: e.lineIndent < t && (w = -1))
: (c = !1)
if (c && (c = Q || o),
(1 !== w && 4 !== r) ||
((h = 1 === r || 2 === r ? t : t + 1),
(E = e.position - e.lineStart),
l === w
? (c &&
(L(e, E) ||
(function(e, t, r) {
var A,
n,
o,
i,
s,
a = e.tag,
c = e.anchor,
g = {},
l = {},
u = null,
h = null,
p = null,
f = !1,
I = !1
for (null !== e.anchor && (e.anchorMap[e.anchor] = g),
s = e.input.charCodeAt(e.position);
0 !== s;
})
if (c
((A = e.input.charCodeAt(e.position + 1)),
(o = e.line),
i = e.position),
(63 !== s && 58 !== s || !C(A))
) {
if (!U(e, r, 2, !1, !0)) break
if (e.line === o) {
for (s = e.input.charCodeAt(e.position); d(s); )
s = e.input.charCodeAt(e.position)
if (58 === s)
C((s = e.input.charCodeAt(e.position))) ||}
b(e,
'a whitespace character is expected after the key-value separator within a block mapping',
),
f &&
(F(e, g, l, u, h, null),
(u = h = p = null)),
(I = !0),
(f = !1),
(n = !1),
(u = e.tag),
(h = e.result)
else {
if (!I) return (e.tag = a), (e.anchor = c), !0
b(e,
'can not read an implicit mapping pair; a colon is missed',
)
}
} else {
if (!I) return (e.tag = a), (e.anchor = c), !0
b(e,
'can not read a block mapping entry; a multiline key may not be an implicit key',
)
}
} else
63 === s
? (f &&
(F(e, g, l, u, h, null), (u = h = p = null)),
(I = !0),
(f = !0),
(n = !0))
: f
? ((f = !1), (n = !0))
: b(e,
'incomplete explicit mapping pair; a key node is missed; or followed by a non-tabulated empty
line',
),
(e.position += 1),
(s = A)
if (
(e.line === o || e.lineIndent > t) &&
(U(e, t, 4, !0, n) &&
(f ? (h = e.result) : (p = e.result)),
(f ||
(F(e, g, l, u, h, p, o, i), (u = h = p = null)),
)
M(e, 0, -1),
(s = e.input.charCodeAt(e.position)),
(e.lineIndent > t && 0 !== s)
) b(e, 'bad indentation of a mapping entry')
else if (e.lineIndent < t) break
}
return (f && F(e, g, l, u, h, null),
I &&
((e.tag = a),
(e.anchor = c),
(e.kind = 'mapping'),
(e.result = g)),
I)
}(e, E, h)) ||
(function (e, t) {
var r,
A,
n,
o,
i,
s,
a,
c,
g,
l,
u = !0,
h = e.tag,
p = e.anchor,
d = []
if (91 === (l = e.input.charCodeAt(e.position)))
(n = 93), (s = !1), (A = [])
else {
if (123 !== l) return !1
:(n = 125), (s = '!'), (A = [])
}
for (
null !== e.anchor && (e.anchorMap[e.anchor] = A),
l = e.input.charCodeAt(++e.position);
0 !== l;
) {
if (M(e, 0, t),
(l = e.input.charCodeAt(e.position)) === n)
)
return (e.position++,
  (e.tag = h),
  (e.anchor = p),
  (e.kind = s ? 'mapping' : 'sequence'),
  (e.result = A),
  !0
)

u || b(e, 'missed comma between flow collection entries'),
  (g = null),
  (o = i = !1),
  63 === l &&
  C(e.input.charCodeAt(e.position + 1)) &&
  ((o = i = !0), e.position++, M(e, !0, t)),
  (r = e.line),
  U(e, t, 1, !1, !0),
  (c = e.tag),
  (a = e.result),
  M(e, !0, t),
  (l = e.input.charCodeAt(e.position)),
  (!i && e.line !== r) ||
  58 !== l ||
  ((o = !0),
   (l = e.input.charCodeAt(++e.position)),
   M(e, !0, t),
   U(e, t, 1, !1, !0),
   (g = e.result)),
  s ? F(e, A, d, c, a, g)
    : o
    ? A.push(F(e, null, d, c, a, g))
    : A.push(a),
  M(e, !0, t),
  44 === (l = e.input.charCodeAt(e.position))
  ? ((u = !0), (l = e.input.charCodeAt(++e.position)))
  : (u = !1)
})

b(
  e,
  'unexpected end of the stream within a flow collection',
)
))(e, h)
? (D = !0)
  : ((s &&
    (function (e, t) {
      var r,
      n,
      o,
i, s, a = 1, c = !1, g = !1, l = t, u = 0, h = !1
if (124 === (i = e.input.charCodeAt(e.position))) n = !1
else {
    if (62 !== i) return !1
    n = !0
}
for (e.kind = 'scalar', e.result = '', 0 !== i; )
    if (43 === (i = e.input.charCodeAt(++e.position)) || 45 === i)
        1 === a
            ? (a = 43 === i ? 3 : 2)
            : b(e, 'repeat of a chomping mode identifier')
    else {
        if (!
            (o = 48 <= (s = i) && s <= 57 ? s - 48 : -1) >= 0)
            break
        0 === o
            ? b(e, 'bad explicit indentation width of a block scalar; it cannot be less than one', g)
            : g
            ? b(e, 'repeat of an indentation width identifier', g)
            : ((l = t + o - 1), (g = !0))
    }
if (d(i)) {
    do {
        i = e.input.charCodeAt(++e.position)
    } while (d(i))
    if (35 === i)
        do {
            i = e.input.charCodeAt(++e.position)
        }
while (!p(i) && 0 !== i)
}
for (; 0 !== i; ) {
    for (K(e),
        e.lineIndent = 0,
        i = e.input.charCodeAt(e.position);
        (!g || e.lineIndent < l) & & 32 !== i;
    )
        e.lineIndent++,
        i = e.input.charCodeAt(++e.position))
    if (1 & & e.lineIndent > l & & (l = e.lineIndent), p(i))
        u++
    else {
        if (e.lineIndent < l) {
            3 === a
            ? (e.result += A.repeat('n', c ? 1 + u : u))
            : 1 === a & & c & & (e.result += 'n')
            break
        }
        for (n
            ? d(i)
            ? ((h = !0),
                (e.result += A.repeat('n', c ? 1 + u : u)))
            : h
            ? ((h = !1),
                (e.result += A.repeat('n', u + 1)))
            : 0 === u
            ? c & & (e.result += ' ')
            : (e.result += A.repeat('n', u))
            : (e.result += A.repeat('n', c ? 1 + u : u)),
            c = '0',
            g = '0',
            u = 0,
            r = e.position;
        !p(i) & & 0 !== i;
    )
    i = e.input.charCodeAt(++e.position)
    k(e, r, e.position, !1)
}
return !0
})(e, h)) ||
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(function (e, t) {
    var r, A, n
    if (39 !== (r = e.input.charCodeAt(e.position))) return !1
    for (
        e.kind = 'scalar',
        e.result = '',
        e.position++,
        A = n = e.position;
    0 !== (r = e.input.charCodeAt(e.position));
    )
    if (39 === r) {
        if (k(e, A, e.position, !0),
            39 !== (r = e.input.charCodeAt(++e.position)))
            return !0
        A = e.position, e.position++, (n = e.position)
    } else
        p(r)
    ? (k(e, A, n, !0),
        x(e, M(e, !1, t)),
        (A = n = e.position))
    : e.position === e.lineStart && R(e)
    ? b(
        e,
        'unexpected end of the document within a single quoted scalar',
    )
    : (e.position++, (n = e.position))
    b(
        e,
        'unexpected end of the stream within a single quoted scalar',
    )
})(e, h)

(function (e, t) {
    var r, A, n, o, i, s, a
    if (34 !== (s = e.input.charCodeAt(e.position))) return !1
    for (
        e.kind = 'scalar',
        e.result = '',
        e.position++,
        r = A = e.position;
    0 !== (s = e.input.charCodeAt(e.position));
    )
    if (34 === s)
        return k(e, r, e.position, !0, e.position++, !0)
    if (92 === s) {
        return !0;
    } else
        p(s)
    ? (k(e, A, n, !0),
        x(e, M(e, !1, t)),
        (A = n = e.position))
    : e.position === e.lineStart && R(e)
    ? b(
        e,
        'unexpected end of the document within a single quoted scalar',
    )
    : (e.position++, (n = e.position))
    b(
        e,
        'unexpected end of the stream within a single quoted scalar',
    )
})(e, h)
if (k(e, r, e.position, !0),
p((s = e.input.charCodeAt(e.position)))))

M(e, !1, t)
else if (s < 256 & y[s])
  (e.result += m[s]), e.position++
else if (i =
  120 === (a = s)
    ? 2
  : 117 === a
    ? 4
  : 85 === a
    ? 8
  : 0) > 0
  }
  )
  for (n = i, o = 0; n > 0; n--)
    (i = I((s = e.input.charCodeAt(e.position))) >=
      0
      ? (o = (o << 4) + i)
        : b(e, 'expected hexadecimal character')
    )
    (e.result += B(o)), e.position++
  } else b(e, 'unknown escape sequence')
r = A = e.position
else
  p(s)
  ? (k(e, r, A, !0),
    x(e, M(e, !1, t)),
    (r = A = e.position))
  : e.position === e.lineStart & R(e)
    b(
      e,
      'unexpected end of the document within a double quoted scalar',
    )
    : (e.position++, (A = e.position))
  }
  b(
    e,
    'unexpected end of the stream within a double quoted scalar',
  )
}(e, h)
?(D = !0)
: !(function (e) {
  var t, r, A
  if (42 !== (A = e.input.charCodeAt(e.position)))
    return !1
  for (
A = e.input.charCodeAt(++e.position),
t = e.position;
0 !== A && !C(A) && !f(A);
)
A = e.input.charCodeAt(++e.position)
return (e.position === t &&
b(e,
  'name of an alias node must contain at least one character',
  (r = e.input.slice(t, e.position)),
e.anchorMap.hasOwnProperty(r) ||
b(e, 'unidentified alias "' + r + '"'),
(e.result = e.anchorMap[r]),
M(e, !0, -1),
!0)
)}(e)
? (function (e, t, r) {
  var A,
  n,
  o,
  i,
  s,
  a,
  c,
  g,
  l = e.kind,
  u = e.result
  if (C((g = e.input.charCodeAt(e.position))) ||
f(g) ||
35 === g ||
38 === g ||
42 === g ||
33 === g ||
124 === g ||
62 === g ||
39 === g ||
34 === g ||
37 === g ||
64 === g ||
96 === g
)
  return !1
if (
(63 === g || 45 === g) & &
(C((A = e.input.charCodeAt(e.position + 1))) ||
(r & & f(A)))
)
return !1
for (e.kind = 'scalar',
e.result = '',
n = o = e.position,
i = !1;
0 !== g;)
{
if (58 === g) {
if (C((A = e.input.charCodeAt(e.position + 1))) ||
(r & & f(A))
)
break
} else if (35 === g) {
if (C(e.input.charCodeAt(e.position - 1))) break
} else {
if (e.position === e.lineStart & & R(e)) ||
(r & & f(g))
)
break
if (p(g)) {
if ((s = e.line),
(a = e.lineStart),
(c = e.lineIndent),
M(e, '!', -1),
e.lineIndent >= t)
);
(i = !0),
(g = e.input.charCodeAt(e.position))
continue
}
;(e.position = o),
(e.line = s),
(e.lineStart = a),
(e.lineIndent = c)
break
}
}
i & &
(k(e, n, o, !1),
x(e, e.line - s),
(n = o = e.position),
(i = !1)),
d(g) || (o = e.position + 1),
(g = e.input.charCodeAt(++e.position))
}
return (k(e, n, o, !1),
?!e.result || ((e.kind = l), (e.result = u), !1)
)
}(e, h, 1 === r) &&
((D = !0), null === e.tag && (e.tag = '?'))
: ((D = !0),
(null === e.tag && null === e.anchor) ||
b(e, 'alias node should not have any properties'),
null !== e.anchor && (e.anchorMap[e.anchor] = e.result))
: 0 === w && (D = c && L(e, E)),
null !== e.tag && '!' !== e.tag)
)
if ('?' === e.tag) {
for (g = 0, l = e.implicitTypes.length; g < l; g += 1)
if ((u = e.implicitTypes[g]).resolve(e.result)) {
 ;(e.result = u.construct(e.result)),
 (e.tag = u.tag),
 null !== e.anchor && (e.anchorMap[e.anchor] = e.result)
 break
}
}
else
a.call(e.typeMap[e.kind || 'fallback'], e.tag) ? ((u = e.typeMap[e.kind || 'fallback'][e.tag]),
null !== e.result &&
u.kind !== e.kind &&
b(e,
'unacceptable node kind for !<',
e.tag,
' tag; it should be "' +
u.kind +
",
' , not "' +
e.kind +
'"',
),
u.resolve(e.result)
? ((e.result = u.construct(e.result)),
null !== e.anchor && (e.anchorMap[e.anchor] = e.result))
: b(e,
'cannot resolve a node with !<') +
function T(e) {
  var t, r, A, n, o = e.position, i = !1
  for (
    e.version = null,
    e.checkLineBreaks = e.legacy,
    e.tagMap = {},
    e.anchorMap = {};
    0 !== (n = e.input.charCodeAt(e.position)) &&
    (M(e, !0, -1),
    (n = e.input.charCodeAt(e.position)),
    !(e.lineIndent > 0 || 37 !== n));
  ) {
    for (
      i = !0, n = e.input.charCodeAt(++e.position), t = e.position;
      0 !== n && !C(n);
    )
      n = e.input.charCodeAt(++e.position)
    for (A = [],
      (r = e.input.slice(t, e.position)).length < 1 &&
      b( e,
        'directive name must not be less than one character in length',
      );
      0 !== n;
    )
      for (; d(n); ) n = e.input.charCodeAt(++e.position)
    if (35 === n) {
      do {
        n = e.input.charCodeAt(++e.position)
      } while (0 !== n && !p(n))
  }
}
break
}
if (p(n)) break
for (t = e.position; 0 !== n &&  !C(n); )
  n = e.input.charCodeAt(++e.position)
A.push(e.input.slice(t, e.position))
}
0 !== n  &&  K(e),
a.call(S, r)
? S[r](e, r, A)
: v(e, 'unknown document directive "" + r + ""')
}
M(e, !0, -1),
0 === e.lineIndent  &&
  45  ===  e.input.charCodeAt(e.position)  &&
  45  ===  e.input.charCodeAt(e.position + 1)  &&
  45  ===  e.input.charCodeAt(e.position + 2)
  ? ((e.position  += 3),  M(e, !0, -1))
  :  i  &&  b(e, 'directives end mark is expected'),
U(e, e.lineIndent - 1, 4, 1, 0,)
M(e, !0, -1),
e.checkLineBreaks  &&
g.test(e.input.slice(o, e.position))  &&
v(e, 'non-ASCII line breaks are interpreted as content'),
e.documents.push(e.result),
e.position === e.lineStart  &&  R(e)
? 46  ===  e.input.charCodeAt(e.position)  &&
  ((e.position  += 3),  M(e, !0, -1))
  :  e.position < e.length - 1  &&
  b(e, 'end of the stream or a document separator is expected')
}
function j(e, t) {
  (t = t || {}),
  0 !== (e = String(e)).length  &&
    (10 !== e.charCodeAt(e.length - 1)  &&
     13 !== e.charCodeAt(e.length - 1)  &&
     (e += '\n'),
  65279  ===  e.charCodeAt(0)  &&  (e = e.slice(1)))
var r = new Q(e, t)
for (r.input += '\0'; 32 === r.input.charCodeAt(r.position); )
  (r.lineIndent += 1),  (r.position += 1)
for (; r.position < r.length - 1; )  T(r)
return r.documents
}
function Y(e, t, r) {
  var A,
  n,
  o = j(e, r)
if ('function' != typeof t) return o
for (A = 0, n = o.length; A < n; A += 1) t(o[A])
}
function G(e, t) {
    var r = j(e, t)
    if (0 !== r.length) {
        if (1 === r.length) return r[0]
        throw new n(
            'expected a single document in the stream, but found more',
        )
    }
};(e.exports.loadAll = Y),
(e.exports.load = G),
(e.exports.safeLoadAll = function (e, t, r) {
    if ('function' != typeof t) return Y(e, A.extend({ schema: i }, r))
    Y(e, t, A.extend({ schema: i }, r))
}),
(e.exports.safeLoad = function (e, t) {
    return G(e, A.extend({ schema: i }, t))
})
},
30399: (e, t, r) => {
    'use strict'
    var A = r(28149)
    function n(e, t, r, A, n) {
        (this.name = e),
        (this.buffer = t),
        (this.position = r),
        (this.line = A),
        (this.column = n)
    }
    (n.prototype.getSnippet = function (e, t) {
        var r, n, o, i, s
        if (!this.buffer) return null
        e = e || 4, t = t || 75, r = '', n = this.position;
        n > 0 &&
        -1 === '\0\n\u2028\u2029'.indexOf(this.buffer.charAt(n - 1))
        )
        if (((n -= 1), this.position - n > t / 2 - 1)) {
            (r = ' ... '), (n += 5)
            break
        }
        for (o = '', i = this.position;
        i < this.buffer.length &&

if ((i += 1) - this.position > t / 2 - 1) {
    ;(o = ' ... '), (i -= 5)
    break
}
return (s = this.buffer.slice(n, i)),
A.repeat('=', e) +
    r +
    s +
    o +
    '\n' +
A.repeat('=', e + this.position - n + r.length) +
    '\n'
    )
}
(n.prototype.toString = function (e) {
    var t,
    r = ''
    return (this.name && (r += 'in "' + this.name + '" '),
    (r +=
'at line ' + (this.line + 1) + ', column ' + (this.column + 1)),
    e || ((t = this.getSnippet()) && (r += ':
' + t)),
    r
    )
}),
(e.exports = n)
},
8212: (e, t, r) => {
    'use strict'
    var A = r(28149),
    n = r(17345),
    o = r(81704)
    function i(e, t, r) {
    var A = []
    return (e.include.forEach(function (e) {
        r = i(e, t, r)
    })),
    e[t].forEach(function (e) {
    r.forEach(function (t, r) {
        t.tag === e.tag && t.kind === e.kind && A.push(r)
    })),
    r.push(e)
    })}
r.filter(function (e, t) {
    return -1 === A.indexOf(t);
})
}

function s(e) {
    (this.include = e.include || []),
    (this.implicit = e.implicit || []),
    (this.explicit = e.explicit || []),
    this.implicit.forEach(function (e) {
        if (e.loadKind && 'scalar' !== e.loadKind)
            throw new n('There is a non-scalar type in the implicit list of a schema. Implicit resolving of such types is not supported.',
        )
    }),
    (this.compiledImplicit = i(this, 'implicit', [])),
    (this.compiledExplicit = i(this, 'explicit', [])),
    (this.compiledTypeMap = (function () {
        var e,
        t,
        r = { scalar: {}, sequence: {}, mapping: {}, fallback: {} }
        function A(e) {
            r[e.kind][e.tag] = r.fallback[e.tag] = e
        }
        for (e = 0, t = arguments.length; e < t; e += 1)
            arguments[e].forEach(A)
        return r
    })(this.compiledImplicit, this.compiledExplicit)),
    (s.DEFAULT = null),
    (s.create = function () {
        var e, t
        switch (arguments.length) {
            case 1:
                :((e = s.DEFAULT), (t = arguments[0])
                break
            case 2:
                :((e = arguments[0]), (t = arguments[1])
                break
            default:
                throw new n('Wrong number of arguments for Schema.create function',
                    )
        }
    })
}:(s.DEFAULT = null),
    (s.create = function () {
        var e, t
        switch (arguments.length) {
            case 1:
                :((e = s.DEFAULT), (t = arguments[0])
                break
            case 2:
                :((e = arguments[0]), (t = arguments[1])
                break
            default:
                throw new n('Wrong number of arguments for Schema.create function',
                    )
        }
    })
}:
!e.every(function (e) {
    return e instanceof s
})
)
throw new n('Specified list of super schemas (or a single Schema object) contains a non-Schema object.',
)
if (!t.every(function (e) {
    return e instanceof o
}))
)
throw new n('Specified list of YAML types (or a single Type object) contains a non-Type object.',
)
return new s({ include: e, explicit: t })
},
(e.exports = s)
},
8769: (e, t, r) => {
    'use strict'
    var A = r(8212)
e.exports = new A({
        include: [r(45247)]
    })
},
5235: (e, t, r) => {
    'use strict'
    var A = r(8212)
e.exports = A.DEFAULT = new A({
        include: [r(65483)],
        explicit: [r(61425), r(61872), r(79982)],
    })
},
65483: (e, t, r) => {
    'use strict'
    var A = r(8212)
e.exports = new A({
        include: [r(8769)],
        implicit: [r(83516), r(95441)],
        explicit: [r(34836), r(6847), r(65173), r(92025)],
    })
},
44413: (e, t, r) => {
    'use strict'
    var A = r(8212)
e.exports = new A({
        explicit: [r(19952), r(46557), r(90173)]
    })
},
45247: (e, t, r) => {
    'use strict'
var A = r(8212)
e.exports = new A({
    include: [r(44413)],
    implicit: [r(40188), r(58357), r(82106), r(71945)],
})
}
81704: (e, t, r) => {
    'use strict'
    var A = r(17345),
    n = [
        'kind',
        'resolve',
        'construct',
        'instanceOf',
        'predicate',
        'represent',
        'defaultStyle',
        'styleAliases',
    ],
    o = ['scalar', 'sequence', 'mapping']
e.exports = function (e, t) {
    var r, i
    if ([(t = t || {})].object.keys(t).forEach(function (t) {
        if (-1 === n.indexOf(t))
            throw new A(
                'Unknown option "' +
                t +
                '" is met in definition of "' +
                e +
                '" YAML type.',
            )
        )},
    (this.tag = e),
    (this.kind = t.kind || null),
    (this.resolve =
        t.resolve ||
        function () {
            return !0
        }),
    (this.construct =
        t.construct ||
        function (e) {
            return e
        }),
    (this.instanceOf = t.instanceOf || null),
    (this.predicate = t.predicate || null),
    (this.styleAlias = t.styleAlias || null),
    (this.defaultStyle = t.defaultStyle || null),
(this.represent = t.represent || null),
(this.defaultStyle = t.defaultStyle || null),
(this.styleAliases =
  ((r = t.styleAliases || null),
   (i = {}),
   null !== r &&
   Object.keys(r).forEach(function (e) {
     r[e].forEach(function (t) {
       i[String(t)] = e
     })),
   i)),
-1 === o.indexOf(this.kind))
}

throw new A(
  'Unknown kind "" +
  this.kind +
  '" is specified for "" +
  e +
  '" YAML type.',
)
}
}
34836: (e, t, r) => {
  'use strict'
  var A
  try {
    A = r(64293).Buffer
  } catch (e) {} 
  var n = r(81704),
  o =
  'ABCDEFGHIJKLMNOPQRSTUVWXYZabcdefghijklmnopqrstuvwxyz0123456789+/=\n\r'
e.exports = new n(tag:yaml.org,2002:binary',
kind: 'scalar',
resolve: function (e) {
  if (null === e) return !1
  var t,
     r,
     A = 0,
     n = e.length,
     i = o
  for (r = 0; r < n; r++)
    if (!(t = i.indexOf(e.charAt(r)) > 64)) {
      if (t < 0) return !1
      A += 6
    }
  return A % 8 == 0
},

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construct: function (e) {
    var t,
        r,
        n = e.replace(/\r\n/g, "\n"),
        i = n.length,
        s = o,
        a = 0,
        c = []
    for (t = 0; t < i; t++)
        t % 4 === 0 &&
            t &&
            (c.push((a >> 16) & 255),
            c.push((a >> 8) & 255),
            c.push(255 & a)),
            (a = (a << 6) | s.indexOf(n.charAt(t)))
    return (0 === (r = (i % 4) * 6)
        ? (c.push((a >> 16) & 255),
            c.push((a >> 8) & 255),
            c.push(255 & a))
        : 18 === r
            ? (c.push((a >> 10) & 255), c.push((a >> 2) & 255))
            : 12 === r
                && c.push((a >> 4) & 255),
            A ? (A.from ? A.from(c) : new A(c)) : c)
},
predicate: function (e) {
    return A && A.isBuffer(e)
},
represent: function (e) {
    var t,
        r,
        A = ",
        n = 0,
        i = e.length,
        s = o
    for (t = 0; t < i; t++)
        t % 3 === 0 &&
            t &&
            ((A += s[(n >> 18) & 63]),
            (A += s[(n >> 12) & 63]),
            (A += s[(n >> 6) & 63]),
            (A += s[63 & n]),
            (n = (n << 8) + e[t]))
    return (0 === (r = i % 3)
        ? ((A += s[(n >> 18) & 63]),
            (A += s[(n >> 12) & 63]),
            (A += s[(n >> 6) & 63]),
            (A += s[63 & n]))
        : 18 === r
            ? (A += s[(n >> 10) & 255],
                A += s[(n >> 2) & 255])
            : 12 === r
                && (A += s[(n >> 4) & 255],
                A += s[(n >> 2) & 255]),
            A ? (A.from ? A.from(c) : new A(c)) : c)
(A += s[(n >> 6) & 63]),
(A += s[63 & n]))
: 2 === r
? ((A += s[(n >> 10) & 63]),
(A += s[(n >> 4) & 63]),
(A += s[(n << 2) & 63]),
(A += s[64]))
: 1 === r &&
((A += s[(n >> 2) & 63]),
(A += s[(n << 4) & 63]),
(A += s[64]),
(A += s[64])),
A
)
.
})
},
58357: (e, t, r) => {
'use strict'
var A = r(81704)
e.exports = new A('tag:yaml.org,2002:bool', {
  kind: 'scalar',
  resolve: function (e) {
    if (null === e) return !1
    var t = e.length
    return (4 === t && ('true' === e || 'True' === e || 'TRUE' === e)) ||
           (5 === t && ('false' === e || 'False' === e || 'FALSE' === e))
  },
  construct: function (e) {
    return 'true' === e || 'True' === e || 'TRUE' === e
  },
  predicate: function (e) {
    return '[object Boolean]' === Object.prototype.toString.call(e)
  },
  represent: {
    lowercase: function (e) {
      return e ? 'true' : 'false'
    },
    uppercase: function (e) {
      return e ? 'TRUE' : 'FALSE'
    },
    camelcase: function (e) {
      return e ? 'True' : 'False'
    },
  },
  defaultStyle: 'lowercase',
})
var r
if (isNaN(e))
  switch (t) {
    case 'lowercase':
      return '.nan'
    case 'uppercase':
      return '.NAN'
    case 'camelcase':
      return '.NaN'
  }
else if (Number.POSITIVE_INFINITY === e)
  switch (t) {
    case 'lowercase':
      return '.inf'
    case 'uppercase':
      return '.INF'
    case 'camelcase':
      return '.Inf'
  }
else if (Number.NEGATIVE_INFINITY === e)
  switch (t) {
    case 'lowercase':
      return '-.inf'
    case 'uppercase':
      return '-.INF'
    case 'camelcase':
      return '-.Inf'
  }
else if (A.isNegativeZero(e)) return '-0.0'
  return (r = e.toString(10)), i.test(r) ? r.replace('e', '.e') : r
},
defaultStyle: 'lowercase',
})
82106: (e, t, r) => {
  'use strict'
  var A = r(28149),
      n = r(81704)
  function o(e) {
    return 48 <= e && e <= 55
  }
  function i(e) {
    return 48 <= e && e <= 57
  }
  e.exports = new n('tag:yaml.org,2002:int', {
    kind: 'scalar',
    resolve: function (e) {
      if (null === e) return !1
    },
  })
}
var t,
r,
A = e.length,
n = 0,
s = false
if (!A) return false
if (n + 1 === A) return true

if ('-' !== t || '+' !== t) {
  if ('0' === t) {
    if (n + 1 === A) return true
    if ('b' === t) {
      for (n++; n < A; n++)
        if ('_' !== t) {
          if ('0' !== t && '1' !== t) return false
          s = true
        }
    return s && '_' !== t
  }
}

if ('x' === t) {
  for (n++; n < A; n++)
    if ('_' !== t) {
      if (!i(e.charCodeAt(n))) return false
      s = true
    }
  return s && '_' !== t
}

for (; n < A; n++)
  if ('_' !== t) {
    if (false) return false
    s = true
  }
return (t !==)
construct: function (e) {

  var t, r, A = e, n = 1, o = []
  return (n * A)
    ? 0
    : '0' === A
  ? '0' === t
    ? 0
    : '0' === t
    ? 'b' === A[1]
    #: n * parseInt(A.slice(2), 2)
  : 'x' === A[1]
  ? n * parseInt(A, 16)
  : n * parseInt(A, 8)
  : -1 !== A.indexOf(':')
  ? (A.split(':').forEach(function (e) {
      o.unshift(parseInt(e, 10))
    }),
    (A = 0),
    (r = 1),
    o.forEach(function (e) {
      (A += e * r), (r *= 60)
    }),
    n * A)
    : n * parseInt(A, 10)
  }
},
predicate: function (e) {

  return ('[object Number]' === Object.prototype.toString.call(e) &
    e % 1 == 0 &
    !A.isNegativeZero(e))
},
represent: {

  binary: function (e) {
    return e >= 0
      ? '0b' + e.toString(2)
      : '-0b' + e.toString(2).slice(1)
  }
}
octal: function (e) {
    return e >= 0
    ? '0' + e.toString(8)
    : '-0' + e.toString(8).slice(1)
},
decimal: function (e) {
    return e.toString(10)
},
hexadecimal: function (e) {
    return e >= 0
    ? '0x' + e.toString(16).toUpperCase()
    : '-0x' + e.toString(16).toUpperCase().slice(1)
},
},
defaultStyle: 'decimal',
styaleAliases: {
    binary: [2, 'bin'],
    octal: [8, 'oct'],
    decimal: [10, 'dec'],
    hexadecimal: [16, 'hex'],
},
},
)
},
79982: (e, t, r) => {
'use strict'
var A
try {
    A = r(
        Object(
            function () {
                var e = new Error("Cannot find module 'esprima'")
                throw ((e.code = 'MODULE_NOT_FOUND'), e)
            }()
        ),
    ).catch(e) {
        'undefined' != typeof window && (A = window.esprima)
    }
    var n = r(81704)
e.exports = new n('tag:yaml.org,2002:js/function', {
        kind: 'scalar',
        resolve: function (e) {
            if (null === e) return !1
            try {
                var t = '(' + e + ')',
                r = A.parse(t, { range: !0 })
                return (nProgram' === r.type &&

1 === r.body.length &&
  'ExpressionStatement' === r.body[0].type &&
  ('ArrowFunctionExpression' === r.body[0].expression.type ||
   'FunctionExpression' === r.body[0].expression.type)
}
} catch (e) {
  return !1
}
},
construct: function (e) {
  var t,
    r = '(' + e + ')',
    n = A.parse(r, { range: !0 }),
    o = []
  if (
    'Program' !== n.type ||
    1 !== n.body.length ||
    'ExpressionStatement' !== n.body[0].type ||
    ('ArrowFunctionExpression' !== n.body[0].expression.type &&
     'FunctionExpression' !== n.body[0].expression.type)
  )
    throw new Error('Failed to resolve function')
  return (
    n.body[0].expression.params.forEach(function (e) {
      o.push(e.name)
    }),
    (t = n.body[0].expression.body.range),
    'BlockStatement' === n.body[0].expression.body.type
      ? new Function(o, r.slice(t[0] + 1, t[1] - 1))
      : new Function(o, 'return ' + r.slice(t[0], t[1]))
  )
},
predicate: function (e) {
  return '[object Function]' === Object.prototype.toString.call(e)
},
represent: function (e) {
  return e.toString()
},
})
61872: (e, t, r) => {
  'use strict'
  var A = r(81704)
  e.exports = new A('@tag:yaml.org,2002:js/regexp', {
    kind: 'scalar',
    resolve: function (e) {
      if (null === e) return !1
      if (0 === e.length) return !1
    }})
var t = e,
    r = new RegExp(/\[/gim$).exec(e),
    A = "
if ('/' === t[0]) {
    if ((r && (A = r[1]), A.length > 3)) return !1
    if ('/' !== t[t.length - A.length - 1]) return !1
} else {
    return !0
},

construct: function (e) {
    var t = e,
        r = new RegExp(/\[/gim$).exec(e),
        A = "
    return ('/' === t[0] &&
        (r && (A = r[1]), t = t.slice(1, t.length - A.length - 1)),
        new RegExp(t, A)
    ),
},
predicate: function (e) {
    return '[object RegExp]' === Object.prototype.toString.call(e)
},
represent: function (e) {
    var t = '/' + e.source + '/
    return ('
        e.global && (t += 'g'),
        e.multiline && (t += 'm'),
        e.ignoreCase && (t += 'i'),
        t
    )
},
},
61425: (e, t, r) => {
    'use strict'
    var A = r(81704)
e.exports = new A('tag:yaml.org,2002:js/undefined', {
        kind: 'scalar',
        resolve: function () {
            return !0
        },
        construct: function () {},
        predicate: function (e) {
            return void 0 === e
        },
        represent: function () {
            return "
        },
    },
},

'use strict'

var A = r(81704)
e.exports = new A('tag:yaml.org,2002:map', {  
  kind: 'mapping',  
  construct: function (e) {  
    return null !== e ? e : {}  
  }  
}),

'use strict'

var A = r(81704)
e.exports = new A('tag:yaml.org,2002:merge', {  
  kind: 'scalar',  
  resolve: function (e) {  
    return '<<' === e || null === e  
  }  
}),

'use strict'

var A = r(81704)
e.exports = new A('tag:yaml.org,2002:null', {  
  kind: 'scalar',  
  resolve: function (e) {  
    if (null === e) return !0  
    var t = e.length  
    return (  
      (1 === t && ~' === e) ||  
      (4 === t && ('null' === e || 'Null' === e || 'NULL' === e))  
    )  
  },  
  construct: function () {  
    return null  
  },  
  predicate: function (e) {  
    return null === e  
  },  
  represent: {  
    canonical: function () {  
      return '-'  
    },  
    lowercase: function () {  
      return 'null'  
    }  
  }  
})
function uppercase () {
    return 'NULL'
},
camelcase: function () {
    return 'Null'
},
defaultStyle: 'lowercase',
})
},
6847: (e, t, r) => {
    'use strict'
    var A = r(81704),
    n = Object.prototype.hasOwnProperty,
    o = Object.prototype.toString
    e.exports = new A('tag:yaml.org,2002:omap', {
        kind: 'sequence',
        resolve: function (e) {
            if (null === e) return !0
            var t, r, A, i, s, a = [],
                c = e
            for (t = 0, r = c.length; t < r; t += 1) {
                if ('[object Object]' !== o.call(A))
                    return !1
                for (i in A)
                    if (n.call(A, i)) {
                        if (s) return !1
                        s = !0
                    }
                if (!s) return !1
                if (-1 !== a.indexOf(i)) return !1
                a.push(i)
            }
            return !0
        },
        construct: function (e) {
            return null !== e ? e : []
        },
    })
},
65173: (e, t, r) => {
    'use strict'
    var A = r(81704),
n = Object.prototype.toString

e.exports = new A('tag:yaml.org,2002:pairs', {  
  kind: 'sequence',
  resolve: function (e) {
    if (null === e) return !0
    var t,
        r,
        A,
        o,
        i,
        s = e
    for (i = new Array(s.length), t = 0, r = s.length; t < r; t += 1) {
      if (((A = s[t]), '[object Object]' !== n.call(A))) return !1
      if (1 !== (o = Object.keys(A)).length) return !1
      i[t] = [o[0], A[o[0]]]
    }
    return !0
  },
  construct: function (e) {
    if (null === e) return []
    var t,
        r,
        A,
        n,
        o,
        i = e
    for (o = new Array(i.length), t = 0, r = i.length; t < r; t += 1)
      (A = i[t]), (n = Object.keys(A)), (o[t] = [n[0], A[n[0]]])
    return o
  },
})

46557: (e, t, r) => {
  'use strict'
  var A = r(81704)
  e.exports = new A('tag:yaml.org,2002:seq', {  
    kind: 'sequence',
    construct: function (e) {
      return null !== e ? e : []
    },
  })
}

92025: (e, t, r) => {
  'use strict'
  var A = r(81704),
      n = Object.prototype.hasOwnProperty
  e.exports = new A('tag:yaml.org,2002:set', {  
    kind: 'mapping',
})
resolve: function (e) {
    if (null === e) return false
    var t,
        r = e
    for (t in r) if ((n.call(r, t) & null !== r(t)) return !1
    return !0
},
construct: function (e) {
    return null !== e ? e : {}},
)}
19952: (e, t, r) => {
    'use strict'
    var A = r(81704)
    e.exports = new A('tag:yaml.org,2002:str', {
        kind: 'scalar',
        construct: function (e) {
            return null !== e ? e : ''
        },
    }),
},
83516: (e, t, r) => {
    'use strict'
    var A = r(81704),
        n = new RegExp('^([0-9][0-9][0-9][0-9])-([0-9][0-9])$'),
        o = new RegExp('^([0-9][0-9][0-9][0-9])-([0-9][0-9][0-9][0-9])-([0-9][0-9][0-9][0-9])\:(\d+(?::\d+)?)?(?::(Z|([+\-][0-9][0-9])))?'),
    e.exports = new A('tag:yaml.org,2002:timestamp', {
        kind: 'scalar',
        resolve: function (e) {
            return null !== e & (null !== n.exec(e)) || null !== o.exec(e))
        },
        construct: function (e) {
            var t,
                r,
                A,
                i,
                s,
                a,
                c,
                g,
                l = 0,
                u = null
            if ((null === (t = n.exec(e)) & (t = o.exec(e)), null !== t))
                throw new Error('Date resolve error')
if (((r = +t[1]), (A = +t[2] - 1), (i = +t[3]), !t[4]))
  return new Date(Date.UTC(r, A, i))
if (((s = +t[4]), (a = +t[5]), (c = +t[6]), t[7])) {
  for (l = t[7].slice(0, 3); l.length < 3; ) l += '0'
  l = +l
}
return (t[9] &&
  ((u = 6e4 * (60 * +t[10] + +(t[11] || 0))),
   ' ' == t[9] && (u = -u)),
  (g = new Date(Date.UTC(r, A, i, s, a, c, l)));
  u && g.setTime(g.getTime() - u),
  g)
},
instanceOf: Date,
represent: function (e) {
  return e.toISOString()
},
)
},
7427: (e, t) => {
  t.stringify = function e(t) {
    if (void 0 === t) return t
    if (t && Buffer.isBuffer(t))
      return JSON.stringify(':base64:' + t.toString('base64'))
    if ((t && t.toJSON && (t = t.toJSON()), t && 'object' == typeof t)) {
      var r = '',
          A = Array.isArray(t)
      r = A ? '[' : '{'
      n = !0
      for (var o in t) {
        var i = 'function' == typeof t[o] || (!A && void 0 === t[o])
        Object.hasOwnProperty.call(t, o) && !i &&
          (n || (r += ','),
           (n = !1),
           A
              ? null == t[o]
              ? (r += 'null')
              : (r += e(t[o]))
              : void 0 !== t[o] && (r += e(o) + ':' + e(t[o])))
      }
      return (r += A ? ']' : '}')
    }
    return 'string' == typeof t
      ? JSON.stringify(loosy.test(t) ? '.' + t : t)
      : void 0 === t
? 'null'
  : JSON.stringify(t)
}),
(t.parse = function (e) {
  return JSON.parse(e, function (e, t) {
    return 'string' == typeof t
      ? /^:base64:/.test(t)
      ? Buffer.from(t.substring(8), 'base64')
        : /^:.test(t)
      ? t.substring(1)
        : t
    : t
  })
}))

72515: (e, t, r) => {
  'use strict'
  const A = r(28614),
    n = r(7427)
  e.exports = class extends A {
    constructor(e, t) {
      if (
        (super()),
        (this.opts = Object.assign(
          {
            namespace: 'keyv',
            serialize: n.stringify,
            deserialize: n.parse,
          },
          'string' == typeof e ? { uri: e } : e,
          t,
        )
      ),
      !this.opts.store)
      )
      const e = Object.assign([], this.opts)
      this.opts.store = ((e) => {
        const t = {
          redis: '@keyv/redis',
          mongodb: '@keyv/mongo',
          mongo: '@keyv/mongo',
          sqlite: '@keyv/sqlite',
          postgresql: '@keyv/postgres',
          postgres: '@keyv/postgres',
          mysql: '@keyv/mysql',
        }
        if (e.adapter || e.uri) {
          const A = e.adapter || /^[^\^].exec(e.uri)[0]
          return new (r(89112)(t[A]))(e)
return new Map()

'function' == typeof this.opts.store.on &&
  this.opts.store.on('error', (e) => this.emit('error', e)),
  (this.opts.store.namespace = this.opts.namespace)

_getKeyPrefix(e) {
  return `${this.opts.namespace}:${e}`
}

get(e, t) {
  e = this._getKeyPrefix(e)
  const { store: r } = this.opts
  return Promise.resolve()
    .then(() => r.get(e))
    .then((e) =>
      'string' == typeof e ? this.opts.deserialize(e) : e,
    )
    .then((r) => {
      if (void 0 !== r) {
        if (!('number' == typeof r.expires && Date.now() > r.expires))
          return t && t.raw ? r : r.value
        this.delete(e)
      }
    })
}

set(e, t, r) {
  (e = this._getKeyPrefix(e)),
  void 0 === r && (r = this.opts.ttl),
  0 === r && (r = void 0)
  const { store: A } = this.opts
  return Promise.resolve()
    .then(() => {
      const e = 'number' == typeof r ? Date.now() + r : null
      return (t = { value: t, expires: e }), this.opts.serialize(t)
    })
    .then((t) => A.set(e, t, r))
    .then() => !0
}

delete(e) {
  e = this._getKeyPrefix(e)
  const { store: t } = this.opts
  return Promise.resolve().then() => t.delete(e))
}

clear() {
  const { store: e } = this.opts
  return Promise.resolve().then() => e.clear())
function t(e) {
    var t = new Error("Cannot find module " + e + "")
    throw ((t.code = 'MODULE_NOT_FOUND'), t)
}

;((t.keys = () => []), (t.resolve = t), (t.id = 89112), (e.exports = t))

var A = r(99513)(r(76169), 'DataView')
e.exports = A

function a(e) {
    var t = -1,
        r = null == e ? 0 : e.length
    for (this.clear(); ++t < r; ) {
        var A = e[t]
        this.set(A[0], A[1])
    }
}

(a.prototype.clear = A),
(a.prototype.delete = n),
(a.prototype.get = o),
(a.prototype.has = i),
(a.prototype.set = s),
(e.exports = a)
63603: (e, t, r) => {
    var A = r(99513)(r(76169), 'Map')
    e.exports = A
},
75009: (e, t, r) => {
    var A = r(18209),
    n = r(89706),
    o = r(43786),
    i = r(17926),
    s = r(87345)

    function a(e) {
        var t = -1,
        r = null == e ? 0 : e.length
        for (this.clear(); ++t < r; ) {
            var A = e[t]
            this.set(A[0], A[1])
        }
    }

    e.exports = a
},
5825: (e, t, r) => {
    var A = r(99513)(r(76169), 'Promise')
    e.exports = A
},
43231: (e, t, r) => {
    var A = r(99513)(r(76169), 'Set')
    e.exports = A
},
46235: (e, t, r) => {
    var A = r(75009),
    n = r(74785),
    o = r(87760)
    function i(e) {
        var t = -1,
        r = null == e ? 0 : e.length
for (this.__data__ = new A(); ++t < r; ) this.add(e[t])
}
(i.prototype.add = i.prototype.push = n),
(i.prototype.has = o),
(e.exports = i)
},
22851: (e, t, r) => {
  var A = r(29197),
  n = r(35678),
  o = r(33336),
  i = r(97163),
  s = r(43737),
  a = r(48548)
  function c(e) {
    var t = (this.__data__ = new A(e))
    this.size = t.size
  }
  (c.prototype.clear = n),
  (c.prototype.delete = o),
  (c.prototype.get = i),
  (c.prototype.has = s),
  (c.prototype.set = a),
  (e.exports = c)
},
69976: (e, t, r) => {
  var A = r(76169).Symbol
  e.exports = A
},
2740: (e, t, r) => {
  var A = r(76169).Uint8Array
  e.exports = A
},
47063: (e) => {
  e.exports = function (e, t, r) {
    switch (r.length) {
    case 0:
      return e.call(t)
    case 1:
      return e.call(t, r[0])
    case 2:
      return e.call(t, r[0], r[1])
    case 3:
      return e.call(t, r[0], r[1], r[2])
    }
('buffer' == C ||
'byteLength' == C ||
'byteOffset' == C)) ||
s(C, d))) ||
p.push(C)
return p
}
},
60783: (e) => {
  e.exports = function (e, t) {
    for (var r = -1, A = null == e ? 0 : e.length, n = Array(A);
      ++r < A;
    )
      n[r] = t(e[r], r, e)
    return n
  }},
40945: (e) => {
  e.exports = function (e, t) {
    for (var r = -1, A = t.length, n = e.length; ++r < A; )
      e[n + r] = t[r]
    return e
  }},
66054: (e) => {
  e.exports = function (e, t, r, A) {
    var n = -1,
        o = null == e ? 0 : e.length
    for (A && o && (r = e[++n]); ++n < o; ) r = t(r, e[n], n, e)
    return r
  }},
17765: (e) => {
  e.exports = function (e, t) {
    for (var r = -1, A = null == e ? 0 : e.length; ++r < A; )
      if (t(e[r], r, e)) return !0
    return !1
  }},
1051: (e) => {
  e.exports = function (e) {
    return e.split('')
  }},
11852: (e) => {
  var t = /[\x00-\x2f\x3a-\x40\x5b-\x60\x7b-\x7f]+/g
```javascript
e.exports = function (e) {
  return e.match(t) || []
}
}.
26943: (e, t, r) => {
  var A = r(91198),
  n = r(71074)
  e.exports = function (e, t, r) {
    ;((void 0 !== r && !n(e[t], r)) || (void 0 === r && !(t in e))) &&
    A(e, t, r)
  }
}.
65759: (e, t, r) => {
  var A = r(91198),
  n = r(71074),
  o = Object.prototype.hasOwnProperty
  e.exports = function (e, t, r) {
    var i = e[t];
    ;(o.call(e, t) && n(i, r) && (void 0 !== r || t in e)) || A(e, t, r)
  }
}.
39836: (e, t, r) => {
  var A = r(71074)
  e.exports = function (e, t) {
    for (var r = e.length; r--; ) if (A(e[r][0], t)) return r
    return -1
  }
}.
28628: (e, t, r) => {
  var A = r(75182),
  n = r(42185)
  e.exports = function (e, t) {
    return e && A(t, n(t), e)
  }
}.
78707: (e, t, r) => {
  var A = r(75182),
  n = r(24887)
  e.exports = function (e, t) {
    return e && A(t, n(t), e)
  }
}.
91198: (e, t, r) => {
  var A = r(65)
  e.exports = function (e, t, r) {
    '__proto__' == t && A
    ? A(e, t, {
        configurable: !0,
```
(e.exports = function e(t, r, D, b, v, S) {
    var k,
    N = 1 & r,
    F = 2 & r,
    K = 4 & r
    if ((D && (k = v ? D(t, b, v, S) : D(t)), void 0 !== k)) return k
    if (!y(t)) return t
    var M = I(t)
    if (M) {
        if (((k = d(t)), !N)) return c(t, k)
    } else {
        var R = p(t),
        x =
        '[object Function]' == R || '[object GeneratorFunction]' == R
        if (E(t)) return a(t, N)
        if (['object Object'] == R || '[object Arguments]' == R ||
        (x && !v)) {
            if (((k = F || x ? {} : f(t)), !N))
            return F ? l(t, s(k, t)) : g(t, i(k, t))
        } else {
            if (!Q[R]) return v ? t : {}
            k = C(t, R, N)
        }
    }
    S || (S = new A())
    var L = S.get(t)
    if (L) return L
    S.set(t, k),
    m(t)
    ? t.forEach(function (A) {
        k.add(e(A, r, D, A, t, S))
    })
    : B(t) &&
    t.forEach(function (A, n) {
        k.set(n, e(A, r, D, n, t, S))
    })
    var P = K ? (F ? h : u) : F ? keysIn : w,
    O = M ? void 0 : P(t)
    return (n(O || t, function (A, n) {
        O && (A = t[(n = A)]), o(k, n, e(A, r, D, n, t, S))
    }),
    k
    )
})
var A = r(46778),
n = Object.create,
o = (function () {
    function e() {}
    return function (t) {
        if (!A(t)) return {}
        if (n) return n(t)
        e.prototype = t
        var r = new e()
        return (e.prototype = void 0), r
    }
    }())()
    e.exports = o

var A = r(40945),
n = r(958)
e.exports = function (t, r, o, i, s) {
    var a = -1,
c = t.length
    for (o || (o = n), s || (s = []); ++a < c; ) {
g = t[a]
    r > 0 && o(g)
    ? r > 1
    ? e(g, r - 1, o, i, s)
    : A(s, g)
    : i || (s[s.length] = g)
}
    return s

var A = r(59907)()
e.exports = A

var A = r(59907)()
e.exports = A

var A = r(42185)
e.exports = function (e, t) {
    return e && A(e, t, n)
}

var A = r(31689),
n = r(42185)
e.exports = function (e, t) {
    return (e.prototype = void 0), r
}

var A = r(56725),
n = r(49874)
e.exports = function (e, t) {
{ e, t, r } => {
  var A = r(79435),
  n = r(38496)
  e.exports = function (e) {
    return n(e) && '[object Map]' == A(e)
  }
},
{ e, t, r } => {
  var A = r(22851),
  n = r(74195)
  e.exports = function (e, t, r, o) {
    var i = r.length,
    s = i,
    a = !o
    if (null == e) return !s
    for (e = Object(e); i--; ) {
      var c = r[i]
      if (a && c[2] ? c[1] !== e[c[0]] : !(c[0] in e)) return !1
    }
    for (; ++i < s; ) {
      var g = (c = r[i])[0],
      l = e[g],
      u = c[1]
      if (a && c[2]) {
        if (void 0 === l && !(g in e)) return !1
      } else {
        var h = new A()
        if (o) var p = o(l, u, g, e, t, h)
        if (!(!void 0 === p ? n(u, l, 3, o, h) : p)) return !1
      }
    }
    return !0
  }
},
{ e, t, r } => {
  var A = r(92533),
  n = r(15061),
  o = r(46778),
  i = r(76384),
  s = /^\[object .+?Constructor\]/,
  a = Function.prototype,
  c = Object.prototype,
  g = a.toString,
  l = c.hasOwnProperty,
  u = RegExp(
    '^' +
  )
}
g
   .call(l)
   .replace(/\^$.*+?()\{[ ]\}\]g, '\$&')
   .replace(/
\W+.*+?()\{|(.*?)=\W\}\]g,
   '\$1.*?',
   ) +
   '\$'',
}

exports = function (e) {
  return !(o(e) || n(e)) && (A(e) ? u : s).test(i(e))
}
},
28612: (e, t, r) => {
  var A = r(79435),
    n = r(38496)
  exports = function (e) {
    return n(e) && '[object Set]' == A(e)
  }
},
98998: (e, t, r) => {
  var A = r(52502),
    n = r(46369),
    o = r(38496),
    i = {
      '[object Float32Array]' = i['[object Float64Array]' = i[
        'object Int8Array'
      ] = i['[object Int16Array]' = i['[object Int32Array]' = i[
        'object Uint8Array'
      ] = i['[object Uint8ClampedArray]' = i['[object Uint16Array]' = i[
        'object Uint32Array'
      ] = i]
    },
    i['[object Arguments]' = i['[object Array]' = i[
      'object ArrayBuffer'
    ] = i['[object Boolean]' = i['[object DataView]' = i[
      'object Date'
    ] = i['[object Error]' = i['[object Function]' = i[
      'object Map'
    ] = i['[object Number]' = i['[object Object]' = i[
      'object RegExp'
    ] = i['[object Set]' = i['[object String]' = i[
      'object WeakMap'
    ] = i]
  },
  exports = function (e) {
    return o(e) && n(e.length) && !!i[A(e)]
  }
},
42208: (e, t, r) => {
var A = r(96962),
n = r(90348),
o = r(61977),
i = r(82664),
s = r(7430)
e.exports = function (e) {
    return 'function' == typeof e
      ? e
      : null == e
      ? o
      : 'object' == typeof e
        ? i(e)
        ? n(e[0], e[1])
        : A(e)
        : s(e)
    }
},
50994: (e, t, r) => {
    var A = r(89513),
    n = r(60657),
    o = Object.prototype.hasOwnProperty
e.exports = function (e) {
    if (!A(e)) return n(e)
    var t = [],
    for (var r in Object(e))
      o.call(e, r) && 'constructor' != r && t.push(r)
    return t
    }
},
8372: (e, t, r) => {
    var A = r(46778),
    n = r(89513),
    o = r(95632),
    i = Object.prototype.hasOwnProperty
e.exports = function (e) {
    if (!A(e)) return o(e)
    var t = n(e),
    r = [],
    for (var s in e)
      ('constructor' != s || (!t && i.call(e, s))) && r.push(s)
    return r
    }
},
96962: (e, t, r) => {
    var A = r(66470),
    n = r(98705),
    o = r(12757)
e.exports = function (e) {
var t = n(e)
return 1 == t.length && t[0][2] ? o(t[0][0], t[0][1]): function (r) {
    return r === e || A(r, e, t)
}
}
},
90348: (e, t, r) => {
    var A = r(74195),
    n = r(44674),
    o = r(34878),
    i = r(70474),
    s = r(20925),
    a = r(12757),
    c = r(49874)
    e.exports = function (e, t) {
        return i(e) && s(t)
    ? a(c(e), t)
    : function (r) {
        var i = n(r, e)
        return void 0 === i && i === t ? o(r, e) : A(t, i, 3)
    }
}
},
51264: (e, t, r) => {
    var A = r(22851),
    n = r(26943),
    o = r(31689),
    i = r(16834),
    s = r(46778),
    a = r(24887),
    c = r(36883)
    e.exports = function e(t, r, g, l, u) {
        t !== r && o(r, function (o, a) {
            if ((u || (u = new A()), s(o))) i(t, r, a, g, e, l, u)
        else {
            var h = l ? l(c(t, a), o, a + ",", t, r, u) : void 0
            void 0 == h && h = o, n(t, a, h)
        }
    },
    a,
}
16834: (e, t, r) => {
    var A = r(26943),
    n = r(64266),
    o = r(58042),
    i = r(87229),
    s = r(88438),
    a = r(61771),
    c = r(82664),
    g = r(16064),
    l = r(10667),
    u = r(92533),
    h = r(46778),
    p = r(11672),
    d = r(32565),
    C = r(36883),
    f = r(36506)
    e.exports = function (e, t, r, I, E, B, y) {
        var m = C(e, r),
            w = C(t, r),
            Q = y.get(w)
        if (Q) A(e, r, Q)
        else {
            var D = B ? B(m, w, r + '', e, t, y) : void 0,
                b = void 0 === D
            if (b) {
                var v = c(w),
                    S = !v && f(w),
                    k = !v && !S && d(w)
                ;(D = w),
                v || S || k
                ? c(m)
                ? (D = m)
                : g(m)
                ? (D = i(m))
                : S
                ? ((b = !1), (D = n(w, !0)))
                : k
                ? ((b = !1), (D = o(w, !0)))
                : (D = [])
                : p(w) || a(w)
                ? ((D = m), a(m) ? (D = f(m)) : (h(m) && !u(m)) || (D = s(w)))
                : (b = !1)
            }
            b && (y.set(w, D), E(D, w, I, B, y), y.delete(w), A(e, r, D))
        }
    }
}
}
72204: (e, t, r) => {
}
var A = r(35314),
n = r(34878)
e.exports = function (e, t) {
    return A(e, t, function (t, r) {
        return n(e, r)
    })
}

},
35314: (e, t, r) => {
    var A = r(84173),
n = r(10624),
o = r(56725)
e.exports = function (e, t, r) {
        for (var i = -1, s = t.length, a = {}; ++i < s; ) {
            var c = t[i],
g = A(e, c)
r(g, c) && n(a, o(c, e), g)
        }
        return a
    }
}
},
35400: (e) => {
e.exports = function (e) {
    return function (t) {
        return null == t ? void 0 : t[e]
    }
}
},
43018: (e, t, r) => {
    var A = r(84173)
e.exports = function (e) {
        return function (t) {
            return A(t, e)
        }
}
},
51587: (e) => {
e.exports = function (e) {
    return function (t) {
        return null == e ? void 0 : e[t]
    }
}
},
30383: (e, t, r) => {
    var A = r(61977),
n = r(44322),
o = r(3111)
e.exports = function (e, t) {
return o(n(e, t, A), e + ")
)}
},
10624: (e, t, r) => {
  var A = r(65759),
  n = r(56725),
  o = r(98041),
  i = r(46778),
  s = r(49874)
  e.exports = function (e, t, r, a) {
    if (!i(e)) return e
    for (
      var c = -1, g = (t = n(t, e)).length, l = g - 1, u = e;
      null != u && ++c < g;
    ) {
      var h = s(t[c]),
        p = r
      if (c != l) {
        var d = u[h]
        void 0 === (p = a ? a(d, h, u) : void 0) &&
        (p = i(d) ? d : o(t[c + 1]) ? [] : {})
      }
      A(u, h, p), (u = u[h])
    }
    return e
  }
},
4899: (e, t, r) => {
  var A = r(4967),
  n = r(65),
  o = r(61977),
  i = n
  ? function (e, t) {
    return n(e, 'toString', {
      configurable: !0,
      enumerable: !1,
      value: A(t),
      writable: !0,
    })
  }
  : o
  e.exports = i
},
27708: (e) => {
  e.exports = function (e, t, r) {
    var A = -1,
    n = e.length
var r = new e.constructor(e.source, t.exec(e))
return (r.lastIndex = e.lastIndex), r
}
},
25791: (e, t, r) => {
    var A = r(69976),
    n = A ? A.prototype : void 0,
    o = n ? n.valueOf : void 0
    e.exports = function (e) {
        return o ? Object(o.call(e)) : {}
    }
},
58042: (e, t, r) => {
    var A = r(76255)
    e.exports = function (e, t) {
        var r = t ? A(e.buffer) : e.buffer
        return new e.constructor(r, e.byteOffset, e.length)
    }
},
87229: (e) => {
    e.exports = function (e, t) {
        var r = -1,
            A = e.length
        for (t || (t = Array(A)); ++r < A; ) t[r] = e[r]
        return t
    }
},
75182: (e, t, r) => {
    var A = r(65759),
        n = r(91198)
    e.exports = function (e, t, r, o) {
        var i = !r
            r || (r = {})
        for (var s = -1, a = t.length; ++s < a; ) {
            var c = t[s],
                g = o ? o(r[c], e[c], c, r, e) : void 0
            void 0 === g && (g = e[c]), i ? n(r, c, g) : A(r, c, g)
        }
        return r
    }
},
23105: (e, t, r) => {
    var A = r(75182),
        n = r(68727)
    e.exports = function (e, t) {
        return A(e, n(e), t)
    }
},
60741: (e, t, r) => {
  var A = r(75182),
  n = r(35368)
  e.exports = function (e, t) {
    return A(e, n(e), t)
  }
},
14429: (e, t, r) => {
  var A = r(76169)['__core-js_shared__'],
  e.exports = A
},
27913: (e, t, r) => {
  var A = r(30383),
  n = r(33193)
  e.exports = function (e) {
    return A(function (t, r) {
      var A = -1,
      o = r.length,
      i = o > 1 ? r[o - 1] : void 0,
      s = o > 2 ? r[2] : void 0
      for (i = e.length > 3 && 'function' == typeof i ? (o--, i) : void 0,
      s && n(r[0], r[1], s) && ((i = o < 3 ? void 0 : i), (o = 1)),
      t = Object(t);
    ++A < o;
    ) {
      var a = r[A]
      a && e(t, a, A, i)
    }
    return t
  })
},
59907: (e) => {
  e.exports = function (e) {
    return function (t, r, A) {
      for (var n = -1, o = Object(t), i = A(t), s = i.length; s--; ) {
        var a = i[e ? s : ++n]
        if (!1 === r(o[a], a, o)) break
      }
      return t
    }
  }
},
56989: (e, t, r) => {
  var A = r(92568),
  n = r(93024),
o = r(30475),
i = r(33580)
e.exports = function (e) {
return function (t) {
t = i(t)
var r = n(t) ? o(t) : void 0,
s = r ? r[0] : t.charAt(0),
a = r ? A(r, 1).join('') : t.slice(1)
return s[e]() + a
}
}
},
30369: (e, t, r) => {
var A = r(66054),
n = r(68968),
o = r(97684),
i = RegExp("[']", 'g')
e.exports = function (e) {
return function (t) {
return A(o(n(t).replace(i, '')), e, '')
}
}
},
69922: (e, t, r) => {
var A = r(51587)({
: 'A',
: 'A',
: 'A',
: 'A',
: 'A',
: 'A',
: 'a',
: 'a',
: 'a',
: 'a',
: 'a',
: 'a',
: 'C',
: 'c',
: 'D',
: 'd',
: 'E',
: 'E',
: 'E',
: 'E',
: 'e',
: 'e',
: 'e',

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65: (e, t, r) => {
    var A = r(99513),
    n = (function () {
        try {
            var e = A(Object, 'defineProperty')
            return e({}, '', {}), e
        } catch (e) {}
    })()
    e.exports = n
},
75500: (e, t, r) => {
    var A = r(46235),
    n = r(17765),
    o = r(93022)
    e.exports = function (e, t, r, i, s, a) {
        var c = 1 & r,
        g = e.length,
        l = t.length,
        u = a.get(e)
        if (u && a.get(t)) return u == t
        var h = -1,
p = 0,
d = 2 & r ? new A() : void 0
for (a.set(e, t), a.set(t, e); ++h < g; ) {
    var C = e[h],
    f = t[h]
    if (i) var I = c ? i(f, C, h, e, a) : i(C, f, h, e, t, a)
    if (void 0 !== I) {
        if (I) continue
        p = !1
        break
    }
    if (d) {
        if (
            !n(t, function (e, t) {
            if (!o(d, t) && (C === e || s(C, e, r, i, a)))
                return d.push(t)
            })
        ) {
            p = !1
            break
        } else if (C !== f && !s(C, f, r, i, a)) {
            p = !1
            break
        }
        return a.delete(e), a.delete(t), p
    }
}
28475: (e, t, r) => {
    var A = r(69976),
    n = r(2740),
    o = r(71074),
    i = r(75500),
    s = r(7877),
    a = r(7442),
    c = A ? A.prototype : void 0,
    g = c ? c.valueOf : void 0
    e.exports = function (e, t, r, A, c, l, u) {
        switch (r) {
            case '[object DataView]':
                if (e.byteLength != t.byteLength || e.byteOffset != t.byteOffset)
                    return !1
                ;(e = e.buffer), (t = t.buffer)
            case '[object ArrayBuffer]':
                return !!(e.byteLength != t.byteLength || new n(e).cuda(t))
            case '[object Boolean]':
                return !!(new n(e), new n(t))
            case '[object Date]':
                return !!(new Date(e), new Date(t))
        }
    }
}

case '[object Number]':
  return o(+e, +t)

case '[object Error]':
  return e.name == t.name & e.message == t.message

case '[object RegExp]':
  return e == t + ''

case '[object String]':
  return e == t + ''

var h = s

case '[object Set]':
  var p = 1 & A
  if ((h || (h = a), e.size != t.size & !p)) return !1
  var d = u.get(e)
  if (d) return d == t

  var C = i(h(e), h(t), A, c, l, u)
  return u.delete(e), C

var h = s

if (g) return g.call(e) == g.call(t)

return !1

},

50245: (e, t, r) => {
  var A = r(60753),
  n = Object.prototype.hasOwnProperty
  e.exports = function (e, t, r, o, i, s) {
    var a = 1 & r,
    c = A(e),
    g = c.length
    if (g != A(t).length & !a) return !1
    for (var l = g; l--; ) {
      var u = c[l]
      if (!a ? u in t : n.call(t, u)) return !1
    }
    var h = s.get(e)
    if (h & s.get(t)) return h == t
    var p = !0
    s.set(e, t), s.set(t, e)
    for (var d = a; ++l < g; ) {
      var C = e[(u = c[l])],
      f = t[u]
      if (o) var I = a ? o(f, C, u, t, e, s) : o(C, f, u, e, t, s)
      if (!!(void 0 === I ? C === f || i(C, f, r, o, s) : I)) {
        p = !1
        break
      }
    }
    if (d || ('constructor' == u)
if (p & !d) {
    var E = e.constructor,
        B = t.constructor
    E == B ||
    !("constructor" in e) ||
    !("constructor" in t) ||
    ("function" == typeof E &&
        E instanceof E &&
        "function" == typeof B &&
        B instanceof B) ||
    (p = !1)
}
return s.delete(e), s.delete(t), p
},
87298: (e, t, r) => {
    var A = r(54690),
        n = r(44322),
        o = r(3111)
e.exports = function (e) {
    return o(n(e, void 0, A), e + "")
}
},
68399: (e) => {
    var t =
        'object' == typeof global &&
        global &&
        global.Object === Object &&
        global
e.exports = t
},
60753: (e, t, r) => {
    var A = r(40104),
        n = r(68727),
        o = r(42185)
e.exports = function (e) {
    return A(e, o, n)
}
},
64420: (e, t, r) => {
    var A = r(40104),
        n = r(35368),
        o = r(24887)
e.exports = function (e) {
    return A(e, o, n)
}
}.
59253: (e, t, r) => {
  var A = r(69448)
  e.exports = function (e, t) {
    var r = e._.data_
    return A(t) ? r['string' == typeof t ? 'string' : 'hash'] : r.map
  }
},
98705: (e, t, r) => {
  var A = r(20925),
  n = r(42185)
  e.exports = function (e) {
    for (var t = n(e), r = t.length; r--; ) {
      var o = t[r],
      i = e[o]
      t[r] = [o, i, A(i)]
    }
    return t
  }
},
99513: (e, t, r) => {
  var A = r(91686),
  n = r(98054)
  e.exports = function (e, t) {
    var r = n(e, t)
    return A(r) ? r : void 0
  }
},
41181: (e, t, r) => {
  var A = r(64309)(Object.getPrototypeOf, Object)
  e.exports = A
},
2854: (e, t, r) => {
  var A = r(69976),
  n = Object.prototype,
  o = n.hasOwnProperty,
  i = n.toString,
  s = A ? A.toStringTag : void 0
  e.exports = function (e) {
    var t = o.call(e, s),
    r = e[s]
    try {
      e[s] = void 0
      var A = !=0
    } catch (e) {} 
    var n = i.call(e)
    return A && (t ? (e[s] = r) : delete e[s]), n
  }
}.}
68727: (e, t, r) => {
  var A = r(9073),
  n = r(62162),
  o = Object.prototype.propertyIsEnumerable,
  i = Object.getOwnPropertySymbols,
  s = i
  ? function (e) {
      return null === e
      ? []
      : ((e = Object(e)),
          A(i(e), function (t) {
            return o.call(e, t)
          }))
    }
  :
    n
  e.exports = s
},
35368: (e, t, r) => {
  var A = r(40945),
  n = r(41181),
  o = r(68727),
  i = r(62162),
  s = Object.getOwnPropertySymbols
    ? function (e) {
        for (var t = []; e; ) A(t, o(e)), (e = n(e))
        return t
      }
    : i
  e.exports = s
},
79435: (e, t, r) => {
  var A = r(78962),
  n = r(63603),
  o = r(5825),
  i = r(43231),
  s = r(47063),
  a = r(52502),
  c = r(76384),
  g = c(A),
  l = c(n),
  u = c(o),
  h = c(i),
  p = c(s),
  d = a
  ;((A && '[object DataView]' != d(new A(new ArrayBuffer(1)))) ||
  (n && '[object Map]' != d(new n())) ||
  (o && '[object Promise]' != d(o.resolve())) ||
  (i && '[object Set]' != d(new i()))) ||
(s && '[object WeakMap]' !== d(new s())) &&
(d = function (e) {
  var t = a(e),
    r = '[object Object]' === t ? e.constructor : void 0,
    A = r ? c(r) : ''
  if (A)
    switch (A) {
      case g:
        return '[object DataView]'
      case l:
        return '[object Map]'
      case u:
        return '[object Promise]'
      case h:
        return '[object Set]'
      case p:
        return '[object WeakMap]'
    }
  return t
}),
(e.exports = d)
},
98054: (e) => {
  e.exports = function (e, t) {
    return null == e ? void 0 : e[t]
  }
},
71507: (e, t, r) => {
  var A = r(56725),
      n = r(61771),
      o = r(82664),
      i = r(98041),
      s = r(46369),
      a = r(49874)
  e.exports = function (e, t, r) {
    for (var c = -1, g = (t = A(t, e)).length, l = !1; ++c < g; ) {
      var u = a(t[c])
      if (!!(l = null !== e && r(e, u))) break
      e = e[u]
    }
    return l || ++c !== g
  }
},

93024: (e) => {
    var t = RegExp(
        '\u200d[\ud800-\udfff][\u0300-\u036f][\ufe20-\ufe2f][\u20d0-\u20ff][\ufe0e][\ufe0f]',
    )
    e.exports = function (e) {
        return t.test(e)
    }
},
60466: (e) => {
    var t = /[a-z][A-Z][A-Z][2][a-z][0-9][a-zA-Z][a-zA-Z][0-9][a-zA-Z][0-9]/
    e.exports = function (e) {
        return t.test(e)
    }
},
31713: (e, t, r) => {
    var A = r(52437)
    e.exports = function () {
        (this.__data__ = A ? A(null) : {}), (this.size = 0)
    }
},
86688: (e) => {
    e.exports = function (e) {
        var t = this.has(e) && delete this.__data__[e]
        return (this.size -= t ? 1 : 0), t
    }
},
45937: (e, t, r) => {
    var A = r(52437),
    n = Object.prototype.hasOwnProperty
    e.exports = function (e) {
        var t = this.__data__
        if (A) {
            var r = t[e]
            return '__lodash_hash_undefined__' === r ? void 0 : r
        }
        return n.call(t, e) ? t[e] : void 0
    }
},
5017: (e, t, r) => {
    var A = r(52437),
    n = Object.prototype.hasOwnProperty
    e.exports = function (e) {
        var t = this.__data__
        return A ? void 0 !== t[e] : n.call(t, e)
    }
},
79457: (e, t, r) => {
    var A = r(52437)
e.exports = function (e, t) {
  var r = this.__data__
  return {
    (this.size += this.has(e) ? 0 : 1),
    (r[e] = A && void 0 === t ? '__lodash_hash_undefined__' : t),
    this
  }
}
}
27908: (e) => {
  var t = Object.prototype.hasOwnProperty
  e.exports = function (e) {
    var r = e.length,
    A = new e.constructor(r)
    return {
      r &&
      'string' == typeof e[0] &&
      t.call(e, 'index') &&
      ((A.index = e.index), (A.input = e.input)),
      A
    }
  }
}
37836: (e, t, r) => {
  var A = r(76255),
  n = r(63749),
  o = r(41705),
  i = r(25791),
  s = r(58042)
  e.exports = function (e, t, r) {
    var a = e.constructor
    switch (t) {
    case '[object ArrayBuffer]':
      return A(e)
    case '[object Boolean]':
    case '[object Date]':
      return new a(+e)
    case '[object DataView]':
    case '[object Float32Array]':
    case '[object Float64Array]':
    case '[object Int8Array]':
    case '[object Int16Array]':
    case '[object Int32Array]':
    case '[object Uint8Array]':
    case '[object Uint8ClampedArray]':
    case '[object Uint16Array]':
    case '[object Uint32Array]':

return s(e, r)
case '[object Map]':
    return new a()
case '[object Number]':
    return new a(e)
case '[object String]':
    return new a(e)
case '[object RegExp]':
    return o(e)
case '[object Set]':
    return new a()
case '[object Symbol]':
    return i(e)
}
},
88438: (e, t, r) => {
    var A = r(15178),
    n = r(41181),
    o = r(89513)
e.exports = function (e) {
    return 'function' !== typeof e.constructor || o(e) ? {} : A(n(e))
}
},
958: (e, t, r) => {
    var A = r(69976),
    n = r(61771),
    o = r(82664),
    i = A ? A.isConcatSpreadable : void 0
e.exports = function (e) {
    return o(e) || n(e) || !!(i && e && e[i])
}
},
98041: (e) => {
    var t = /^(?:0|\[1-9]\d*)$/
e.exports = function (e, r) {
    var A = typeof e
    return (a
        !(r = null === r ? 9007199254740991 : r) &&
        ('number' === A || ('symbol' !== A && t.test(e))) &&
        e > -1 &&
        e % 1 === 0 &&
        e < r
    )
}
},
33193: (e, t, r) => {
    var A = r(71074),
    n = r(41929),
o = r(98041),
i = r(46778)
e.exports = function (e, t, r) {
if (!i(r)) return !1
var s = typeof t
return (
!!('number' == s
? n(r) && o(t, r.length)
: 'string' == s && t in r) && A(r[t], e)
)
}
},
70474: (e, t, r) => {
var A = r(82664),
n = r(65558),
o = /\.|\[(?:[^[\]]*|(["'])(?:(?!\1)[^\\]|\\.)*?\1)\]/,
i = /^\w*$/
e.exports = function (e, t) {
if (A(e)) return !1
var r = typeof e
return (
!(
'number' != r &&
'symbol' != r &&
'boolean' != r &&
null != e &&
!n(e)
) ||
i.test(e) ||
!o.test(e) ||
(null != t && e in Object(t))
)
}
},
69448: (e) => {
e.exports = function (e) {
var t = typeof e
return 'string' == t ||
'number' == t ||
'symbol' == t ||
'boolean' == t
? '__proto__' !== e
: null === e
}
},
15061: (e, t, r) => {
var A,
n = r(14429),

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o = (A = /[\^\$]/.exec((n && n.keys && n.keys.IE_PROTO) || "\b")
  ? Symbol(src)_1.' + A
  : '')
exports = function (e) {
  return !!o && o in e
}
}
89513: (e) => {
  var t = Object.prototype
  exports = function (e) {
    var r = e && e.constructor
    return e === (('function' == typeof r && & r.prototype) || t)
  }
}
20925: (e, t, r) => {
  var A = r(46778)
  exports = function (e) {
    return e === e && !A(e)
  }
}
82262: (e) => {
  exports = function (e) {
    for (var t, r = []; !(t = e.next()).done; ) r.push(t.value)
    return r
  }
}
14620: (e) => {
  exports = function () {
    (this._data_ = []), (this.size = 0)
  }
}
73682: (e, t, r) => {
  var A = r(39836),
  n = Array.prototype.splice
  exports = function (e) {
    var t = this._data_,
    r = A(t, e)
    return (r < 0) &&
    (r == t.length - 1 ? t.pop() : n.call(t, r, 1), --this.size, !0)
  }
}
43112: (e, t, r) => {
  var A = r(39836)
  exports = function (e) {
    var t = this._data_,
    r = A(t, e)
var t = []
if (null != e) for (var r in Object(e)) t.push(r)
return t
},
26391: (e, t, r) => {
e = r.nmd(e)
var A = r(68399),
n = t &amp; &amp; !(t.nodeType &amp;&amp; t),
o = n &amp;&amp; e &amp;&amp; !e.nodeType &amp;&amp; e,
i = o &amp;&amp; o.exports === n &amp;&amp; A.process,
s = (function () {
try {
var e = o &amp;&amp; o.require &amp;&amp; o.require('util').types
return e || (i &amp;&amp; i.binding &amp;&amp; i.binding('util'))
} catch (e) {}})()
e.exports = s
},
87427: (e) => {
var t = Object.prototype.toString
e.exports = function (e) {
return t.call(e)
}
},
64309: (e) => {
e.exports = function (e, t) {
return function (r) {
return e(t(r))
}
}
},
44322: (e, t, r) => {
var A = r(66636),
n = Math.max
e.exports = function (e, t, r) {
return (t = n(void 0 === t ? e.length - 1 : t, 0)),
function () {
for (var o = arguments, i = -1, s = n(o.length - t, 0), a = Array(s);
++i < s;

)
a[i] = o[t + i]
i = -1
for (var c = Array(t + 1); ++i < t; ) c[i] = o[i]
return (c[t] = r(a)), A(e, this, c)


76169: (e, t, r) => {
    var A = r(68399),
    n = 'object' == typeof self && self && self.Object == Object && self,
    o = A || n || Function('return this')()
    e.exports = o
},
36883: (e) => {
    e.exports = function (e, t) {
        if ('constructor' !== t || 'function' !== typeof e[t]) &&
            '__proto__' !== t
        )
            return e[t]
    },
74785: (e) => {
    e.exports = function (e) {
        return this.__data__.set(e, '__lodash_hash_undefined__'), this
    },
87760: (e) => {
    e.exports = function (e) {
        return this.__data__.has(e)
    },
7442: (e) => {
    e.exports = function (e) {
        var t = -1,
            r = Array(e.size)
        return (e.forEach(function (e) {
            r[++t] = e
        }),
        r
    }
},
3111: (e, t, r) => {
    var A = r(4899),
    n = r(19908)(A)
    e.exports = n
},
19908: (e) => {
    var t = Date.now
}
e.exports = function (e) {
    var r = 0,
        A = 0
    return function () {
        var n = t(),
            o = 16 - (n - A)
        if (((A = n), o > 0)) {
            if (++r >= 800) return arguments[0]
        } else r = 0
        return e.apply(void 0, arguments)
    }
}
},
35678: (e, t, r) => {
    var A = r(29197)
    e.exports = function () {
        (this.__data__ = new A()), (this.size = 0)
    }
},
33336: (e) => {
    e.exports = function (e) {
        var t = this.__data__,
            r = t.delete(e)
        return (this.size = t.size), r
    }
},
97163: (e) => {
    e.exports = function (e) {
        return this.__data__.get(e)
    }
},
43737: (e) => {
    e.exports = function (e) {
        return this.__data__.has(e)
    }
},
48548: (e, t, r) => {
    var A = r(29197),
        n = r(63603),
        o = r(75009)
    e.exports = function (e, t) {
        var r = this.__data__
        if (r instanceof A) {
            var i = r.__data__
            if (!n || i.length < 199)
                i.push([e, t]), (this.size = ++r.size), this
            r = this.__data__ = new o(i)
        }
    }
}
10667: (e, t, r) => {
    e = r.nmd(e)
    var A = r(76169),
    n = r(88988),
    o = t && !t.nodeType && t,
    i = o && e && 'e.nodeType' && e,
    s = i && i.exports === o ? A.Buffer : void 0,
    a = (s ? s.isBuffer : void 0) || n
    e.exports = a
},
92533: (e, t, r) => {
    var A = r(52502),
    n = r(46778)
    e.exports = function (e) {
        if (!n(e)) return !1
        var t = A(e)
        return ("[object Function]" == t ||
            '[object GeneratorFunction]' == t ||
            '[object AsyncFunction]' == t ||
            '[object Proxy]' == t
        )
    }
},
46369: (e) => {
    e.exports = function (e) {
        return ('number' == typeof e &&
            e > -1 &&
            e % 1 == 0 &&
            e <= 9007199254740991
        )
    }
},
13349: (e, t, r) => {
    var A = r(55994),
    n = r(73635),
    o = r(26391),
    i = o && o.isMap,
    s = i ? n(i) : A
    e.exports = s
},
46778: (e) => {
    e.exports = function (e) {
        var t = typeof e
        return null != e && ('object' == t || 'function' == t)
    }
}
38496: (e) => {
  e.exports = function (e) {
    return null !== e && 'object' === typeof e
  }
},
11672: (e, t, r) => {
  var A = r(52502),
      n = r(41181),
      o = r(38496),
      i = Function.prototype,
      s = Object.prototype,
      a = i.toString,
      c = s.hasOwnProperty,
      g = a.call(Object)
  e.exports = function (e) {
    if (!o(e) || '[object Object]' !== A(e)) return !1
    var t = n(e)
    if (null === t) return !0
    var r = c.call(t, 'constructor') && t.constructor
    return 'function' === typeof r && r instanceof r && a.call(r) === g
  }
},
33931: (e, t, r) => {
  var A = r(28612),
      n = r(73635),
      o = r(26391),
      i = o && o.isSet,
      s = i ? n(i) : A
  e.exports = s
},
221: (e, t, r) => {
  var A = r(52502),
      n = r(82664),
      o = r(38496)
  e.exports = function (e) {
    return ('string' === typeof e || (!n(e) && o(e) && '[object String]' === A(e)))
  }
},
65558: (e, t, r) => {
  var A = r(52502),
      n = r(38496)
  e.exports = function (e) {
    return 'symbol' === typeof e || (n(e) && '[object Symbol]' === A(e))
  }
},
32565: (e, t, r) => {
  var A = r(52502),
      n = r(38496)
  e.exports = function (e) {
    return null !== e && 'object' === typeof e
  }
}
var A = r(98998),
n = r(73635),
o = r(26391),
i = o && o.isTypedArray,
s = i ? n(i) : A

e.exports = s
}

42185: (e, t, r) => {
var A = r(11886),
n = r(50994),
o = r(41929)
e.exports = function (e) {
    return o(e) ? A(e) : n(e)
}
}

24887: (e, t, r) => {
var A = r(11886),
n = r(8372),
o = r(41929)
e.exports = function (e) {
    return o(e) ? A(e, !0) : n(e)
}
}

5253: (e, t, r) => {
var A = r(91198),
n = r(62164),
o = r(42208)
e.exports = function (e, t) {
    var r = {}
    return (t = o(t, 3)),
    n(e, function (e, n, o) {
        A(r, t(e, n, o), e)
    }),
    r
}
}

89612: (e, t, r) => {
var A = r(91198),
n = r(62164),
o = r(42208)
e.exports = function (e, t) {
    var r = {}
    return (t = o(t, 3)),
    n(e, function (e, n, o) {
        A(r, n, t(e, n, o))
    })
}
```javascript
e.exports = function (e) {
    return null == e ? "" : A(e)
}
},
72609: (e, t, r) => {
    var A = r(56989)("toUpperCase")
    e.exports = A
},
24448: (e, t, r) => {
    var A = r(18290),
        n = r(42185)
    e.exports = function (e) {
        return null == e ? [] : A(e, n(e))
    }
},
97684: (e, t, r) => {
    var A = r(11852),
        n = r(60466),
        o = r(33580),
        i = r(89887)
    e.exports = function (e, t, r) {
        return (e = o(e)),
            void 0 === (t = r ? void 0 : t)
            ? n(e)
            ? i(e)
            : A(e)
            : e.match(t) || []
    }
},
55737: (e) => {
    'use strict'
    e.exports = (e) => {
        const t = {}
        for (const [r, A] of Object.entries(e)) t[r.toLowerCase()] = A
        return t
    }
},
46227: (e, t, r) => {
    'use strict'
    const A = r(35747),
        n = r(85622),
        { promisify: o } = r(31669),
        i = r(95584).satisfies(process.version, '>=10.12.0'),
        s = (e) => {
            if ('win32' === process.platform) {
                if (/[^\:]\?.*/.test(e.replace(n.parse(e).root, ""))) {
const t = new Error('Path contains invalid characters: ' + e)
throw ((t.code = 'EINVAL'), t)
}

a = (e) => ({ ...{ mode: 511, fs: A }, ...e }),
c = (e) => {
const t = new Error(`operation not permitted, mkdir '${e}'`)
return (t.code = 'EPERM'),
(t.errno = -4048),
(t.path = e),
(t.syscall = 'mkdir'),
t}

:(e.exports = async (e, t) => {
s(e), (t = a(t))
const r = o(t.fs.mkdir),
g = o(t.fs.stat)
if (i && t.fs.mkdir === A.mkdir) {
    const A = n.resolve(e)
    return await r(A, { mode: t.mode, recursive: !0 }), A
}
const l = async (e) => {
    try {
        return await r(e, t.mode), e
    } catch (t) {
        if ('EPERM' === t.code) throw t
        if ('ENOENT' === t.code) {
            if (n.dirname(e) === e) throw c(e)
            if (t.message.includes('null bytes')) throw t
            return await l(n.dirname(e)), l(e)
        }
        try {
            if (!(await g(e)).isDirectory())
                throw new Error('The path is not a directory')
        } catch (e) {
            throw t
        }
    return e
}
}
return l(n.resolve(e))
}),
(e.exports.sync = (e, t) => {
if ((s(e), (t = a(t)), i && t.fs.mkdirSync === A.mkdirSync)) {
    const r = n.resolve(e)
    return r
} else if ('EPERM' === t.code) throw t
if ('ENOENT' === t.code) {
    if (n.dirname(e) === e) throw c(e)
    if (t.message.includes('null bytes')) throw t
    return await l(n.dirname(e)), l(e)
} try {
    if (!(await g(e)).isDirectory())
        throw new Error('The path is not a directory')
} catch (e) {
    throw t
}
return e
}
)
return l(n.resolve(e))
})
return A.mkdirSync(r, { mode: t.mode, recursive: !0 }), r
}

const r = (e) => {
try {
    t.fs.mkdirSync(e, t.mode)
} catch (A) {
    if ('EPERM' === A.code) throw A
    if ('ENOENT' === A.code) {
        if (n.dirname(e) === e) throw c(e)
        if (A.message.includes('null bytes')) throw A
        return r(n.dirname(e)), r(e)
    }
    try {
        if (!t.fs.statSync(e).isDirectory())
            throw new Error('The path is not a directory')
    } catch (e) {
        throw A
    }
}
return e
}

return r(n.resolve(e))
},
55598: (e, t, r) => {
    'use strict'
    const A = r(92413).PassThrough,
    n = Array.prototype.slice
    function o(e, t) {
        if (Array.isArray(e))
            for (let r = 0, A = e.length; r < A; r++) e[r] = o(e[r], t)
        else {
            if (
                !e._readableState && e.pipe && (e = e.pipe(A(t)),
                !e._readableState || !e.pause || !e.pipe)
            )
                throw new Error('Only readable stream can be merged.'),
            e.pause()
        }
    return e
}
e.exports = function () {
    const e = []
    let t = !1
    const r = n.call(arguments)
    let i = r[r.length - 1]
    i && !Array.isArray(i) && null == i.pipe ? r.pop() : (i = [])
    const s = !1 !== i.end
null == i.objectMode && (i.objectMode = !0)
null == i.highWaterMark && (i.highWaterMark = 65536)
const a = A(i)

function c() {
  for (let t = 0, r = arguments.length; t < r; t++)
    e.push(o(arguments[t], i))
  return g(), this
}

function g() {
  if (t) return
  t = !0
  let r = e.shift()
  if (!r) return void process.nextTick(l)
  Array.isArray(r) || (r = [r])
  let A = r.length + 1
  function n() {
    --A > 0 || ((t = !1), g())
  }
  function o(e) {
    function t() {
      e.removeListener('merge2UnpipeEnd', t),
      e.removeListener('end', t),
      n()
    }
    if (e._readableState.endEmitted) return n()
    e.on('merge2UnpipeEnd', t),
    e.on('end', t),
    e.pipe(a, { end: !1 }),
    e.resume()
  }
  for (let e = 0; e < r.length; e++) o(r[e])
  n()
}

function l() {
  return (t = !1), a.emit('queueDrain'), s && a.end()
}
a.setMaxListeners(0),
(a.add = c),
a.on('unpipe', function (e) {
  e.emit('merge2UnpipeEnd')
}),
r.length && c.apply(null, r)
return a
}

2401: (e, t, r) => {
  'use strict'
  const A = r(31669),

n = r(12235),
o = r(54722),
i = r(3598),
s = (e) => 'string' == typeof e && ('' === e || './' === e),
a = (e, t, r) => {
;(t = [].concat(t)), (e = [].concat(e))
let A = new Set(),
n = new Set(),
i = new Set(),
s = 0,
a = (e) => {
i.add(e.output), r && r.onResult && r.onResult(e)
}
for (let i = 0; i < t.length; i++) {
let c = o(String(t[i]), { ...r, onResult: a }, !0),
g = c.state.negated || c.state.negatedExtglob
g && s++
for (let t of e) {
let e = c(t, !0)
;(g ? !e.isMatch : e.isMatch) &&
(g ? A.add(e.output) : (A.delete(e.output), n.add(e.output)))
}
}
let c = (s === t.length ? [...i] : [...n]).filter((e) => !A.has(e))
if (r && 0 === c.length) {
if (!0 === r.failglob)
throw new Error(`No matches found for "${t.join(', ')}"`)
if (!0 === r.nonull || !0 === r.nullglob)
return r.unescape ? t.map((e) => e.replace(/\\/g, '')) : t
}
return c
}
;(a.match = a),
(a.matcher = (e, t) => o(e, t)),
(a.any = a.isMatch = (e, t, r) => o(t, r)(e)),
(a.not = (e, t, r = {}) => {
t = [].concat(t).map(String)
let A = new Set(),
n = [],
o = a(e, t, {
...r,
onResult: (e) => {
r.onResult && r.onResult(e), n.push(e.output)
},
})
for (let e of n) o.includes(e) || A.add(e)
return [...A]
}),

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(a.contains = (e, t, r) => {
  if ('string' != typeof e)
    throw new TypeError(`Expected a string: "${A.inspect(e)}"`) 
  if (Array.isArray(t)) return t.some((t) => a.contains(e, t, r))
  if ('string' == typeof t) {
    if (s(e) || s(t)) return !1
    if (e.includes(t) || (e.startsWith('./') && e.slice(2).includes(t))
      return !0
  } return a.isMatch(e, t, { ...r, contains: !0 })
}),
(a.matchKeys = (e, t, r) => {
  if (!i.isObject(e))
    throw new TypeError('Expected the first argument to be an object')
  let A = a(Object.keys(e), t, r),
      n = {}
  for (let t of A) n[t] = e[t]
  return n
}),
(a.some = (e, t, r) => {
  let A = [].concat(e)
  for (let e of [].concat(t)) {
    let t = o(String(e), r)
    if (A.some((e) => t(e))) return !0
  } return !1
}),
(a.every = (e, t, r) => {
  let A = [].concat(e)
  for (let e of [].concat(t)) {
    let t = o(String(e), r)
    if (!A.every((e) => t(e))) return !1
  } return !0
}),
(a.all = (e, t, r) => {
  if ('string' != typeof e)
    throw new TypeError(`Expected a string: "${A.inspect(e)}"`) 
  return [].concat(t).every((t) => o(t, r)(e))
}),
(a.capture = (e, t, r) => {
  let A = i.isWindows(r),
      n = o
    .makeRe(String(e), { ...r, capture: !0 })
    .exec(A ? i.toPosixSlashes(t) : t)
if (n) return n.slice(1).map((e) => (void 0 === e ? '' : e))
},
(a.makeRe = (...e) => o.makeRe(...e)),
(a.scan = (...e) => o.scan(...e)),
(a.parse = (e, t) => {
  let r = []
  for (let A of [].concat(e || []))
    for (let e of n(String(A), t)) r.push(o.parse(e, t))
  return r
}),
(a.braces = (e, t) => {
  if ('string' !== typeof e) throw new TypeError('Expected a string')
  return (t && !0 === t.nobrace) || !/[\{\}]/.test(e) ? [e] : n(e, t)
}),
(a.braceExpand = (e, t) => {
  if ('string' !== typeof e) throw new TypeError('Expected a string')
  return a.braces(e, { ...t, expand: !0 })
}),
(e.exports = a)}
65007: (e) => {
  'use strict'
  const t = [
    'destroy',
    'setTimeout',
    'socket',
    'headers',
    'trailers',
    'rawHeaders',
    'statusCode',
    'httpVersion',
    'httpVersionMinor',
    'httpVersionMajor',
    'rawTrailers',
    'statusMessage',
  ]
  e.exports = (e, r) => {
    const A = new Set(Object.keys(e).concat(t))
    for (const t of A)
      t in r || (r[t] = 'function' == typeof e[t] ? e[t].bind(e) : e[t])
  },
33527: (e) => {
  'use strict'
  const t = [
    'aborted',
    'complete',
    'headers',
    'invalid',
    'partial',
    'response',
    'statusMessage',
    'statusText',
  ]
  e.exports = (e, r) => {
    const A = new Set(Object.keys(e).concat(t))
    for (const t of A)
      t in r || (r[t] = 'function' == typeof e[t] ? e[t].bind(e) : e[t])
  },
}
'httpVersion',
'HttpVersionMinor',
'HttpVersionMajor',
'method',
'rawHeaders',
'rawTrailers',
'setTimeout',
'socket',
'statusCode',
'statusMessage',
'trailers',
'url',
]
e.exports = (e, r) => {
  if (r._readableState.autoDestroy)
    throw new Error(
      'The second stream must have the `autoDestroy` option set to `false`;
    )
  const A = new Set(Object.keys(e).concat(t)),
    n = {}
  for (const t of A)
    t in r ||
      (n[t] = {
        get() {
          const r = e[t]
          return 'function' == typeof r ? r.bind(e) : r
        },
        set(r) {
          e[t] = r
          enumerable: !0,
          configurable: !1,
        }
      })
  return (Object.defineProperties(r, n),
    e.once('aborted', () => {
      r.destroy(), r.emit('aborted')
    }),
    e.once('close', () => {
      e.complete && r.readable
        ? r.once('end', () => {
            r.emit('close')
          })
          : r.emit('close')
    }),
    r
  )}
'use strict'

const A = 'undefined' == typeof URL ? r(78835).URL : URL,
  n = (e, t) =>
    t.some((t) => (t instanceof RegExp ? t.test(e) : t == e)),
  o = (e, t) => {
    if (t = {
      defaultProtocol: 'http:',
      normalizeProtocol: '!',
      forceHttp: '!1,
      forceHttps: '!1,
      stripAuthentication: '!0,
      stripHash: '!1,
      stripWWW: '!0,
      removeQueryParameters: /[\^utm_\w+]/i,
      removeTrailingSlash: '!0,
      removeDirectoryIndex: '!1,
      sortQueryParameters: '!0,
      ...t,
    },
      Reflect.has(t, 'normalizeHttps'))
      throw new Error(
        'options.normalizeHttps is renamed to options.forceHttp',
      )
    if (Reflect.has(t, 'normalizeHttp'))
      throw new Error(
        'options.normalizeHttp is renamed to options.forceHttps',
      )
    if (Reflect.has(t, 'stripFragment'))
      throw new Error(
        'options.stripFragment is renamed to options.stripHash',
      )
    if (((e = e.trim()), /^data:/i.test(e)))
      return ((e, { stripHash: t }) => {
        const r = e.match(/^data:([^;]+);([^;]+)?(;([^;]+))?$/)
        if (!r) throw new Error('Invalid URL: ' + e)
        const A = r[1].split(';'),
          n = r[2],
          o = t ? '' : r[3]
        let i = !1,
          'base64' == A[A.length - 1] && (A.pop(), (i = '0'))
        const s = (A.shift() || '').toLowerCase(),
          a = [
            ...A.map((e) => {
              let [t, r = '] = e.split('=').map((e) => e.trim())
            })
          ]
for (const e of [...o.searchParams.keys()])
  n(e, t.removeQueryParameters) && o.searchParams.delete(e)
return (
  t.sortQueryParameters && o.searchParams.sort(),
  t.removeTrailingSlash &&
  (o.pathname = o.pathname.replace(/\S/, "")),
  (e = o.toString()),
  (!t.removeTrailingSlash && '/' !== o.pathname) ||
  "!=" o.hash ||
  (e = e.replace(/\S/, "")),
  r && !t.normalizeProtocol && (e = e.replace(/http:\/\/\S/, '/')),
  t.stripProtocol && (e = e.replace(/^(?:https?:)?\S/,'"')),
  e
)
):(e.exports = o), (e.exports.default = o)
}
91162: (e, t, r) => {
  var A = r(98984)
  function n(e) {
    var t = function () {
      return t.called
      ? t.value
      : ((t.called = !0), (t.value = e.apply(this, arguments)))
    }
    return (t.called = !1), t
  }
  :(e.exports = A(n)),
  (n.proto = n(function () {
    Object.defineProperty(Function.prototype, 'once', {
      value: function () {
        return n(this)
      },
      configurable: !0,
    })
  }));
27180: (e, t, r) => {
  var A = r(98984)
  function n(e) {
    var t = function () {
      return t.called
      ? t.value
      : ((t.called = !0), (t.value = e.apply(this, arguments)))
    }
    return (t.called = !1), t
  }
function o(e) {
    var t = function () {
        if (t.called) throw new Error(t.onceError)
        return (t.called = !0), (t.value = e.apply(this, arguments))
    },
    r = e.name || 'Function wrapped with `once`'
    return (
        t.onceError = r + " shouldn't be called more than once"),
        (t.called = !1),
    t
};
(e.exports = A(n)),
(e.exports.strict = A(o)),
(n.proto = n(function () {
    Object.defineProperty(Function.prototype, 'once', {
        value: function () {
            return n(this)
        },
        configurable: !0,
    }),
    Object.defineProperty(Function.prototype, 'onceStrict', {
        value: function () {
            return o(this)
        },
        configurable: !0,
    }))
}),
59351: (e) => {
'use strict'
class t extends Error {
    constructor(e) {
        super(e || 'Promise was canceled'), (this.name = 'CancelError')
    }
    get isCanceled() {
        return !0
    }
}

class r {
    static fn(e) {
        return (...t) =>
            new r((r, A, n) => {
                t.push(n), e(...t).then(r, A)
            })
    }
    constructor(e) {
        ;(this._cancelHandlers = []),
    }
}
(this._isPending = !0),
(this._isCanceled = !1),
(this._rejectOnCancel = !0),
(this._promise = new Promise((t, r) => {
  this._reject = r
  const A = (e) => {
    if (!this._isPending)
      throw new Error(
        'The `onCancel` handler was attached after the promise settled.',
      )
    this._cancelHandlers.push(e)
  }
  return (e => {
    if (this._isPending)
      ;(this._isPending = !1), t(e)
  },
    (e) => {
      ;(this._isPending = !1), r(e)
    },
    A,
    )
  )

  then(e, t) {
    return this._promise.then(e, t)
  }
  catch(e) {
    return this._promise.catch(e)
  }
  finally(e) {
    return this._promise.finally(e)
  }
  cancel(e) {
    if (this._isPending && !this._isCanceled) {
      if (this._cancelHandlers.length > 0)
        try {
          for (const e of this._cancelHandlers) e()
        } catch (e) {
this._reject(e)
}
;(this._isCanceled = !0),
this._rejectOnCancel && this._reject(new t(e))
}
}

get isCanceled() {
  return this._isCanceled
}

Object.setPrototypeOf(r.prototype, Promise.prototype),
(e.exports = r),
(e.exports.CancelError = t)
},
61578: (e, t, r) => {
  'use strict'
const A = r(60550),
n = (e) => {
  if (e < 1)
    throw new TypeError(
      'Expected `concurrency` to be a number from 1 and up',
    )
  const t = []
  let r = 0
  const n = () => {
    r--, t.length > 0 && t.shift()
  },
o = (e, t, ...o) => {
    r++
    const i = A(e, ...o)
    t(i), i.then(n, n)
  },
i = (A, ...n) =>
  new Promise((i) =>
    ((A, n, ...i) => {
      r < e ? o(A, n, ...i) : t.push(o.bind(null, A, n, ...i))
    })(A, i, ...n),
  )
return (Object.defineProperties(i, {
  activeCount: { get: () => r },
  pendingCount: { get: () => t.length },
}).
i
}
):(e.exports = n), (e.exports.default = n)
60550: (e) => {
'use strict'
e.exports = (e, ...t) =>
    new Promise((r) => {
        r(e(...t))
    })
},
37127: (e) => {
'use strict'
const t = (e = {}) => {
    const t = e.env || process.env
    return 'win32' !== (e.platform || process.platform)
? 'PATH'
    : Object.keys(t)
        .reverse()
        .find((e) => 'PATH' === e.toUpperCase()) || 'Path'
}
:(e.exports = t), (e.exports.default = t)
},
5763: (e, t, r) => {
'use strict'
const { promisify: A } = r(31669),
    n = r(35747)
async function o(e, t, r) {
    if ('string' !== typeof r)
        throw new TypeError('Expected a string, got ' + typeof r)
    try {
        return (await A(n[e])(r))[t]()
    } catch (e) {
        if ('ENOENT' === e.code) return !1
        throw e
    }
}
function i(e, t, r) {
    if ('string' !== typeof r)
        throw new TypeError('Expected a string, got ' + typeof r)
    try {
        return n[e](r)[t]()
    } catch (e) {
        if ('ENOENT' === e.code) return !1
        throw e
    }
}
:(t.isFile = o.bind(null, 'stat', 'isFile')),
    (t.isDirectory = o.bind(null, 'stat', 'isDirectory')),
    (t.isSymlink = o.bind(null, 'lstat', 'isSymbolicLink')),
    (t.isFileSync = i.bind(null, 'statSync', 'isFile')),
    (t.isDirectorySync = i.bind(null, 'statSync', 'isDirectory')),
(t.isSymlinkSync = i.bind(null, 'lstatSync', 'isSymbolicLink'))
},
54722: (e, t, r) => {
  'use strict'
  e.exports = r(18828)
},
71086: (e, t, r) => {
  'use strict'
  const A = r(85622),
  n = {
    DOT_LITERAL: '\.',
    PLUS_LITERAL: '\+','
    QMARK_LITERAL: '\?',
    SLASH_LITERAL: '\/',
    ONE_CHAR: '(?=.)',
    QMARK: '\[^/\\]?',
    END_ANCHOR: '(?:\/|$)',
    DOTS_SLASH: '\.{1,2}(?:\/|$)',
    NO_DOT: '(?!\.)',
    NO_DOTS: '(?!(?:^|\/)\.{1,2}(?:\/|$))',
    NO_DOT_SLASH: '(?!\.{0,1}(?:\/|$))',
    NO_DOTS_SLASH: '(?!\.{1,2}(?:\/|$))',
    QMARK_NO_DOT: '\[^.\/^\\]?',
    STAR: '([^\\/]*?),'
    START_ANCHOR: '(?:^|[^\\/])',
  },
  o = {
    ...n,
    SLASH_LITERAL: '\[\\/\\]?',
    QMARK: '\[^\\/\\]?',
    STAR: '\[^\\/\\]\\*?',
    DOTS_SLASH: '\.{1,2}(?:[^\\/\\]|$)',
    NO_DOT: '(?!\.)',
    NO_DOTS: '(?!(?:^|[^\\/\\])\.{1,2}(?:[^\\/\\]|$))',
    NO_DOT_SLASH: '(?!\.{0,1}(?:[^\\/\\]|$))',
    NO_DOTS_SLASH: '(?!\.{1,2}(?:[^\\/\\]|$))',
    QMARK_NO_DOT: '\[^.\\/^\\]?',
    START_ANCHOR: '(?:^|[^\\/\\])',
    END_ANCHOR: '(?:[^\\/\\]|$)',
  }
  e.exports = {
    MAX_LENGTH: 65536,
    POSIX_REGEX_SOURCE: {
      alnum: 'a-zA-Z0-9',
      alpha: 'a-zA-Z',
      ascii: '\x00-\x7F',
      blank: '\\',
      cntrl: '\x00-\x1F\x7F',
      ...o,
    }
  }
CHAR_PLUS: 43,
CHAR_QUESTION_MARK: 63,
CHAR_RIGHT_ANGLE_BRACKET: 62,
CHAR_RIGHT_CURLY_BRACE: 125,
CHAR_RIGHT_SQUARE_BRACKET: 93,
CHAR_SEMICOLON: 59,
CHAR_SINGLE_QUOTE: 39,
CHAR_SPACE: 32,
CHAR_TAB: 9,
CHAR_UNDERSCORE: 95,
CHAR_VERTICAL_LINE: 124,
CHAR_ZERO_WIDTH_NOBREAK_SPACE: 65279,
SEP: A.sep,
extglobChars: (e) => {
    '!': { type: 'negate', open: '(?:(?!(?!: close: `))(e.STAR))` },
    '?': { type: 'qmark', open: '(??: close: `)' },
    '+': { type: 'plus', open: '(??: close: `)+' },
    '*': { type: 'star', open: '(??: close: `)*' },
    '@': { type: 'at', open: '(??: close: `)' },
  },
globChars: (e) => (!0 === e ? o : n),
},
47974: (e, t, r) => {
  'use strict'
  const A = r(71086),
  n = r(3598),
  {
    MAX_LENGTH: o,
    POSIX_REGEX_SOURCE: i,
    REGEX_NON_SPECIAL_CHARS: s,
    REGEX_SPECIAL_CHARS_BACKREF: a,
    REPLACEMENTS: c,
  } = A,
  g = (e, t) => {
    if ('function' == typeof t.expandRange)
      return t.expandRange(...e, t)
    e.sort()
    const r = `\[${e.join('-')}]`;
    try {
      new RegExp(r)
    } catch (t) {
      return e.map((e) => n.escapeRegex(e)).join('..')
    }
  },
l = (e, t) =>
    'Missing ${e}: \"${t}\" - use "\\$\{t\}" to match literal characters',

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```javascript
u = (e, t) => {
    if ('string' !== typeof e) throw new TypeError('Expected a string')
    e = c[e] || e
    const r = {...t },
    u = 'number' == typeof r.maxLength ? Math.min(o, r.maxLength) : o
    let h = e.length
    if (h > u)
        throw new SyntaxError(
            'Input length: ${h}, exceeds maximum allowed length: ${u}'
        )
    const p = { type: 'bos', value: '', output: r.prepend || '' },
    d = [p],
    C = r.capture ? '?' : '?:',
    f = n.isWindows(t),
    I = A.globChars(f),
    E = A.extglobChars(I),
    {DOT_LITERAL: B, PLUS_LITERAL: y, SLASH_LITERAL: m, ONE_CHAR: w, DOTS_SLASH: Q, NO_DOT: D, NO_DOT_SLASH: b, NO_DOTS_SLASH: v, QMARK: S, QMARK_NO_DOT: k, STAR: N, START_ANCHOR: F, } = I,
    K = (e) => `(${C}(?:(?!${F}${e.dot ? Q : B}).)*?)`,
    M = r.dot ? '' : D,
    R = r.dot ? S : k
    let x = l0 === r.bash ? K(r) : N
    r.capture && (x = `(\${x})`),
    'boolean' == typeof r.noext && (r.noextglob = r.noext)
    const L = {
        input: e,
        index: -1,
        start: 0,
        dot: l0 === r.dot,
        consumed: '',
        output: '',
        prefix: '',
        backtrack: !1,
        negated: !1,
        brackets: 0,
        braces: 0,
    }
```

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let T
j = p
const Y = () => L.index === h - 1,
G = (L.peek = (t = 1) => e[L.index + t]),
H = (L.advance = () => e[++L.index]),
J = () => e.slice(L.index + 1),
q = (e = "", t = 0) => {
  ;(L.consumed += e), (L.index += t)
},
z = (e) => {
  ;(L.output += null !== e.output ? e.output : e.value), q(e.value)
},
W = () => {
  let e = 1
  for (; '!' === G() && ('(' !== G(2) || '?' === G(3)); )
    H(), L.start++, e++
  return e % 2 !== 0 && ((L.negated = !0), L.start++, !0)
},
X = (e) => {
  L[e]++, U.push(e)
},
V = (e) => {
  L[e]--, U.pop()
},
_ = (e) => {
  if ('globstar' === j.type) {
    const t =
      L.braces > 0 &&
      ('comma' === e.type || 'brace' === e.type),
    r =
      '!0' === e.extglob ||
      (P.length && ('pipe' === e.type || 'paren' === e.type))
    'slash' === e.type ||
    'paren' === e.type ||
    t ||
    r ||
    (L.output = L.output.slice(0, -j.output.length)),
    (j.type = 'star'),
    (j.value = '='),
? t + n + (o ? S.repeat(o.length) : ")
: 0 === i
? R + (o ? S.repeat(o.length) : ")
: S.repeat(r.length)
: '.' === n
? B.repeat(r.length)
: "v" === n
? t
: t + n + (o ? x : ")
: x
: t
: e
: \W + e,
)
return (
!0 === A &&
(o =
!0 === r.unescape
? o.replace(/\\g,\"/)
: o.replace(/\\+/g, (e) =>
e.length % 2 == 0 ? '\\' : e ? '\' : '',
)),
o === e && !0 === r.contains
? ((L.output = e), L)
: ((L.output = n.wrapOutput(o, L, t)), L)
}
for (; !Y(); ) {
if (((T = H()), '\0' === T)) continue
if ('\' === T) {
const e = G()
if ('/' === e && !0 !== r.bash) continue
if ('.' === e || ';' === e) continue
if (!e) {
; (T += '\'), _({ type: 'text', value: T })
continue
}
const t = /^\+/.exec(J())
let A = 0
if (t &&
t[0].length > 2 &&
((A = t[0].length),
(L.index += A),
A % 2 !== 0 && (T += '\W'),
!0 === r.unescape ? (T = H() || "") : (T += H() || "").
0 === L.brackets)
) {
if (0 === L.parens && !0 === r.strictBrackets)
  throw new SyntaxError(l('opening', '('))
const e = P[P.length - 1]
if (e && L.parens === e.parens + 1) {
  $(P.pop())
  continue
}
V('parens')
continue
}
if ('[' === T) {
  if (!0 !== r.nobracket && J().includes(']')) X('brackets')
  else {
    if (!0 !== r.nobracket && !0 === r.strictBrackets)
      throw new SyntaxError(l('closing', ']'))
    T = '\' + T
  }
  _({ type: 'bracket', value: T })
  continue
}
if (']' === T) {
  if (!0 === r.nobracket ||
    (j && 'bracket' === j.type && 1 === j.value.length)) {
    _({ type: 'text', value: T, output: '\' + T })
    continue
  }
  if (0 === L.brackets) {
    if (!0 === r.strictBrackets)
      throw new SyntaxError(l('opening', '['))
    _({ type: 'text', value: T, output: '\' + T })
    continue
  }
}
V('brackets')
const e = j.value.slice(1)
if (]
  '\]' !== e[0] ||
  e.includes('/') ||
  (T = '/' + T),
  (j.value += T),
z({ value: T }),
!1 === r.literalBrackets || n.hasRegexChars(e))
  continue
const t = n.escapeRegex(j.value)
if (j.value = L.output.slice(0, j.value.length)), !0 == r.literalBrackets)
) {
    (L.output += t), (j.value = t)
    continue
}

;(j.value = `(\${C}\${t}\${j.value})`), (L.output += j.value)
continue
}

if ('\'} == T && !0 !== r.nobrace) {
    X('braces')
    const e = {
        type: 'brace',
        value: T,
        output: '(',
        outputIndex: L.output.length,
        tokensIndex: L.tokens.length,
    }
    O.push(e), _(e)
    continue
}

if ('\'} == T) {
    const e = O[O.length - 1]
    if (!0 === r.nobrace || !e) {
        _({ type: 'text', value: T, output: T })
        continue
    }
    let t = ')
    if (!0 === e.dots) {
        const e = d.slice(),
        A = []
        for (let t = e.length - 1;
        t > 0 && (d.pop(), 'brace' !== e[t].type);
        t--)
            'dots' !== e[t].type && A.unshift(e[t].value)
        ;(t = g(A, r)), (L.backtrack = !0)
    }
    if (!0 !== e.comma && !0 !== e.dots) {
        const r = L.output.slice(0, e.outputIndex),
        A = L.tokens.slice(e.tokensIndex),
        ;(e.value = e.output = '\\'), (T = t = '\\'), (L.output = r)
        for (const e of A) L.output += e.output || e.value
    }
    _(e, type: 'brace', value: T, output: t ), V('braces'), O.pop()
    continue
if ('|' === T) {
    P.length > 0 && P[P.length - 1].conditions++,
    _({ type: 'text', value: T })
    continue
}
if (',' === T) {
    let e = T
    const t = O[O.length - 1]
    t &&
    'braces' === U[U.length - 1] &&
    ((t.comma = !0), (e = '|')
    ,_({ type: 'comma', value: T, output: e })
    continue
}
if ('/' === T) {
    if ('dot' === j.type && L.index === L.start + 1) {
        (L.start = L.index + 1),
        (L.consumed = ''),
        (L.output = ''),
        d.pop(),
        (j = p)
        continue
    }
    _({ type: 'slash', value: T, output: m })
    continue
}
if ('.' === T) {
    if (L.braces > 0 && 'dot' === j.type) {
        '.' === j.value && (j.output = B)
        const e = O[O.length - 1]
        ;(j.type = 'dots'),
        (j.output += T),
        (j.value += T),
        (e.dots = !0)
        continue
    }
    if (
        L.braces + L.parens === 0 &&
        'bos' !== j.type &&
        'slash' !== j.type
    ) {
        _({ type: 'text', value: T, output: B })
        continue
    }
    _({ type: 'dot', value: T, output: B })
    continue
}
if ('?' === T) {
  if ( 
    !(j && '!' === j.value) &&
    !0 !== r.noextglob &&
    '(' === G() &&
    '?' !== G(2) 
  ) { 
    Z('qmark', T)
    continue 
  }
  if (j && 'paren' === j.type) {
    const e = G()
    let t = T
    if ('<' === e && !n.supportsLookbehinds())
      throw new Error( 
        'Node.js v10 or higher is required for regex lookbehinds', 
      )
    if (!e.test(J())) {
      t = '\' + T,
      _({ type: 'text', value: T, output: t })
      continue 
    }
  }
  if (!0 !== r.dot && ('slash' === j.type || 'bos' === j.type)) {
    _({ type: 'qmark', value: T, output: k })
    continue 
  }
  _({ type: 'qmark', value: T, output: S })
  continue 
}
if ('!' === T) {
  if ( 
    !0 !== r.noextglob &&
    '(' === G() &&
    '?' !== G(2) || !/\[!=<\:].test(J())
  ) { 
    Z('negate', T)
    continue 
  }
  if (!0 !== r.nonegate && 0 === L.index) {
    W()
    continue 
  }
}
if ('+' === T) {
  if ( 
    !0 !== r.noextglob &&
    '(' === G() &&
    '?' !== G(2) || !/\[!=<\:].test(G(3))
  ) { 
    Z('plus', T)
    continue 
  }
  if (!0 !== r.nonegate && 0 === L.index) {
    W()
    continue 
  }
}
if ((j && '(' === j.value) || !1 === r.regex) {
  _({ type: 'plus', value: T, output: y })
  continue
}

if (j &&
  ('bracket' === j.type ||
   'paren' === j.type ||
   'brace' === j.type) ||
  L.parens > 0)
  _({ type: 'plus', value: y })
  continue

if ('@' === T) {
  if (!0 !== r.noextglob && '(' === G() && '?' !== G(2)) {
    _({ type: 'at', extglob: !0, value: T, output: '' })
    continue
  }
  _({ type: 'text', value: T })
  continue
}

if ('*' !== T) {
  if ('$' !== T && '^' !== T) {
    if (s.exec(J()))
      e && ((T += e[0]), (L.index += e[0].length)),
      _({ type: 'text', value: T })
  }
}

if (j && ('globstar' === j.type || !0 === j.star)) {
  if (j.type = 'star',
      j.star = !0,
      j.value += T,
      j.output = x,
      L.backtrack = !0,
      L.globstar = !0,
      q(T)
  continue
}

let t = J()
if (!0 !== r.noextglob && /\^\([^?]*\)/.test(t)) {
  Z('star', T)
  continue
}
if ('star' === j.type) {
  if (!0 === r.noglobstar) {
    q(T)
    continue
  }
  const A = j.prev,
  n = A.prev,
  o = 'slash' === A.type || 'bos' === A.type,
  i = n && ('star' === n.type || 'globstar' === n.type)
  if (!0 === r.bash && (!o || (t[0] && '/' !== t[0]))) {
    _({ type: 'star', value: T, output: '' })
    continue
  }
  const s =
    L.braces > 0 && ('comma' === A.type || 'brace' === A.type),
  a = P.length && ('pipe' === A.type || 'paren' === A.type)
  if (!o && 'paren' !== A.type && !s && !a) {
    _({ type: 'star', value: T, output: '' })
    continue
  }
  for (; '/**' === t.slice(0, 3); ) {
    const r = e[L.index + 4]
    if (r && '/' !== r) break
    ;(t = t.slice(3)), q('/**', 3)
  }
  if ('bos' === A.type && Y()) {
    (j.type = 'globstar'),
    (j.value += T),
    (j.output = K(r)),
    (L.output = j.output),
    (L.globstar = !0),
    q(T)
    continue
  }
  if ('slash' === A.type && 'bos' !== A.prev.type && !i && Y()) {
    (L.output = L.output.slice(0, -(A.output + j.output).length)),
    (A.output = '(' + A.output),
    (j.type = 'globstar'),
    (j.output = K(r) + (r.strictSlashes ? ')' : '|$)')),
    (j.value += T),
    (L.globstar = !0),
    (L.output += A.output + j.output),
    q(T)
    continue
  }
}
if ('slash' === A.type &&
  'bos' !== A.prev.type &&
  '/' === t[0]) {
  const e = void 0 !== t[1] ? '\$' : ''
  :(L.output = L.output.slice(0,
    -(A.output + j.output).length,
  )
    (A.output = '(?:' + A.output,
      (j.type = 'globstar'),
      (j.output = '^[K(r)](m)^[K(r)](m)\$'),
      (j.value += T),
      (L.output += A.output + j.output),
      (L.globstar = !0),
      q(T + H()),
      _(( { type: 'slash', value: '/', output: '' } )
        continue )
    )
  )
  if ('bos' === A.type && '/' === t[0]) {
    (j.type = 'globstar'),
    (j.value += T),
    (j.output = '(?:^\$[m]\$[K(r)](m)\$[e])'),
    (L.output = j.output),
    (L.globstar = !0),
    q(T + H()),
    _(( { type: 'slash', value: '/', output: '' } )
      continue )
  )
  :(L.output = L.output.slice(0, -j.output.length)),
    (j.type = 'globstar'),
    (j.output = K(r)),
    (j.value += T),
    (L.output += j.output),
    (L.globstar = !0),
    q(T)
    continue
  )
  const A = { type: 'star', value: T, output: x }
!0 !== r.bash
?  ||
  ('bracket' !== j.type && 'paren' !== j.type) ||
!0 !== r.regex
? ((L.index !== L.start &&
    'slash' !== j.type &&
    'dot' !== j.type) ||
    ('dot' === j.type) ||
    ('dot' === j.type) ||
? ((L.output += b), (j.output += b))
: !0 === r.dot
? ((L.output += v), (j.output += v))
: ((L.output += M), (j.output += M)),
'*' !== G() && ((L.output += w), (j.output += w)),
(A)
: ((A.output = T), _((A))
: ((A.output = '\n'),
(\'bos\' !== j.type && \'slash\' !== j.type) ||
(A.output = M + A.output),
(A)
)
for (; L.brackets > 0; ) {
if (!0 === r.strictBrackets)
throw new SyntaxError(l('closing', '\]'))
; (L.output = n.escapeLast(L.output, '\]')), V('brackets')
}
for (; L.parens > 0; ) {
if (!0 === r.strictBrackets)
throw new SyntaxError(l('closing', '\)'))
; (L.output = n.escapeLast(L.output, '\)'), V('parens')
}
for (; L.braces > 0; ) {
if (!0 === r.strictSlashes)
throw new SyntaxError(l('closing', '\}'))
; (L.output = n.escapeLast(L.output, '\}')), V('braces')
}
if (!0 === L.backtrack)
)
L.output = ''
for (const e of L.tokens)
(L.output += null !== e.output ? e.output : e.value),
e.suffix && (L.output += e.suffix)
}
return L.
)
:(u.fastpaths = (e, t) => {
const r = { ...t },
i = 'number' === typeof r.maxLength ? Math.min(o, r.maxLength) : o,
s = e.length
if (s > i)
throw new SyntaxError(
`Input length: ${s}, exceeds maximum allowed length: ${i}`,
)
e = c[e] || e
const a = n.isWindows(t),

{  
  DOT_LITERAL: g,
  SLASH_LITERAL: l,
  ONE_CHAR: u,
  DOTS_SLASH: h,
  NO_DOT: p,
  NO_DOTS: d,
  NO_DOTS_SLASH: C,
  STAR: f,
  START_ANCHOR: I,
} = A.globChars(a),
E = r.dot ? d : p,
B = r.dot ? C : p,
y = r.capture ? " " : ":
let m = !0 === r.bash ? ".*?" : f
r.capture && (m = `(\$\{m\})`)
const w = (e) =>
  !0 === e.noglobstar ? m : `(\$\{y\}?(?!\$\{I\}\$\{e.dot ? h : g\}).*)?`,
Q = (e) =>
  switch (e) {
    case ":":
      return `\$\{E\}\$\{u\}\$\{m\}`
    case ".":
      return `\$\{g\}\$\{u\}\$\{m\}`
    case ":.*":
      return `\$\{E\}\$\{m\}\$\{g\}\$\{u\}\$\{m\}`
    case ":/\":
      return `\$\{E\}\$\{m\}\$\{B\}\$\{u\}\$\{m\}`
    case ":*":
      return E + w(r)
    case ":*\":":
      return `(?:\$\{E\}\$\{w(r)\}\$\{I\}\$\{B\}\$\{u\}\$\{m\}`
    case ":*/\":
      return `(?:\$\{E\}\$\{w(r)\}\$\{I\}\$\{B\}\$\{m\}\$\{g\}\$\{u\}\$\{m\}`
    case ":/*":
      return `(?:\$\{E\}\$\{w(r)\}\$\{I\}\$\{g\}\$\{u\}\$\{m\}`
    default: {
      const t = /(\.*?)(\\+=).*/.exec(e)
      if (!t) return
      const r = Q(t[1])
      if (!r) return
      return r + g + t[2]
    }
  }
}
D = n.removePrefix(e, { negated: !1, prefix: " "}

---

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let b = Q(D)
return b && !0 !== r.strictSlashes && (b += l + '?'), b
},
(e.exports = u)
},
18828: (e, t, r) => {
'use strict'
const A = r(85622),
n = r(95321),
o = r(47974),
i = r(3598),
s = r(71086),
a = (e, t, r = !1) => {
if (Array.isArray(e)) {
const A = e.map((e) => a(e, t, r))
return (e) => {
for (const t of A) {
const r = t(e)
if (r) return r
}
return !1
}
}
const A =
(n = e) &&
'object' == typeof n &&
!Array.isArray(n) &&
e.tokens &&
e.input
var n
if ('' === e || ('string' != typeof e && !A))
throw new TypeError('Expected pattern to be a non-empty string')
const o = t || {},
s = i.isWindows(t),
c = A ? a.compileRe(e, t) : a.makeRe(e, t, !1, !0),
g = c.state
delete c.state
let l = () => !1
if (o.ignore) {
const e = { ...t, ignore: null, onMatch: null, onResult: null }
l = a(o.ignore, e, r)
}
const u = (r, A = !1) => {
const { isMatch: n, match: i, output: u } = a.test(r, c, t, {
glob: e,
posix: s,
}),
h = {
glob: e,
state: g,
regex: c,
posix: s,
input: r,
output: u,
match: i,
isMatch: n,
)
return (  
'function' == typeof o.onResult && o.onResult(h),  
!1 === n  
? ((h.isMatch = !1), !!A && h)  
: lr)  
? ('function' == typeof o.onIgnore && o.onIgnore(h),  
(h.isMatch = !1),  
!!A && h  
: ('function' == typeof o.onMatch && o.onMatch(h), !A || h)  
)  
)
return r && (u.state = g), u  
);(a.test = (e, t, r, { glob: A, posix: n } = {}) => {  
if ('string' != typeof e)  
throw new TypeError('Expected input to be a string')  
if ('' === e) return { isMatch: !1, output: '' }  
const o = r || {},  
s = o.format || (n ? i.toPosixSlashes : null)  
let c = e === A,  
g = c && s ? s(e) : e  
return (  
!1 === c && ((g = s ? s(e) : e), (c = g === A)),  
(!1 !== c && !0 !== o.capture) ||  
(c =  
!0 === o.matchBase || !0 === o.basename  
? a.matchBase(e, t, r, n)  
: t.exec(g)),  
{ isMatch: Boolean(c), match: c, output: g }  
)
),  
(a.matchBase = (e, t, r, n = i.isWindows(r)) =>  
t instanceof RegExp ? t : a.makeRe(t, r).test(A.basename(e))),  
(a.isMatch = (e, t, r) => a(t, r)(e)),  
(a.parse = (e, t) =>
Array.isArray(e)  
? e.map((e) => a.parse(e, t))  
: o(e, { ...t, fastpaths: !1 })),  
(a.scan = (e, t) => n(e, t)),

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    (a.compileRe = (e, t, r = !1, A = !1) => {
        if (!0 === r) return e.output
        const n = t || {},
            o = n.contains ? "" : ",",
            i = n.contains ? "" : "$"
        let s = `${o}(${e.output})${i}`
e && !0 === e.negated && (s = `^(?!${s}).*$`)
        const c = a.toRegex(s, t)
        return !0 === A && (c.state = e), c
    }),
    (a.makeRe = (e, t, r = !1, A = !1) => {
        if (!e || 'string' != typeof e)
            throw new TypeError('Expected a non-empty string')
        const n = t || {}
        let i,
            s = { negated: !1, fastpaths: !0 },
            c = ""
        return (e.startsWith('./') && ((e = e.slice(2)), (c = s.prefix = './')),
            !1 === n.fastpaths || ('.' !== e[0] && '*' !== e[0]) ||
            i = o.fastpaths(e, t),
            void 0 === i
                ? ((s = o(e, t)), (s.prefix = c + (s.prefix || "")))
                : (s.output = i),
            a.compileRe(s, t, r, A)
        )
    }),
    (a.toRegex = (e, t) => {
        try {
            const r = t || {}
            return new RegExp(e, r.flags || (r.nocase ? 'i' : ''))
        } catch (e) {
            if (t && !0 === t.debug) throw e
            return /$^/
        }
    }),
    (a.constants = s),
    (e.exports = a)
},
95321: (e, t, r) => {
'use strict'
const A = r(3598),
[
    CHAR_ASTERISK: n,
    CHAR_AT: o,
    CHAR_BACKWARD_SLASH: i,
    CHAR_COMMA: s,
B = (e) => {
  !0 !== e.isPrefix && (e.depth = e.isGlobstar ? 1 / 0 : 1)
}
e.exports = (e, t) => {
  const r = t || {},
  y = e.length - 1,
  m = !0 === r.parts || !0 === r.scanToEnd,
  w = [],
  Q = [],
  D = []
  let b,
  v,
  S = e,
  k = -1,
  N = 0,
  F = 0,
  K = !1,
  M = !1,
  R = !1,
  x = !1,
  L = !1,
  P = !1,
  O = !1,
  U = !1,
  T = !1,
  j = 0,
  Y = { value: ", depth: 0, isGlob: !1 }
  const G = () => k >= y,
  H = () => ((b = v), S.charCodeAt(++k))
  for (; k < y; ) {
    let e
    if (((v = H()), v !== i)) {
      if (!0 === P || v === l) {
        for (j++; !0 !== G() && (v = H()); )
          if (v !== i)
if (v !== l) {
    if (!0 !== P && v === a && (v = H()) === a) {
        if (K = Y.isBrace = !0),
            (R = Y.isGlob = !0),
            (T = !0),
            (!0 === m)
        )
            continue
        break
    }
}
if (!0 !== P && v === s) {
    if (K = Y.isBrace = !0),
        (R = Y.isGlob = !0),
        (T = !0),
        (!0 === m)
    )
        continue
    break
}
if (v === C && (j--, 0 === j)) {
    (P = !1), (K = Y.isBrace = !0), (T = !0)
    break
} else j++
else (O = Y.backslashes = !0), H()
if (!0 === m) continue
break
}
if (v !== g) {
    if (!0 !== r.noext) {
        if (v === p || v === o || v === n || v === d || v === c) &&
            S.charCodeAt(k + 1) === u
    )
        if (R = Y.isGlob = !0),
            (x = Y.isExtglob = !0),
            (T = !0),
            (!0 === m)
        )
            for (; !0 !== G() && (v = H()); )
        if (v !== i) {
            if (v === f) {
                (R = Y.isGlob = !0), (T = !0)
                break
            }
if (!0 === R) {
    if (((T = !0), !0 === m)) continue
    break
}
} else (U = Y.negated = !0), N++
} else {
    if (w.push(k), Q.push(Y),
        (Y = { value: ", depth: 0, isGlob: !1 })),
        !0 === T)
    )
        continue
    if (b === a && k === N + 1) {
        N += 2
        continue
    }
    F = k + 1
}
} else (O = Y.backslashes = !0), (v = H()), v === l && (P = !0)
} !0 === r.noext && ((x = !1), (R = !1))
let J = S,
    q = "",
    z = "
N > 0 && ((q = S.slice(0, N)), (S = S.slice(N)), (F -= N)),
J && !0 === R && F > 0
? ((J = S.slice(0, F)), (z = S.slice(F)))
: !0 === R
? ((J = ", (z = S))
: (J = S),
J &&
" " !== J &&
' ' !== J &&
J !== S &&
E(J.charCodeAt(J.length - 1)) &&
(J = J.slice(0, -1)),
!0 === r.unescape &&
(z && (z = A.removeBackslashes(z)),
J && !0 === O && (J = A.removeBackslashes(J)))
const W = {
    prefix: q,
    input: e,
    start: N,
    base: J,
    glob: z,
    isBrace: K,
if (!0 === r.tokens &&
   ((W.maxDepth = 0), E(v) || Q.push(Y), (W.tokens = Q)),
!0 === r.parts || !0 === r.tokens)
})

let t
for (let A = 0; A < w.length; A++) {
  const n = t ? t + 1 : N,
  o = w[A],
  i = e.slice(n, o)
  r.tokens &&
  (0 === A && & 0 !== N
  ? ((Q[A].isPrefix = !0), (Q[A].value = q))
    : (Q[A].value = i),
  B(Q[A]),
  (W.maxDepth += Q[A].depth)),
  (0 === A && " === i || D.push(i),
  (t = o)
  )
}
if (t && t + 1 < e.length) {
  const A = e.slice(t + 1)
  D.push(A),
  r.tokens &&
  (!Q[Q.length - 1].value = A),
  B(Q[Q.length - 1]),
  (W.maxDepth += Q[Q.length - 1].depth))

);(W.slashes = w), (W.parts = D)

return W
}

3598: (e, t, r) => {
'use strict'
const A = r(85622),
  n = 'win32' === process.platform,
  {
  REGEX_BACKSLASH: o,
  REGEX_REMOVE_BACKSLASH: i,
  REGEX_SPECIAL_CHARS: s,
  REGEX_SPECIAL_CHARS_GLOBAL: a,
} = r(71086)
null !== e && 'object' === typeof e && !Array.isArray(e),
(t.hasRegexChars = (e) => s.test(e)),
(t.isRegexChar = (e) => 1 === e.length && t.hasRegexChars(e)),
(t.escapeRegex = (e) => e.replace(a, '\$1')),
(t.toPosixSlashes = (e) => e.replace(o, '/')),
(t.removeBackslashes = (e) =>
  e.replace(i, (e) => ('\' === e ? '' : e)) ),
(t.supportsLookbehinds = () =>{
  const e = process.version.slice(1).split('.').map(Number)
  return (3 === e.length && e[0] >= 9) || (8 === e[0] && e[1] >= 10)
}),
(t.isWindows = (e) =>
  e && 'boolean' === typeof e.windows
  ? e.windows
  : !0 === n || '\' === A.sep),
(t.escapeLast = (e, r, A) => {
  const n = e.lastIndexOf(r, A)
  return -1 === n
  ? e
  : '\\' === e[n - 1]
  ? t.escapeLast(e, r, n - 1)
  : `${e.slice(0, n)}\${e.slice(n)}`
}),
(t.removePrefix = (e, t = {}) => {
  let r = e
  return (
    r.startsWith('./') && ((r = r.slice(2)), (t.prefix = './')), r
  )
}),
(t.wrapOutput = (e, t = {}, r = {}) => {
  let A = `${r.contains ? '' : '^'}(?:${e})${r.contains ? '' : '$'}
  return !0 === t.negated && (A = '(?:^(?!${A}).*$)'), A
}),
79588: (e) => {
  'use strict'
  function t(e) {
    ;(this._maxSize = e), this.clear()
  }
  ;(t.prototype.clear = function () {
    ;(this._size = 0), (this._values = { })
  }),
  (t.prototype.get = function (e) {
    return this._values[e]
  }),
  (t.prototype.set = function (e, t) {
    return (}
this._size >= this._maxSize && this.clear(),
this._values.hasOwnProperty(e) || this._size++,
(this._values[e] = t)
)
})
}
var r = /[\^\~\]\]+|(?=\[\]\.\])/g,
A = /[^\d+$]/,
n = /[^\d/],
o = /[~`!#$%\^&*+=\-\[\]\';,/{}|\":<\?]/g,
i = /[^\s*]|''\)?(\*\?)\s*$/,
s = !1,
a = new t(512),
c = new t(512),
g = new t(512)
try {
new Function('')
} catch (e) {
  s = !0
}
function l(e) {
  return (a.get(e) ||
    a.set(e,
    u(e).map(function (e) {
      return e.replace(i, '$2')
    })),
  )
}
function u(e) {
  return e.match(r)
}
function h(e, t, r) {
  return ('string' === typeof t && ((r = t), (t = !1)),
    (r = r || 'data'),
    (e = e || '') && '.' !== e.charAt(0) && (e = '.' + e),
    t ? (function (e, t) {
      var r,
        A = t,
        n = u(e)
      return (p(n, function (e, t, n, o, i) {
        (r = o === i.length - 1),
        (A +=
          (e = t || n ? '[' + e + ']': '.' + e) +
        )
      }),
    )
  )
}
(r ? ')' : ' || {})'))
}),
new Array(n.length + 1).join('(') + A
)
})(e, r)
:r+e
)
}
function p(e, t, r) {
var A,
n,
o,
i,
s = e.length
for (n = 0; n < s; n++)
(A = e[n]) &&
(C(A) && (A = '"' + A + '"'),
(o = !(i = d(A)) && /^\d+$/.test(A)),
t.call(r, A, i, o, n, e))
}
function d(e) {
return (
'string' == typeof e && e && -1 !== ["'", '"'].indexOf(e.charAt(0))
)
}
function C(e) {
return (
!d(e) &&
((function (e) {
return e.match(n) && !e.match(A)
})(e) ||
(function (e) {
return o.test(e)
})(e))
)
}
e.exports = {
Cache: t,
expr: h,
split: u,
normalizePath: l,
setter: s
? function (e) {
var t = l(e)
return function (e, r) {
return (function (e, t, r) {
var A = 0,
n = e.length

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for (; A < n - 1; ) t = t[e[A++]]
t[e[A]] = r
})(t, e, r)
}
}
: function (e) {
    return (c.get(e) ||
c.set(
e,
    new Function('data, value', h(e, 'data') + ' = value'),
    )
    )
    },
getter: s
? function (e, t) {
    var r = l(e)
    return function (e) {
        return function (e, t, r) {
            var A = 0,
n = e.length
        for (; A < n; ) {
            if (null == r && t) return
            r = r[e[A++]]
        }
        return r
    })(r, t, e)
    }
    }
}
: function (e, t) {
    var r = e + '_' + t
    return (g.get(r) ||
g.set(r, new Function('data', 'return ' + h(e, t, 'data'))) )
    },
join: function (e) {
    return e.reduce(function (e, t) {
        return (e + (d(t) || A.test(t) ? '[' + t + ']': (e ? '.': '') + t))
    }, '')
},
forEach: function (e, t, r) {
p(u(e), t, r)
}
,
forEach: function (e, t, r) {
p(u(e), t, r)
}
,
}
50372: (e, t, r) => {
    var A = r(91162),
    n = r(97681),
    o = r(35747),
    i = function () {},
    s = /^(v?\d+\./).test(process.version),
    a = function (e) {
        return 'function' == typeof e
    },
    c = function (e, t, r, c) {
        c = A(c)
        var g = 1
        e.on('close', function () {
            g = 0
        }).
        n(e, { readable: t, writable: r }, function (e) {
            if (e) return c(e)
            (g = 0), c()
        })
        var l = 1
        return function (t) {
            if (!g && !l)
                return (l = 0),
                (function (e) {
                    return (!s &&
                        !o &&
                        (e instanceof (o.ReadStream || i)) ||
                        e instanceof (o.WriteStream || i)) &&
                        a(e.close)
                    )
                })(e)
                ? e.close(i)
                : (function (e) {
                    return e.setHeader && a(e.abort)
                })(e)
                ? e.abort()
                : a(e.destroy)
                ? e.destroy()
                : void c(t || new Error('stream was destroyed'))
            
        }()
    },
    g = function (e) {
        e()
    },
    l = function (e, t) {
        (function (e, t) {
            (function (e) {
                return e.setHeader && a(e.abort)
            })(e)
            ? e.abort()
            : a(e.destroy)
            ? e.destroy()
            : void c(t || new Error('stream was destroyed'))
        })(e, t)
    }
}
```
return e.pipe(t)
}
e.exports = function () {
  var e,
    t = Array.prototype.slice.call(arguments),
    r = (a(t.length - 1) || i) & (t.pop()) || i
if ((Array.isArray(t[0]) & (t = t[0]), t.length < 2))
  throw new Error('pump requires two streams per minimum')
var A = t.map(function (n, o) {
  var i = o < t.length - 1
  return c(n, i, o > 0, function (t) {
    e || (e = t), t & (A.forEach(g), i || (A.forEach(g), r(e))
  })
})
return t.reduce(l)
},
},
49601: (e) => {
'use strict'
class t {
  constructor(e = {}) {
    if (!e.maxSize & e.maxSize > 0)
      throw new TypeError('maxSize must be a number greater than 0')
    (:this.maxSize = e.maxSize),
    (this.onEviction = e.onEviction),
    (this.cache = new Map()),
    (this.oldCache = new Map()),
    (this._size = 0)
  }
  _set(e, t) {
    if (this.cache.set(e, t), this._size++, this._size >= this.maxSize)
  }
  if ((this._size = 0), 'function' == typeof this.onEviction))
    for (const [e, t] of this.oldCache.entries())
      this.onEviction(e, t)
  (this.oldCache = this.cache), (this.cache = new Map())

  get(e) {
    if (this.cache.has(e)) return this.cache.get(e)
    if (this.oldCache.has(e)) {
      const t = this.oldCache.get(e)
      return this.oldCache.delete(e), this._set(e, t)
    }
  }
  set(e, t) {
    return (
this.cache.has(e) ? this.cache.set(e, t) : this._set(e, t), this
)
}

has(e) {
  return this.cache.has(e) || this.oldCache.has(e)
}

peek(e) {
  return this.cache.has(e)
    ? this.cache.get(e)
    : this.oldCache.has(e)
    ? this.oldCache.get(e)
    : void 0
}

delete(e) {
  const t = this.cache.delete(e)
  return t && this._size--, this.oldCache.delete(e) || t
}
clear() {
  this.cache.clear(), this.oldCache.clear(), (this._size = 0)
}

*keys() {
  for (const [e] of this) yield e
}

*values() {
  for (const [, e] of this) yield e
}

*[Symbol.iterator]() {
  for (const e of this.cache) yield e
  for (const e of this.oldCache) {
    const [t] = e
    this.cache.has(t) || (yield e)
  }
}

get size() {
  let e = 0
  for (const t of this.oldCache.keys()) this.cache.has(t) || e++
  return Math.min(this._size + e, this.maxSize)
}

e.exports = t
},
20663: (e) => {
  'use strict'
  const t = {

  function r(e, r, A) {
    A || (A = Error)
    class n extends A {
      constructor(e, t, A) {

super(
    (function (e, t, A) {
        return 'string' == typeof r ? r : r(e, t, A)
    })(e, t, A),
    )
  )
}
(n.prototype.name = A.name), (n.prototype.code = e), (t[e] = n)
}
function A(e, t) {
  if (Array.isArray(e)) {
    const r = e.length
    return (e = e.map((e) => String(e))),
    r > 2
      ? `one of ${t} ${e.slice(0, r - 1).join(', ')}, or ` + e[r - 1]
      : 2 === r
      ? `one of ${t} ${e[0]} or ${e[1]}`
      : `of ${t} ${e[0]}`
    
  }
  return `of ${t} ${String(e)}`
}
r('ERR_INVALID_OPT_VALUE',
  function (e, t) {
    return `The value " + t + " is invalid for option " + e + "`)
  },
  TypeError,
),
r('ERR_INVALID_ARG_TYPE',
  function (e, t, r) {
    let n
    var o, i
    let s
    if (t
    ('string' == typeof t &&
      ((o = 'not '), t.substr(!i || i < 0 ? 0 : +i, o.length) === o)
      ? ((n = 'must not be'), (t = t.replace(/\^not /, '')))
      : (n = 'must be'),
      (function (e, t, r) {
        return (void 0 === r || r > e.length) && (r = e.length),
        e.substring(r - t.length, r) === t
      })(e, 'argument'))
    )
  })}
s = `The ${e} ${n} ${A(t, 'type')}
else {
  s = `The "${e}" {
    (function (e, t, r) {
      return (n) ${A(t, 'type')}
    })
  )
}

r('ERR_STREAM_PUSH_AFTER_EOF', 'stream.push() after EOF'),

r('ERR_METHOD_NOT_IMPLEMENTED', function (e) {
  return 'The ' + e + ' method is not implemented' 
}),

r('ERR_STREAM_PREMATURE_CLOSE', 'Premature close'),

r('ERR_STREAM_DESTROYED', function (e) {
  return 'Cannot call ' + e + ' after a stream was destroyed' 
}),

r('ERR_MULTIPLE_CALLBACK', 'Callback called multiple times'),

r('ERR_STREAM_CANNOT_PIPE', 'Cannot pipe, not readable'),

r('ERR_STREAM_WRITE_AFTER_END', 'write after end'),

r('ERR_STREAM_NULL_VALUES', 'May not write null values to stream',
  TypeError,
),

r('ERR_UNKNOWN_ENCODING',
  function (e) {
    return 'Unknown encoding: ' + e
  },
  TypeError,
),

r('ERR_STREAM_UNSHIFT_AFTER_END_EVENT',
  'stream.unshift() after end event',
),

(e.exports.q = t
);

39138: (e) => {
  'use strict'
}
var t = new Set()
e.exports.emitExperimentalWarning = process.emitWarning

? function (e) {
    if (!t.has(e)) {
        var r =
            e +
            ' is an experimental feature. This feature could change at any time'
        t.add(e), process.emitWarning(r, 'ExperimentalWarning')
    }
}

: function () {}},

72434: (e, t, r) => {
  'use strict'
  var A =
      Object.keys ||
      function (e) {
        var t = []
        for (var r in e) t.push(r)
        return t
      }
e.exports = c
  var n = r(58020),
      o = r(6729)
  r(85870)(c, n)
  for (var i = A(o.prototype), s = 0; s < i.length; s++) {
    var a = i[s]
    c.prototype[a] || (c.prototype[a] = o.prototype[a])
  }
  function c(e) {
    if (!(this instanceof c)) return new c(e)
    n.call(this, e),
    o.call(this, e),
    (this.allowHalfOpen = !0),
    e &&
      (!1 !== e.readable && (this.readable = !1),
      !1 !== e.writable && (this.writable = !1),
      !1 !== e.allowHalfOpen &&
      ((this.allowHalfOpen = !1), this.once('end', g)))
  }
  function g() {
    this._writableState.ended || process.nextTick(l, this)
  }
  function l(e) {
    e.end()
  }
  Object.defineProperty(c.prototype, 'writableHighWaterMark', {
    enumerable: !1,
get: function () {
    return this._writableState.highWaterMark
},

Object.defineProperty(c.prototype, 'writableBuffer', {
    enumerable: !1,
    get: function () {
        return this._writableState && this._writableState.getBuffer()
    }
}),

Object.defineProperty(c.prototype, 'writableLength', {
    enumerable: !1,
    get: function () {
        return this._writableState.length
    }
}),

Object.defineProperty(c.prototype, 'destroyed', {
    enumerable: !1,
    get: function () {
        return (void 0 !== this._readableState &&
                void 0 !== this._writableState &
                this._readableState.destroyed &
                this._writableState.destroyed)
    },
    set: function (e) {
        void 0 !== this._readableState &&
        void 0 !== this._writableState &
        ((this._readableState.destroyed = e),
         (this._writableState.destroyed = e))
    }
}),

52444: (e, t, r) => {
    'use strict'
e.exports = n
var A = r(54801)
function n(e) {
    if (!(this instanceof n)) return new n(e)
    A.call(this, e)
}
    r(85870)(n, A),
    (n.prototype._transform = function (e, t, r) {
        r(null, e)
    })
},

58020: (e, t, r) => {

'use strict'
var A
;(e.exports = w), (w.ReadableState = m)
r(28614).EventEmitter
var n = function (e, t) {
    return e.listeners(t).length
},
o = r(49298),
i = r(64293).Buffer,
s = global.Uint8Array || function () {}
var a,
c = r(31669)
a = c && c.debuglog ? c.debuglog('stream') : function () {}
var g,
l,
u = r(43117),
h = r(32340),
p = r(77433).getHighWaterMark,
d = r(20663).q,
C = d.ERR_INVALID_ARG_TYPE,
f = d.ERR_STREAM_PUSH_AFTER_EOF,
l = d.ERR_METHOD_NOT_IMPLEMENTED,
E = d.ERR_STREAM_UNSHIFT_AFTER_END_EVENT,
B = r(39138).emitExperimentalWarning
r(85870)(w, o)
var y = ['error', 'close', 'destroy', 'pause', 'resume']
function m(e, t, n) {
    (A = A || r(72434)),
    (e = e || {}),
    'boolean' != typeof n && (n = t instanceof A),
    (this.objectMode = !!e.objectMode),
    n && (this.objectMode = this.objectMode || !!e.readableObjectMode),
    (this.highWaterMark = p(th, e, 'readableHighWaterMark', n)),
    (this.buffer = new u()),
    (this.length = 0),
    (this.pipes = null),
    (this.pipesCount = 0),
    (this.flowing = null),
    (this.ended = !1),
    (this.endEmitted = !1),
    (this.reading = !1),
    (this.sync = !0),
    (this.needReadable = !1),
    (this.emittedReadable = !1),
    (this.readableListening = !1),
    (this.resumeScheduled = !1),
    (this.paused = !0),
    (this.emitClose = !1 !== e.emitClose),
    (w.ReadableState = m)}
(this.destroyed = !1),
(this.defaultEncoding = e.defaultEncoding || 'utf8'),
(this.awaitDrain = 0),
(this.readingMore = !1),
(this.decoder = null),
(this.encoding = null),
e.encoding &&
  (g || (g = r(69538).s),
  (this.decoder = new g(e.encoding)),
  (this.encoding = e.encoding))
}

function w(e) {
if (((A = A || r(72434)), !(this instanceof w))) return new w(e)
var t = this instanceof A
; (this._readableState = new m(e, this, t)),
(this.readable = !0),
e &&
  ('function' == typeof e.read && (this._read = e.read),
  'function' == typeof e.destroy && (this._destroy = e.destroy)),
o.call(this)
}

function Q(e, t, r, A, n) {
  a('readableAddChunk', t)
  var o,
  c = e._readableState
if (null === t)
  (c.reading = !1),
  (function (e, t) {
    if (t.ended) return
    if (t.decoder) {
      var r = t.decoder.end()
      r && r.length &&
        (t.buffer.push(r),
        (t.length += t.objectMode ? 1 : r.length))
    ;(t.ended = !0),
    t.sync
    v(e)
    : ((t.needReadable = !1),
    t.emittedReadable || ((t.emittedReadable = !0), S(e)))
  })(e, c)
else if ()
  (n ||
  (o = (function (e, t) {
    var r
    ;(A = t),
    i.isBuffer(A) ||
A instanceof s ||
'string' == typeof t ||
void 0 === t ||
e.objectMode ||
(r = new C('chunk', ['string', 'Buffer', 'Uint8Array'], t))

var A

return r

})(c, t),
o)

)e.emit('error', o)
else if (c.objectMode || (t && t.length > 0))

if (  
'string' == typeof t ||
c.objectMode ||
Object.getPrototypeOf(t) === i.prototype ||
t = (function (e) {
    return i.from(e)
  })(t)),
A)

)c.endEmitted ? e.emit('error', new E()) : D(e, c, t, !0)
else if (c.ended) e.emit('error', new f())
else {
    if (c.destroyed) return !1
    ;(c.reading = !1),
c.decoder && !r
      ? ((t = c.decoder.write(t)),
        c.objectMode || 0 !== t.length ? D(e, c, t, !1) : k(e, c))
      : D(e, c, t, !1)
  }
else A || ((c.reading = !1), k(e, c))

return !c.ended && (c.length < c.highWaterMark || 0 === c.length)

}  

function D(e, t, r, A) {
    t.flowing && 0 === t.length && !t.sync
      ? ((t.awaitDrain = 0), e.emit('data', r))
      : ((t.length += t.objectMode ? 1 : r.length),
        A ? t.buffer.unshift(r) : t.buffer.push(r),
        t.needReadable && v(e)),
      k(e, t)
}

Object.defineProperty(w.prototype, 'destroyed', {
    enumerable: !1,
    get: function () {
        return (  
            void 0 !== this._readableState && this._readableState.destroyed
        )  
    }
})
function (e) {
    this._readableState && (this._readableState.destroyed = e)
},

(w.prototype.destroy = h.destroy),
(w.prototype._undestroy = h.undestroy),
(w.prototype._destroy = function (e, t) {
    t(e)
}),
(w.prototype.push = function (e, t) {
    var r,
        A = this._readableState
    return (
        A.objectMode
        ? (r = !0)
        : 'string' == typeof e &&
          ((t = t || A.defaultEncoding) !== A.encoding &&
           ((e = i.from(e, t)), (t = '')),
           (r = !0)),
        Q(this, e, t, !1, r)
    )
}),
(w.prototype.unshift = function (e) {
    return Q(this, e, null, !0, !1)
}),
(w.prototype.isPaused = function () {
    return !1 === this._readableState.flowing
}),
(w.prototype.setEncoding = function (e) {
    return (
        g || (g = r(69538).s),
        (this._readableState.decoder = new g(e)),
        (this._readableState.encoding = this._readableState.decoder.encoding),
        this
    )
})

function b(e, t) {
    return e <= 0 || (0 === t.length && t.ended)
    ? 0
    : t.objectMode
    ? 1
    : e != e
    ? t.flowing && t.length
    ? t.buffer.head.data.length
    : t.length
    : (e > t.highWaterMark &&
      t.highWaterMark = (function (e) {
return (e >= 8388608 ? (e = 8388608)
            : (e--,
               (e |= e >>> 1),
               (e |= e >>> 2),
               (e |= e >>> 4),
               (e |= e >>> 8),
               (e |= e >>> 16),
               e++),
            e)
        )(e)),
    e <= t.length
    ? e
    : t.ended
    ? t.length
    : ((t.needReadable = !0), 0)
})
function v(e) {
    var t = e._readableState
    ;(t.needReadable = !1),
    t.emittedReadable ||
    (a('emitReadable', t.flowing),
    (t.emittedReadable = !0),
    process.nextTick(S, e))
}
function S(e) {
    var t = e._readableState
    a('emitReadable_', t.destroyed, t.length, t.ended),
    t.destroyed || ('t.length & t.ended) || e.emit('readable'),
    (t.needReadable =
    !t.flowing && !t.ended && t.length <= t.highWaterMark),
    R(e)
}
function k(e, t) {
    t.readingMore || ((t.readingMore = !0), process.nextTick(N, e, t))
}
function N(e, t) {
    for (var r = t.length;
      !t.reading &&
      !t.ended &&
      t.length < t.highWaterMark &&
      (a('maybeReadMore read 0'), e.read(0), r != t.length);
    )
    r = t.length
0 !== e.length ||
  ((e.endEmitted = !0), (t.readable = !1), t.emit('end'))
}

function O(e, t) {
  for (var r = 0, A = e.length; r < A; r++) if (e[r] === t) return r
  return -1
}

w.prototype.read = function (e) {
  if (0 !== e.length || ((e.endEmitted = !0), (t.readable = !1), t.emit('end')))
    return
  O(e, t)
}

if (!E(0)
  return
}

A, n = t.needReadable
return
a('need readable', n),
(0 !== t.length || t.length - e < t.highWaterMark) &&
  a('length less than watermark', (n = !0)),
  t.ended || t.reading
? a('reading or ended', (n = !1))
  : n &&
    (a('do read'),
      (t.reading = !0),
      (t.sync = !0),
      0 !== t.length && (t.needReadable = !0),
      this._read(t.highWaterMark),
      (t.sync = !1),
      t.reading || (e = b(r, t))),
  null
if (0 === (e = b(e, t)) && t.ended)
  return 0 === t.length && (null)
var A,
  n = t.needReadable
return
a('need readable', n),
(0 !== t.length || t.length - e < t.highWaterMark) &&
  a('length less than watermark', (n = !0)),
  t.ended || t.reading
? a('reading or ended', (n = !1))
  : n &&
    (a('do read'),
      (t.reading = !0),
      (t.sync = !0),
      0 !== t.length && (t.needReadable = !0),
      this._read(t.highWaterMark),
      (t.sync = !1),
      t.reading || (e = b(r, t))),
  null
if (A = e > 0 ? x(e, t) : null)
  ? ((t.needReadable = !0), (e = 0))
    : ((t.length -= e), (t.awaitDrain = 0)),
  0 === t.length &&
    (t.ended || (t.needReadable = !0), r !== e && t.ended && L(this)),
  null
  return
null !== A && this.emit('data', A),
A
));

(w.prototype._read = function (e) {
    this.emit('error', new I('_read()'))
});

(w.prototype.pipe = function (e, t) {
    var r = this,
        A = this._readableState
    switch (A.pipesCount) {
    case 0:
        A.pipes = e
        break
    case 1:
        A.pipes = [A.pipes, e]
        break
    default:
        A.pipes.push(e)
    }
    (A.pipesCount += 1), a('pipe count=%d opts=%j', A.pipesCount, t)
    var o =
        (!t || !1 !== t.end) &&
        e !== process.stdout &&
        e !== process.stderr
    ? s
    : d
    function i(t, n) {
        a('onunpipe'),
        t === r &&
        n &&
        !1 === n.hasUnpiped &&
        ((n.hasUnpiped = !0),
        a('cleanup'),
        e.removeListener('close', h),
        e.removeListener('finish', p),
        e.removeListener('drain', c),
        e.removeListener('error', u),
        e.removeListener('unpipe', i),
        r.removeListener('end', s),
        r.removeListener('end', d),
        r.removeListener('data', l),
        (g = !0),
        !A.awaitDrain ||
        (e._writableState && !e._writableState.needDrain) ||
        c()}
}

function s() {
a('onend'), e.end()
}
A.endEmitted ? process.nextTick(o) : r.once('end', o), e.on('unpipe', i)
var c = (function (e) {
  return function () {
    var t = e._readableState
    a('pipeOnDrain', t.awaitDrain),
    t.awaitDrain && t.awaitDrain--,
    0 === t.awaitDrain && n(e, 'data') & & ((t.flowing = !0), R(e))
  }
}))(r)
e.on('drain', c)
var g = !1
function l(t) {
  a('ondata')
  var n = e.write(t)
  a('dest.write', n), !1 == n & &
    ((1 == A.pipesCount & & A.pipes == e) ||
    (A.pipesCount > 1 & & -1 == O(A.pipes, e)) & &
    !g & &
    (a('false write response, pause', A.awaitDrain),
    A.awaitDrain++),
    r.pause())
}
function u(t) {
  a('onerror', t),
  d(),
  e.removeListener('error', u), 0 == n(e, 'error') & & e.emit('error', t)
}
function h() {
  e.removeListener('finish', p), d()
}
function p() {
  a('onfinish'), e.removeListener('close', h), d()
}
function d() {
  a('unpipe'), r.unpipe(e)
}
return (r.on('data', l),
(function (e, t, r) {
  if ('Function' == typeof e.prependListener)
    return e.prependListener(t, r)
e._events & & e._events[t]
? Array.isArray(e._events[t])

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`e._events[t].unshift(r)`

`: (e._events[t] = [r, e._events[t]])
: e.on(t, r)`

`)(e, 'error', u),`

`e.once('close', h),`

`e.once('finish', p),`

`e.emit('pipe', r),`

`A.flowing || (A('pipe resume'), r.resume()),`

`e)`

`);`,

`(w.prototype.unpipe = function (e) {`

`var t = this._readableState,`

`r = { hasUnpiped: !1 }`

`if (0 === t.pipesCount) return this`

`if (1 === t.pipesCount) return (e && e !== t.pipes) || (e || (e = t.pipes), (t.pipes = null), (t.pipesCount = 0), (t.flowing = !1), e && e.emit('unpipe', this, r)), this `)

`if (!e) {`

`var A = t.pipes,`

`n = t.pipesCount`

`; (t.pipes = null), (t.pipesCount = 0), (t.flowing = !1) for (var o = 0; o < n; o++)

`A[o].emit('unpipe', this, { hasUnpiped: !1 }) return this `)

`var i = O(t.pipes, e)`

`return ( -1 === i ||

`t.pipes.splice(i, 1),`

`t.pipesCount -= 1,`

`1 === t.pipesCount && (t.pipes = t.pipes[0]), e.emit('unpipe', this, r), this `)

`});`,

`(w.prototype.on = function (e, t) {`

`var r = o.prototype.on.call(this, e, t),

`A = this._readableState`

`return ( 'data' === e`
? ((A.readableListening = this.listenerCount('readable') ＞ 0),
  !1 !== A.flowing && this.resume())
: 'readable' !== e &&
 (A.endEmitted ||
  A.readableListening ||
  ((A.readableListening = A.needReadable = !0),
   (A.flowing = !1),
   (A.emittedReadable = !1),
   a('on readable', A.length, A.reading),
   A.length
  ? v(this)
  : A.reading || process.nextTick(K, this)),

 r
 }
 }).
 (w.prototype.addListener = w.prototype.on),
 (w.prototype.removeListener = function (e, t) {
   var r = o.prototype.removeListener.call(this, e, t)
   return 'readable' === e && process.nextTick(F, this), r
 }),
 (w.prototype.removeAllListeners = function (e) {
   var t = o.prototype.removeAllListeners.apply(this, arguments)
   return (e !== void 0 || process.nextTick(F, this), t
   )
 }),
 (w.prototype.resume = function () {
   var e = this._readableState
   return (e.flowing ||
     a('resume'),
     (e.flowing = !e.readableListening),
     (function (e, t) {
       t.resumeScheduled ||
       ((t.resumeScheduled = !0), process.nextTick(M, e, t))
     })(this, e)),
     (e.paused = !1),
     this
   ),
 })
 ,
 (w.prototype.pause = function () {
   return (a('call pause flowing=%j', this._readableState.flowing),
     !1 !== this._readableState.flowing &&
     a('pause'),
     (this._readableState.flowing = !1),
     this.emit('pause'),
     (this._readableState.paused = !0),
   )
   )
 ;
this
})
(w.prototype.wrap = function (e) {
  var t = this,
  r = this._readableState,
  A = !1
  for (var n in (e.on('end', function () {
    if ((a('wrapped end'), r.decoder & & !r.ended)) {
      var e = r.decoder.end()
      e & & e.length & & t.push(e)
    }
    t.push(null)
  })),
  e.on('data', function (n) {
    :a('wrapped data'),
    r.decoder & & (n = r.decoder.write(n)),
    r.objectMode & & null == n ||
    ((r.objectMode || (n & & n.length)) & &
      (t.push(n) || ((A = !0), e.pause())))
  })),
  e)
  void 0 === this[n] & &
  'function' == typeof e[n] & &
  (this[n] = (function (t) {
    return function () {
      return e[t].apply(e, arguments)
    }
  })(n))
  for (var o = 0; o < y.length; o++)
    e.on(y[o], this.emit.bind(this, y[o]))
  return (this._read = function (t) {
    a('wrapped _read', t), A & & ((A = !1), e.resume())
  })),
  this
}),
'function' == typeof Symbol & &
(w.prototype[Symbol.asyncIterator] = function () {
  return (B('Readable[Symbol.asyncIterator]'),
    void 0 === 1 & & (l = r(4245)),
    l(this)
  })),
Object.defineProperty(w.prototype, 'readableHighWaterMark', {
  enumerable: !1,
get: function () {
    return this._readableState.highWaterMark
},
)
Object.defineProperty(w.prototype, 'readableBuffer', {
    enumerable: !1,
    get: function () {
        return this._readableState && this._readableState.buffer
    },
})
Object.defineProperty(w.prototype, 'readableFlowing', {
    enumerable: !1,
    get: function () {
        return this._readableState.flowing
    },
    set: function (e) {
        this._readableState && (this._readableState.flowing = e)
    },
}),
(w._fromList = x),
Object.defineProperty(w.prototype, 'readableLength', {
    enumerable: !1,
    get: function () {
        return this._readableState.length
    },
})
},
54801: (e, t, r) => {
    'use strict'
e.exports = g
var A = r(20663).q,
    n = A.ERR_METHOD_NOT_IMPLEMENTED,
o = A.ERR_MULTIPLE_CALLBACK,
i = A.ERR_TRANSFORM_ALREADY_TRANSFORMING,
s = A.ERR_TRANSFORM_WITH_LENGTH_0,
a = r(72434)
function c(e, t) {
    var r = this._transformState
    r.transforming = !1
    var A = r.writecb
    if (null === A) return this.emit('error', new o())
    ;(r.writechunk = null),
    (r.writecb = null),
    null != t && this.push(t),
    A(e)
    var n = this._readableState
    ;(n.reading = !1),
    (n.needReadable || n.length < n.highWaterMark) &&
this._read(n.highWaterMark)
}
function g(e) {
  if (!(this instanceof g)) return new g(e)
a.call(this, e),
  (this._transformState = {
    afterTransform: c.bind(this),
    needTransform: !1,
    transforming: !1,
    writecb: null,
    writechunk: null,
    writeencoding: null,
  }),
  (this._readableState.needReadable = !0),
  (this._readableState.sync = !1),
e &&
  ('function' == typeof e.transform &&
    (this._transform = e.transform),
  'function' == typeof e.flush && (this._flush = e.flush)),
  this.on('prefinish', l)
}
function l() {
  var e = this
  'function' != typeof this._flush || this._readableState.destroyed
    ? u(this, null, null)
    : this._flush(function (t, r) {
      u(e, t, r)
    })
}
function u(e, t, r) {
  if (t) return e.emit('error', t)
  if ((null != r && e.push(r), e._writableState.length)) throw new s()
  if (e._transformState.transforming) throw new i()
  return e.push(null)
}
r(85870)(g, a),
  (g.prototype.push = function (e, t) {
    return (this._transformState.needTransform = !1),
    a.prototype.push.call(this, e, t)
  }),
  (g.prototype._transform = function (e, t, r) {
    r(new n('_transform()'))
  }),
  (g.prototype._write = function (e, t, r) {
    var A = this._transformState
    if (}
((A.writecb = r),
(A.writechunk = e),
(A.writeencoding = t),
!A.transforming)
)
{
    var n = this._readableState
    ;((A.needTransform ||
       n.needReadable ||
       n.length < n.highWaterMark) &&
       this._read(n.highWaterMark)
    )
    )
},
(g.prototype._read = function (e) {
    var t = this._transformState
    null === t.writechunk || t.transforming
    ? (t.needTransform = !0)
    : ((t.transforming = !0),
        this._transform(
            t.writechunk,
            t.writeencoding,
            t.afterTransform,
        ))
    ),
(g.prototype._destroy = function (e, t) {
    a.prototype._destroy.call(this, e, function (e) {
        t(e)
    })
}),
),
6729: (e, t, r) => {
    'use strict'
    function A(e) {
        var t = this
        ;(this.next = null),
        (this.entry = null),
        (this.finish = function () {
            !(function (e, t, r) {
                var A = e.entry
                e.entry = null
                for (; A; ) {
                    var n = A.callback
                    t.pendingcb--, n(r), (A = A.next)
                }
                t.corkedRequestsFree.next = e
            })(t, e)
        })
    }
    var n
var o = { deprecate: r(73212) },
i = r(49298),
s = r(64293).Buffer,
a = global.Uint8Array || function () {} 
var c,
g = r(32340),
l = r(77433).getHighWaterMark,
u = r(20663).q,
h = u.ERR_INVALID_ARG_TYPE,
p = u.ERR_METHOD_NOT_IMPLEMENTED,
d = u.ERR_MULTIPLE_CALLBACK,
C = u.ERR_STREAM_CANT_PIPE,
f = u.ERR_STREAM_DESTROYED,
l = u.ERR_STREAM_NULL_VALUES,
E = u.ERR_STREAM_WRITE_AFTER_END,
B = u.ERR_UNKNOWN_ENCODING
function y() {
}
function m(e, t, o) {
:(n = n || r(72434)),
(e = e || {}),
'boolean' !== typeof o && (o = t instanceof n),
(this.objectMode = !!e.objectMode),
o && (this.objectMode = this.objectMode || !!e.writableObjectMode),
(this.highWaterMark = l(this, e, 'writableHighWaterMark', o)),
(this.finalCalled = !1),
(this.needDrain = !1),
(this.ending = !1),
(this.ended = !1),
(this.finished = !1),
(this.destroyed = !1)
var i = !1 === e.decodeStrings
:(this.decodeStrings = !i),
(this.defaultEncoding = e.defaultEncoding || 'utf8'),
(this.length = 0),
(this.writing = !1),
(this.corked = 0),
(this.sync = !0),
(this.bufferProcessing = !1),
(this.onwrite = function (e) {
!(function (e, t) {
var r = e._writableState,
A = r.sync,
 n = r.writecb
if ('function' !== typeof n) throw new d()
if (i
  ((function (e) {
  :(e.writing = !1),
'function' == typeof e.destroy && (this._destroy = e.destroy),
'function' == typeof e.final && (this._final = e.final)),
i.call(this)
}

function Q(e, t, r, A, n, o, i) {
  (t.writelen = A),
  (t.writecb = i),
  (t.writing = !0),
  (t.sync = !0),
  t.destroyed
  ? t.onwrite(new f('write'))
    : r
  ? e._writev(n, t.onwrite)
    : e._write(n, o, t.onwrite),
  (t.sync = !1)
}

function D(e, t, r, A) {
  r ||
  (function (e, t) {
    0 === t.length &&
    t.needDrain &&
    ((t.needDrain = !1), e.emit('drain'))
  })(e, t),
  t.pendingcb--,
  A(),
  k(e, t)
}

function b(e, t) {
  t.bufferProcessing = !0
  var r = t.bufferedRequest
  if (e._writev && r && r.next) {
    var n = t.bufferedRequestCount,
        o = new Array(n),
        i = t.corkedRequestsFree
    i.entry = r
    for (var s = 0, a = !0; r; )
      (o[s] = r), r.isBuf || (a = !1), (r = r.next), (s += 1)
    (o.allBuffers = a),
    Q(e, t, !0, t.length, o, ",", i.finish),
    t.pendingcb++,
    (t.lastBufferedRequest = null),
    i.next
      ? ((t.corkedRequestsFree = i.next), (i.next = null))
        : (t.corkedRequestsFree = new A(t)),
      (t.bufferedRequestCount = 0)
  } else {
    for (; r; ) {
      var c = r.chunk,
g = r.encoding,
l = r.callback
if (Q(e, t, !1, t.objectMode ? 1 : c.length, c, g, l),
  (r = r.next),
  t.bufferedRequestCount--,
  t.writing)
}
break
null == r && (t.lastBufferedRequest = null)
;(t.bufferedRequest = r), (t.bufferProcessing = !1)
}
function v(e) {
  return (e.ending &&
  0 === e.length &&
  null == e.bufferedRequest &&
  !e.finished &&
  !e.writing)
}
function S(e, t) {
  e._final(function (r) {
    t.pendingcb--,
    r && e.emit('error', r),
    (t.prefinished = !0),
    e.emit('prefinish'),
    k(e, t)
  })
}
function k(e, t) {
  var r = v(t)
  return (r &&
    (!function (e, t) {
      t.prefinished ||
      t.finalCalled ||
      (function () { return typeof e._final || t.destroyed
        ? ((t.prefinished = !0), e.emit('prefinish'))
        : (t.pendingcb++,
        (t.finalCalled = !0),
        process.nextTick(S, e, t))
      })(e, t),
      0 == t.pendingcb && ((t.finished = !0), e.emit('finish')),
      r)
  )}
(m.prototype.getBuffer = function () {
    for (var e = this.bufferedRequest, t = [[]]; e; )
        t.push(e), (e = e.next)
    return t
});
(function () {
    try {
        Object.defineProperty(m.prototype, 'buffer', {
            get: o.deprecate(
                function () {
                    return this.getBuffer()
                },
                '_writableState.buffer is deprecated. Use _writableState.getBuffer instead.',
                'DEP0003',
            ),
        })
    } catch (e) {} 
})(),
'function' == typeof Symbol &&
Symbol.hasInstance &&
Function' == typeof Function.prototype[Symbol.hasInstance]
? ((c = Function.prototype[Symbol.hasInstance]),
    Object.defineProperty(w, Symbol.hasInstance, {
        value: function (e) {
            return ( !c.call(this, e) ||
                (this === w && e && e._writableState instanceof m)
            )
        },
    })),
: (c = function (e) {
    return e instanceof this
}),
(w.prototype.pipe = function () {
    this.emit('error', new C())
}),
(w.prototype.write = function (e, t, r) {
    var A,
        n = this._writableState,
        o = !1,
        i = !n.objectMode &
            ((A = e), s.isBuffer(A) || A instanceof a)
    return (i &&
        !s.isBuffer(e) &&
        (e = (function (e) {
            return s.from(e)
        }))
    )
})
'function' == typeof t && ((r = t), (t = null)),
i ? (t = 'buffer') : t || (t = n.defaultEncoding),
'function' != typeof r && (r = y),
n.ending
? (function (e, t) {
  var r = new E()
  e.emit('error', r), process.nextTick(t, r)
}) (this, r)
: (i ||
  (function (e, t, r, A) {
    var n
    return (null === r
      ? (n = new I())
      : 'string' == typeof r
        ? t.objectMode
        : (n = new h('chunk', ['string', 'Buffer'], r)),
        !n || (e.emit('error', n), process.nextTick(A, n, !1))
    )
  })(this, n, e, r)) &&
n.pendingcb++,
(o = (function (e, t, r, A, n, o) {
  if (!r) {
    var i = (function (e, t, r) {
      e.objectMode ||
      !1 == e.decodeStrings ||
      'string' != typeof t
        ? (t = s.from(t, r))
        : t
    })(t, A, n)
    A !== i && ((r = !0), (n = 'buffer'), (A = i))
  }
  var a = t.objectMode ? 1 : A.length
  t.length += a
  var c = t.length < t.highWaterMark
  c || (t.needDrain = !0)
  if (t.writing || t.corked) {
    var g = t.lastBufferedRequest
    ;(t.lastBufferedRequest = {
      chunk: A,
      encoding: n,
      isBuf: r,
      callback: o,
      next: null,
    }),
    g
  ? (g.next = t.lastBufferedRequest)
: (t.bufferedRequest = t.lastBufferedRequest),
    (t.bufferedRequestCount += 1)
  } else Q(e, t, !1, a, n, o)
  return c
 })((this, n, i, e, t, r)),

  o
}
),
(w.prototype.cork = function () {
  this._writableState.corked++
}),
(w.prototype.uncork = function () {
  var e = this._writableState
  e.corked &
  (e.corked--,
   e.writing ||
   e.corked ||
   e.bufferProcessing ||
   !e.bufferedRequest ||
   b(this, e))
}),
(w.prototype.setDefaultEncoding = function (e) {
  if (
    ('string' == typeof e && (e = e.toLowerCase()),
    !([ 'hex',
      'utf8',
      'utf-8',
      'ascii',
      'binary',
      'base64',
      'ucs2',
      'ucs-2',
      'utf16le',
      'utf-16le',
      'raw',
    ].indexOf((e + '').toLowerCase()) > -1))
  )
    throw new B(e)
  return (this._writableState.defaultEncoding = e), this
}),
Object.defineProperty(w.prototype, 'writableBuffer', {
  enumerable: !1,
  get: function () {
    return this._writableState && this._writableState.getBuffer()}
}.}
w.prototype._undestroy = g.undestroy,
(w.prototype._destroy = function (e, t) {
  t(e)
})
,

4245: (e, t, r) => {
  'use strict'
  var A
  function n(e, t, r) {
    return (t in e
      ? Object.defineProperty(e, t, {
        value: r,
        enumerable: !0,
        configurable: !0,
        writable: !0,
      })
      : (e[t] = r),
    e
  }
}
var o = r(91327),
i = Symbol('lastResolve'),
s = Symbol('lastReject'),
a = Symbol('error'),
c = Symbol('ended'),
g = Symbol('lastPromise'),
l = Symbol('handlePromise'),
u = Symbol('stream')
function h(e, t) {
  return { value: e, done: t }
}
function p(e) {
  var t = e[i]
  if (null !== t) {
    var r = e[u].read()
    null !== r &&
      ((e[g] = null), (e[i] = null), (e[s] = null), t(h(r, !1)))
  }
}
function d(e) {
  process.nextTick(p, e)
}
var C = Object.getPrototypeOf(function () {}),
f = Object.setPrototypeOf(
n(}
  (A = {
    get stream() {

```javascript

e.exports = function (e) {
  var t,
      r = Object.create(f,
        (t = {}), u, { value: e, writable: !0 }),
        n(t, i, { value: null, writable: !0 }),
        n(t, s, { value: null, writable: !0 }),
        n(t, a, { value: null, writable: !0 }),
        n(t, c, { value: e._readableState.endEmitted, writable: !0 }),
        n(t, g, { value: null, writable: !0 }),
        n(t, l, {
          value: function (e, t) {
            var A = r[u].read()
              A
            ? ((r[g] = null), (r[i] = null), (r[s] = null), e(h(A, !1)))
            : ((r[i] = e), (r[s] = t))
          },
          writable: !0,
        }),
        t),
      )
  return (o(e, function (e) {
    if (e && 'ERR_STREAM_PREMATURE_CLOSE' !== e.code) {
      var t = r[s]
      return (null !== t &&
        ((r[g] = null), (r[i] = null), (r[s] = null), t(e)),
        void (r[a] = e)
      )
    } var A = r[i]
    null !== A &&
    ((r[g] = null), (r[i] = null), (r[s] = null), A(h(null, !0))),
    (r[c] = !0)
      )
  )
  var A = r[i]
  null !== A &&
  ((r[g] = null), (r[i] = null), (r[s] = null), A(h(null, !0))),
  (r[c] = !0)
  ),
  e.on('readable', d.bind(null, r)),
  r
  )
}.
43117: (e, t, r) => {
  'use strict'
  function A(e, t, r) {
    return (t in e
      ? Object.defineProperty(e, t, {
```
```javascript
var n = r(64293).Buffer,
o = r(31669).inspect,
i = (o & o.custom) || 'inspect'
e.exports = (function () {
  function e() {
    ;(this.head = null), (this.tail = null), (this.length = 0)
  }
  var t = e.prototype
  return (
    (t.push = function (e) {
      var t = { data: e, next: null }
      this.length > 0 ? (this.tail.next = t) : (this.head = t),
      (this.tail = t),
      ++this.length
    }),
    (t.unshift = function (e) {
      var t = { data: e, next: this.head }
      0 === this.length & (this.tail = t),
      (this.head = t),
      ++this.length
    }),
    (t.shift = function () {
      if (0 !== this.length) {
        var e = this.head.data
        return (1 === this.length
          ? (this.head = this.tail = null)
          : (this.head = this.head.next),
          --this.length,
        e)
      }
    }),
    (t.clear = function () {
      ;(this.head = this.tail = null), (this.length = 0)
    }),
    (t.join = function (e) {
      if (0 === this.length) return "
      for (var t = this.head, r = " + t.data; (t = t.next); )
    }
  }
})
```

r += e + t.data
return r
},
(t.concat = function (e) {
    if (0 === this.length) return n.alloc(0)
    for (var t, r, A, o = n.allocUnsafe(e >>> 0), i = this.head, s = 0; i;
    )
        (t = i.data),
        (r = o),
        (A = s),
        n.prototype.copy.call(t, r, A),
        (s += i.data.length),
        (i = i.next)
    return o
}),
(t.consume = function (e, t) {
    var r
    return r
    e < this.head.data.length
    ? ((r = this.head.data.slice(0, e)),
        (this.head.data = this.head.data.slice(e)))
    : (r =
        e === this.head.data.length
        ? this.shift()
        : t
        ? this._getString(e)
        : this._getBuffer(e)),
    r
}),
(t.first = function () {
    return this.head.data
}),
(t._getString = function (e) {
    var t = this.head,
    r = 1,
    A = t.data
    for (e -= A.length; (t = t.next); ) {
        var n = t.data,
        o = e > n.length ? n.length : e
        if (o === n.length ? (A += n) : (A += n.slice(0, e)),
            (e -= o))
        )
            o === n.length

t.next
? (this.head = t.next)
: (this.head = this.tail = null))
: ((this.head = t), (t.data = n.slice(o)))
break
}
++r
}
return (this.length -= r), A
}),
(t._getBuffer = function (e) {
var t = n.allocUnsafe(e),
r = this.head,
A = 1
for (r.data.copy(t), e -= r.data.length; (r = r.next); ) {
var o = r.data,
i = e > o.length ? o.length : e
if ((o.copy(t, t.length - e, 0, i), 0 === (e -= i)) {
    i === o.length
? (++A,
    r.next
? (this.head = r.next)
: (this.head = this.tail = null))
: ((this.head = r), (r.data = o.slice(i)))
break
}
++A
}
return (this.length -= A), t
}),
(t[i] = function (e, t) {
return o(
    this,
    (function (e) {
        for (var t = 1; t < arguments.length; t++) {
            var r = null !== arguments[t] ? arguments[t] : {},
n = Object.keys(r)
'function' === typeof Object.getOwnPropertySymbols &&
(n = n.concat(
    Object.getOwnPropertySymbols(r).filter(function (e) {
        return Object.getOwnPropertyDescriptor(r,
e,
        ).enumerable
    })))

n.forEach(function (t) {
)},
A(e, t, r(t))
}
return e
})((), t, { depth: 0, customInspect: !1 }),
), e
})()
}, 32340: (e) => {
'use strict'
function t(e, t) {
A(e, t, r(e)
}
function r(e) {
; (e._writableState && !e._writableState.emitClose) ||
(e._readableState && !e._readableState.emitClose) ||
e.emit('close')
}
function A(e, t) {
e.emit('error', t)
}
e.exports = {
destroy: function (e, n) {
var o = this,
i = this._readableState && this._readableState.destroyed,
s = this._writableState && this._writableState.destroyed
return i || s
? (n
? n(e)
: e ||
(this._writableState && this._writableState.errorEmitted) ||
process.nextTick(A, this, e),
this)
: (this._readableState && (this._readableState.destroyed = !0),
this._writableState && (this._writableState.destroyed = !0),
this._destroy(e || null, function (e) {
!n && e
? (process.nextTick(t, o, e),
o._writableState && (o._writableState.errorEmitted = !0))
: n
? (process.nextTick(r, o, n(e))
: process.nextTick(r, o)
}),
this)
},
undestroy: function () {
  this._readableState &&
  ((this._readableState.destroyed = !1),
  (this._readableState.reading = !1),
  (this._readableState.ended = !1),
  (this._readableState.endEmitted = !1)),
  this._writableState &&
  ((this._writableState.destroyed = !1),
  (this._writableState.ended = !1),
  (this._writableState.ending = !1),
  (this._writableState.finalCalled = !1),
  (this._writableState.prefinished = !1),
  (this._writableState.finished = !1),
  (this._writableState.errorEmitted = !1))
},
}
},
91327: (e, t, r) => {
  'use strict'
  var A = r(20663).q.ERR_STREAM_PREMATURE_CLOSE
  function n() {}
  e.exports = function e(t, r, o) {
    if ('function' !== typeof r) return e(t, null, r)
    r || (r = {}),
    o = (function (e) {
      var t = !1
      return function (r) {
        t || ((t = !0), e.call(this, r))
      }
    })(o || n)
    var i = t._writableState,
    s = t._readableState,
    a = r.readable || (!1 !== r.readable && t.readable),
    c = r.writable || (!1 !== r.writable && t.writable),
    g = function () {
      t.writable || l()
    },
    l = function () {
      ;(c = !1), a || o.call(t)
    },
    u = function () {
      ;(a = !1), c || o.call(t)
    },
    h = function (e) {
      o.call(t, e)
    },
    p = function () {
      return !(a || (s && s.ended)) && !(c || (i && i.ended))
    }
  }
}
? void 0
  : o.call(t, new A())
},

d = function () {
  t.req.on('finish', l)
}

return (  
  !(function (e) {
    return e.setHeader && 'function' === typeof e.abort
  })(l)  
  ? c && !l && (t.on('end', g), t.on('close', g))  
  : (t.on('complete', l),
        t.on('abort', p),
        t.req ? d() : t.on('request', d)),
    t.on('end', u),
    t.on('finish', l),
    !1 !== t.error && t.on('error', h),
    t.on('close', p),
    function () {  
      t.removeListener('complete', l),
      t.removeListener('abort', p),
      t.removeListener('request', d),
      t.req && t.req.removeListener('finish', l),
      t.removeListener('end', g),
      t.removeListener('close', g),
      t.removeListener('finish', l),
      t.removeListener('end', u),
      t.removeListener('close', p)
    }  
  )
}),

4939: (e, t, r) => {
  'use strict'
  var A
  var n = r(20663).q,
    o = n.ERR_MISSING_ARGS,
    i = n.ERR_STREAM_DESTROYED
  function s(e) {
    if (e) throw e
  }
  function a(e, t, n, o) {
    o = (function (e) {
      var t = !1
      return function () {
        t || ((t = !0), e.apply(void 0, arguments))
      }
    })(e)
  }
A || (A = e), e && i.forEach(c), o || (i.forEach(c), n(A))
})
})
return t.reduce(g)
}
",
77433: (e, t, r) => {
'use strict'
var A = r(20663).q.ERR_INVALID_OPT_VALUE
e.exports = {
getHighWaterMark: function (e, t, r, n) {
    var o = (function (e, t, r) {
        return null != e.highWaterMark ? e.highWaterMark : t ? e[r] : null
    })(t, n, r)
    if (null != o) {
        if (!isFinite(o) || Math.floor(o) !== o || o < 0)
            throw new A(n ? r : 'highWaterMark', o)
        return Math.floor(o)
    }
    return e.objectMode ? 16 : 16384
},
},
},
49298: (e, t, r) => {
e.exports = r(92413)
},
86897: (e, t, r) => {
    var A = r(92413)
    'disable' === process.env.READABLE_STREAM && A
    ? ((e.exports = A.Readable),
        Object.assign(e.exports, A),
        (e.exports.Stream = A))
    : (((t = e.exports = r(58020)).Stream = A || t),
        (t.Readable = t),
        (tWritable = r(6729)),
        (t.Duplex = r(72434)),
        (t.Transform = r(54801)),
        (t.PassThrough = r(52444)),
        (t.finished = r(91327)),
        (t.pipeline = r(4939)))
},
19476: (e, t, r) => {
    'use strict'
    const A = r(4016)
e.exports = (e = { }) => {
        new Promise((t, r) => {
            const n = A.connect(e, () => {
                e.resolveSocket
```
```javascript
'use strict'

const A = r(92413).Readable,
    n = r(55737)

exports = class extends A {
    constructor(e, t, r, A) {
        if ('number' != typeof e)
            throw new TypeError('Argument `statusCode` should be a number')
        if ('object' != typeof t)
            throw new TypeError('Argument `headers` should be an object')
        if (!r instanceof Buffer)
            throw new TypeError('Argument `body` should be a buffer')
        if ('string' != typeof A)
            throw new TypeError('Argument `url` should be a string')
        super(),
        (this.statusCode = e),
        (this.headers = n(t)),
        (this.body = r),
        (this.url = A)
    }
    _read() {
        this.push(this.body), this.push(null)
    }
}

exports = function (e) {
    var t = new e(),
        r = t
    return {
        get: function () {
            var A = t
            return {
                A?.next ? (t = A.next) : ((t = new e()), (r = t)),
                (A.next = null),
                A
            },
            release: function (e) {
                (r.next = e), (r = e)
            }
        }
    }
}
```
69078: (e) => {
  e.exports = function (e, t) {
    var r,
      A,
      n,
      o = !0
    Array.isArray(e)
      ? ((r = []), (A = e.length))
      : ((n = Object.keys(e)), (r = []), (A = n.length))
    function i(e) {
      function A() {
        t && t(e, r), (t = null)
      }
      o ? process.nextTick(A : A())
    }
    function s(e, t, n) {
      (e[e] = n), (0 == --A || t) && i(t)
    }
    A
      ? n
      ? n.forEach(function (t) {
          e[t](function (e, r) {
            s(t, e, r)
          })
        })
      : e.forEach(function (e, t) {
          e(function (e, r) {
            s(t, e, r)
          })
        })
      : i(null)
    o = !1
  }
}
13499: (e, t, r) => {
  var A = r(64293),
    n = A.Buffer
  function o(e, t) {
    for (var r in e) t[r] = e[r]
  }
  function i(e, t, r) {
    return n(e, t, r)
  }
  n.from && n.alloc && n.allocUnsafe && n.allocUnsafeSlow
? (e.exports = A)
: (o(A, t), (t.Buffer = i)),
(o(n, i),
(i.from = function (e, t, r) {
    if ('number' === typeof e)
        throw new TypeError('Argument must not be a number')
    return n(e, t, r)
}),
(i.alloc = function (e, t, r) {
    if ('number' !== typeof e)
        throw new TypeError('Argument must be a number')
    var A = n(e)
    return (
        void 0 !== t
            ? 'string' === typeof r
                ? A.fill(t, r)
                : A.fill(t)
            : A.fill(0),
            A
        )
    }),
(i.allocUnsafe = function (e) {
    if ('number' !== typeof e)
        throw new TypeError('Argument must be a number')
    return n(e)
}),
(i.allocUnsafeSlow = function (e) {
    if ('number' !== typeof e)
        throw new TypeError('Argument must be a number')
    return A.SlowBuffer(e)
})
},
95584: (e, t) => {
    var r;
    (t = e.exports = l),
    (r =
        'object' === typeof process &&
        process.env &&
        process.env.NODE_DEBUG &&
        /\bsemver\b/i.test(process.env.NODE_DEBUG)
    )
        ? function () {
            var e = Array.prototype.slice.call(arguments, 0)
            e.unshift('SEMVER'), console.log.apply(console, e)
        }
        : function () {}
    )
    ,(t.SEMVER_SPEC_VERSION = '2.0.0')
    var A = Number.MAX_SAFE_INTEGER || 9007199254740991,
    n = (t.re = [])
    }
o = (t.src = []),
i = (t.tokens = {}),
s = 0
function a(e) {
    i[e] = s++
}
a('NUMERICIDENTIFIER'),
(o[i.NUMERICIDENTIFIER] = '0|[1-9]\d*'),
a('NUMERICIDENTIFIERLOOSE'),
(o[i.NUMERICIDENTIFIERLOOSE] = '[0-9]+'),
a('NONNUMERICIDENTIFIER'),
(o[i.NONNUMERICIDENTIFIER] = '\d*[^a-zA-Z-][a-zA-Z0-9-]*'),
a('MAINVERSION'),
(o[i.MAINVERSION] =
    '(' +
    o[i.NUMERICIDENTIFIER] +
    ')?\.((' +
    o[i.NUMERICIDENTIFIER] +
    ')?\.((' +
    o[i.NUMERICIDENTIFIER] +
    ')'),
a('MAINVERSIONLOOSE'),
(o[i.MAINVERSIONLOOSE] =
    '(' +
    o[i.NUMERICIDENTIFIERLOOSE] +
    ')?\.((' +
    o[i.NUMERICIDENTIFIERLOOSE] +
    ')?\.((' +
    o[i.NUMERICIDENTIFIERLOOSE] +
    ')'),
a('PRERELEASEIDENTIFIER'),
(o[i.PRERELEASEIDENTIFIER] =
    '(' +
    o[i.NUMERICIDENTIFIER] +
    '?' +
    o[i.NONNUMERICIDENTIFIER] +
    ')'),
a('PRERELEASEIDENTIFIERLOOSE'),
(o[i.PRERELEASEIDENTIFIERLOOSE] =
    '(' +
    o[i.NUMERICIDENTIFIERLOOSE] +
    '?' +
    o[i.NONNUMERICIDENTIFIER] +
    ')'),
a('PRERELEASE'),
(o[i.PRERELEASE] =
    '?' +
    o[i.PRERELEASEIDENTIFIER] +
    ')'
o[i.XRANGEIDENTIFIER] +
  ')(' +
o[i.PRERELEASE] +
  ')(' +
o[i.BUILD] +
  ')?')?),
a('XRANGEPLAINLOOSE'),
(o[i.XRANGEPLAINLOOSE] =
  '[v=\s]*(' +
o[i.XRANGEIDENTIFIERLOOSE] +
  ')(' +
o[i.XRANGEIDENTIFIERLOOSE] +
  ')(' +
o[i.XRANGEIDENTIFIERLOOSE] +
  ')(' +
o[i.PRERELEASELOOSE] +
  ')(' +
o[i.BUILD] +
  ')?')?),
a('XRANGE'),
(o[i.XRANGE] = '^' + o[i.GTLT] + '\s*' + o[i.XRANGEPLAIN] + '$'),
a('XRANGELOOSE'),
(o[i.XRANGELOOSE] =
  '^' + o[i.XRANGEPLAINLOOSE] + '$'),
a('COERCE'),
(o[i.COERCE] =
  '^' + o[i.GTLT] + '\s*' + o[i.XRANGEPLAIN] + '$'),
a('TILDE'),
(o[i.LONETILDE] = '(?:~>')?),
a('CARET'),
(o[i.LONECARET] = '(?:\^)'),
a('LONECARET'),
(o[i.CARETTRIM] = new RegExp(o[i.CARET], 'g')),
a('TILDELOOSE'),
(o[i.LONETILDE] = '^[^\d]*$'),
a('CARET'),
(o[i.CARET] = '^[^\d]*$'),
(o[i.CARET] = '^[^\d]*$'),
a('CARET'),
'^' + o[i.LONECARET] + o[i.XRANGEPLAINLOOSE] + '\$'),
a('COMPARATORLOOSE'),
(o[i.COMPARATORLOOSE] =
'^' + o[i.GTLT] + '\s*(' + o[i.LOOSEPLAIN] + ')\$\$'),
a('COMPARATOR'),
(o[i.COMPARATOR] =
'^' + o[i.GTLT] + '\s*(' + o[i.FULLPLAIN] + ')\$\$'),
a('COMPARATORTRIM'),
(o[i.COMPARATORTRIM] =
'(\s*)' + o[i.GTLT] + '\s*(' + o[i.LOOSEPLAIN] + ')' + o[i.XRANGEPLAIN] + ')'),
(n[i.COMPARATORTRIM] = new RegExp(o[i.COMPARATORTRIM], 'g'))
a('HYPHENRANGE'),
(o[i.HYPHENRANGE] =
'\s*(' + o[i.XRANGEPLAIN] + ')\s+-\s+(' + o[i.XRANGEPLAIN] + ')\s*\$'),
a('HYPHENRANGELOOSE'),
(o[i.HYPHENRANGELOOSE] =
'\s*(' + o[i.XRANGEPLAINLOOSE] + ')\s+-\s+(' + o[i.XRANGEPLAINLOOSE] + ')\s*\$'),
a('STAR'),
(o[i.STAR] = '(<|>)?\*\s*\*')
for (var c = 0; c < s; c++)
r(c, o[c]), n[c] || (n[c] = new RegExp(o[c]))
function g(e, t) {
  if (
    ((t & & 'object' == typeof t) ||
      (t = { loose: !t, includePrerelease: !1 })),
    e instanceof l)
  )
    return e
  if ('string' != typeof e) return null
  if (e.length > 256) return null
  if (!t.loose ? n[i.LOOSE] : n[i.FULL]).test(e) return null
  try {
    return new l(e, t)
  } catch (e) {
(t.clean = function (e, t) {
    var r = g(e.trim().replace(/^[=v]+/, ""), t)
    return r ? r.version : null
}),
(t.SemVer = l),
(l.prototype.format = function () {
    return (
        (this.version = this.major + '.' + this.minor + '.' + this.patch),
        this.prerelease.length &&
        (this.version += '-' + this.prerelease.join('.')),
        this.version
    )
}),
(l.prototype.toString = function () {
    return this.version
}),
(l.prototype.compare = function (e) {
    return (r('SemVer.compare', this.version, this.options, e),
        e instanceof l || (e = new l(e, this.options)),
        this.compareMain(e) || this.comparePre(e)
    )
}),
(l.prototype.compareMain = function (e) {
    return (e instanceof l || (e = new l(e, this.options)),
        h(this.major, e.major) ||
        h(this.minor, e.minor) ||
        h(this.patch, e.patch)
    )
}),
(l.prototype.comparePre = function (e) {
    if (e instanceof l || (e = new l(e, this.options)),
        this.prerelease.length &&!e.prerelease.length)
    return -1
    if (!this.prerelease.length && e.prerelease.length) return 1
    if (!this.prerelease.length &&!e.prerelease.length) return 0
    var t = 0
    do {
        var A = this.prerelease[t],
            n = e.prerelease[t]
        if (r('prerelease compare', t, A, n), void 0 === A && void 0 === n)
            return 0
        if (void 0 === n) return 1
    } while (t++ < this.prerelease.length || t < e.prerelease.length)
if (void 0 === A) return -1
if (A !== n) return h(A, n)
} while (++t)

var r = function (r, e, t, A, n) {

e instanceof l || (e = new l(e, this.options))
var t = 0
do {
    var A = this.build[t],
    n = e.build[t]
    if (
        (r('prerelease compare', t, A, n), void 0 === A && void 0 === n)
    )
        return 0
    if (void 0 === n) return 1
    if (void 0 === A) return -1
    if (A !== n) return h(A, n)
} while (++t)

l.prototype.inc = function (e, t) {
    switch (e) {
    case 'premajor':
        (this.prerelease.length = 0),
        (this.patch = 0),
        (this.minor = 0),
        this.major++,
        this.inc('pre', t)
        break
    case 'preminor':
        (this.prerelease.length = 0),
        (this.patch = 0),
        this.minor++,
        this.inc('pre', t)
        break
    case 'prepatch':
        (this.prerelease.length = 0),
        this.inc('patch', t),
        this.inc('pre', t)
        break
    case 'prerelease':
        0 === this.prerelease.length && this.inc('patch', t),
        this.inc('pre', t)
        break
    case 'major':
        0 === this.minor &&
        0 === this.patch &&
        0 !== this.prerelease.length) ||
        this.major++,
(this.minor = 0),
(this.patch = 0),
(this.prerelease = [])
break
case 'minor':
  if (0 === this.patch) 0 !== this.prerelease.length ||
    this.minor++,
  (this.patch = 0),
  (this.prerelease = [])
break
case 'patch':
  if (0 === this.patch) this.patch++,
  (this.prerelease = [])
break
case 'pre':
  if (0 === this.prerelease.length) this.prerelease = [0]
else {
  for (var r = this.prerelease.length; --r >= 0; )
    'number' == typeof this.prerelease[r] &&
    (this.prerelease[r]++, (r = -2))
  if (1 === r && this.prerelease.push(0)
} } else {
  (this.prerelease[0] === t
  ? isNaN(this.prerelease[1]) && (this.prerelease = [t, 0])
  : (this.prerelease = [t, 0]))
break
default:
  throw new Error('invalid increment argument: ' + e)
} 
return this.format(), (this.raw = this.version), this
}),
(t.inc = function (e, t, r, A) {
  'string' == typeof r && ((A = r), (r = void 0))
  try {
    return new l(e, r).inc(t, A).version
  } catch (e) {
    return null
  }
});
(t.diff = function (e, t) {
  if (!e || !t) return null
  var r = g(e),
  A = g(t),
  n = ''
  if (r.prerelease.length || A.prerelease.length) {
    n = 'pre'
  var o = 'prerelease'

  return
}

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for (var i in r)
    if (
        ('major' === i || 'minor' === i || 'patch' === i) &&
        r[i] !== A[i]
    )
        return n + i
    return o
});
(t.compareIdentifiers = h)
var u = /[0-9]+$/
function h(e, t) {
    var r = u.test(e),
        A = u.test(t)
    return (r && A && ((e = +e), (t = +t)),
        e === t ? 0 : r && !A ? -1 : A && !r ? 1 : e < t ? -1 : 1
    )
}
function p(e, t, r) {
    return new l(e, r).compare(new l(t, r))
}
function d(e, t, r) {
    return p(e, t, r) > 0
}
function C(e, t, r) {
    return p(e, t, r) < 0
}
function f(e, t, r) {
    return 0 === p(e, t, r)
}
function I(e, t, r) {
    return 0 !== p(e, t, r)
}
function E(e, t, r) {
    return p(e, t, r) >= 0
}
function B(e, t, r) {
    return p(e, t, r) <= 0
}
function y(e, t, r, A) {
    switch (t) {
    case '===':
        return (e === r)
    case 'undefined' && typeof e &

case '!=':
    return ((typeof e === 'object' && (e = e.version),
              typeof r === 'object' && (r = r.version),
              e !== r)
    )
    case '':
    case '=':
    case '==':
        return f(e, r, A)
    case '!=':
        return I(e, r, A)
    case '>':
        return d(e, r, A)
    case '>=':
        return E(e, r, A)
    case '<':
        return C(e, r, A)
    case '<=':
        return B(e, r, A)
    default:
        throw new TypeError('Invalid operator: ' + t)}
}
}

function m(e, t) {
    if (e && 'object' === typeof t)
        t = { loose: !!t, includePrerelease: !1 },
    e instanceof m)
    )
    if (e.loose === !!t.loose) return e
    e = e.value
    }
    if (!e) return new m(e, t)
    r('comparator', e, t),
    (this.options = t),
    (this.loose = !!t.loose),
    this.parse(e),
    this.semver === w
        ? (this.value = '')
        : (this.value = this.operator + this.semver.version),
    r('comp', this)
    )
    )
    if (!this instanceof m) return new m(e, t)
    t.rcompareIdentifiers = function (e, t) {
        return h(t, e)
    }),
    (t.major = function (e, t) {
        return new l(e, t).major
(t.minor = function (e, t) {
    return new l(e, t).minor
}),
(t.patch = function (e, t) {
    return new l(e, t).patch
}),
(t.compare = p),
(t.compareLoose = function (e, t) {
    return p(e, t, !0)
}),
(t.compareBuild = function (e, t, r) {
    var A = new l(e, r),
        n = new l(t, r)
    return A.compare(n) || A.compareBuild(n)
}),
(t.rcompare = function (e, t, r) {
    return p(t, e, r)
}),
(t.sort = function (e, r) {
    return e.sort(function (e, A) {
        return t.compareBuild(e, A, r)
    })
}),
(t.rsort = function (e, r) {
    return e.sort(function (e, A) {
        return t.compareBuild(A, e, r)
    })
}),
(t.gt = d),
(t.lt = C),
(t.eq = f),
(t.neq = I),
(t.gte = E),
(t.lte = B),
(t.cmp = y),
(t.Comparator = m)
var w = {}
function Q(e, t) {
    if (t && t.constructor) {
        if (t.constructor && t.constructor.name === 'Object') {
            t = { loose: !!t, includePrerelease: !!1 },
        } else if (t instanceof Q) {
            return t.loose === !!t.loose &&
            t.includePrerelease === !!t.includePrerelease
        } else if (e instanceof Q) {
            return e.loose === !!e.loose &&
            e.includePrerelease === !!e.includePrerelease
        }
    } else {
        return new Q(e.raw, t)
    }
if (e instanceof m) return new Q(e.value, t)
if (!(this instanceof Q)) return new Q(e, t)
if (this.options = t,
    this.loose = !!t.loose,
    this.includePrerelease = !!t.includePrerelease,
    this.raw = e,
    this.set = e
    .split(/s*\|\|s*/)
    .map(function (e) {
        return this.parseRange(e.trim())
    }, this)
    .filter(function (e) {
        return e.length
    })));
!this.set.length)
)
throw new TypeError('Invalid SemVer Range: \'+ e)
this.format()
}
function D(e, t) {
    for (var r = !0, A = e.slice(), n = A.pop(); r && A.length; )
        (r = A.every(function (e) {
            return n.intersects(e, t)
        })),
        (n = A.pop())
    return r
}
function b(e) {
    return !e || 'x' === e.toLowerCase() || '*' === e
}
function v(e, t, r, A, o, i, s, a, c, g, l, u) {
    return (t = b(r)
    ? ''
    : b(A)
    ? '>=' + r + '.0.0'
    : b(n)
    ? '>=' + r + '.' + A + '.0'
    : '>=' + t) +
    ' ' +
    (s = b(a)
    ? ''
    : b(c)
    ? '<' + (+a + 1) + '.0.0'
    : b(g)
    ? '<' + a + '.' + (+c + 1) + '.0'
    : l

function S(e, t, A) {
  for (var n = 0; n < e.length; n++) if (!e[n].test(t)) return false
  if (t.prerelease.length && !A.includePrerelease) {
    for (n = 0; n < e.length; n++)
      if (r(e[n].semver),
          e[n].semver !== w && e[n].semver.prerelease.length > 0)
        var o = e[n].semver
        if (o.major === t.major &&
            o.minor === t.minor &&
            o.patch === t.patch)
          return true
  }
  return false
}

function k(e, t, r) {
  try {
    t = new Q(t, r)
  } catch (e) {
    return false
  }
  return t.test(e)
}

function N(e, t, r, A) {
  var n, o, i, s, a
  switch (((e = new l(e, A)), (t = new Q(t, A)), r)) {
    case '>':
      (n = d), (o = B), (i = C), (s = '>'), (a = '>=')
      break
    case '<':
      (n = C), (o = E), (i = d), (s = '<'), (a = '<=')
      break
    default:
      throw new TypeError('Must provide a hilo val of "<" or ">"')
  }
  if (k(e, t, A)) return false
  for (var c = 0; c < t.set.length; ++c) {
    var g = t.set[c],
        u = null,
h = null
if (g.forEach(function (e) {
    e.semver === w &
    (e = new m(’>=0.0.0’)),
    (u = u || e),
    (h = h || e),
    n(e.semver, u.semver, A)
    ? (u = e)
    : i(e.semver, h.semver, A) &
    (h = e)
}).
    u.operator === s || u.operator === a)
)
    return !1
if (!h.operator || h.operator === s && o(e, h.semver)) return !1
if (h.operator === a && i(e, h.semver)) return !1
}
return !0
}
;m.prototype.parse = function (e) {
    var t = this.options.loose ? n[i.COMPARATORLOOSE] : n[i.COMPARATOR],
    r = e.match(t)
    if (!r) throw new TypeError(’Invalid comparator: ’ + e)
    ’=’ === this.operator &
    (this.operator = ’’),
    r[2]
    ? (this.semver = new l(r[2], this.options.loose))
    : (this.semver = w)
}).
    (m.prototype.toString = function () {
        return this.value
    }),
    (m.prototype,test = function (e) {
        if (r(’Comparator,test’, e, this.options.loose),
            this.semver === w || e === w)
    )
        return !0
    if (’string’ === typeof e)
        try {
            e = new l(e, this.options)
        } catch (e) {
            return !1
        }
    return y(e, this.operator, this.semver, this.options)
}).
    (m.prototype.intersects = function (e, t) {
        if (!e instanceof m)
            throw new TypeError(’a Comparator is required’)
    });
var r
if (t && 'object' == typeof t)
    (t = { loose: !!t, includePrerelease: !!1 }),
"" === this.operator)
)
return ( 
"" === this.value []
((r = new Q(e.value, t)), k(this.value, r, t))
)
if ("" === e.operator)
return ( 
"" === e.value []
((r = new Q(this.value, t)), k(e.semver, r, t))
)
var A = !(  
(">=" !== this.operator && '>', !== this.operator) ]
(">=" !== e.operator && '>', !== this.operator) ),
n = !(  
('<=' !== this.operator && '<' !== this.operator) ]
('<=' !== e.operator && '<' !== this.operator) ),
o = this.semver.version === e.semver.version,
i = !(  
(">=" !== this.operator && '<=' !== this.operator) ]
(">=" !== e.operator && '<=' !== this.operator) ),
s =  
y(this.semver, '<', e.semver, t) &
(">=" === this.operator || '>', === this.operator) &
('<=' === e.operator || '<' === e.operator),
a =  
y(this.semver, '>', e.semver, t) &
(">=" === this.operator || '<' === this.operator) &
(">=" === e.operator || '>' === e.operator)
return A || n || (o && i) || s || a )
),
(t.Range = Q),
(Q.prototype.format = function () { return ( 
(this.range = this.set
 .map(function (e) {
    return e.join(" "),trim()
 )
_JOIN[" "])
.trim()),
this.range)
Q.prototype.toString = function () {
    return this.range
},

Q.prototype.parseRange = function (e) {
    var t = this.options.loose
    e = e.trim()
    var A = t ? n[i.HYPHENRANGELOOSE] : n[i.HYPHENRANGE]
    (e = e.replace(A, v)),
    r('hyphen replace', e),
    (e = e.replace(n[i.COMPARATORTRIM], '$1S253')),
    r('comparator trim', e, n[i.COMPARATORTRIM]),
    (e = (e = e.replace(n[i.TILDETRIM], '$1^-')).replace(n[i.CARETTRIM], '$1^',
    ))
    .split(/s+/)
    .join(''))
    var o = t ? n[i.COMPARATORLOOSE] : n[i.COMPARATOR],
    s = e
    .split(' ')
    .map(function (e) {
        return (function (e, t) {
            return (r('comp', e, t),
            (e = (function (e, t) {
                return e
                .trim()
                .split(/s+/)
            }))
                .map(function (e) {
                    return (function (e, t) {
                        r('caret', e, t, A, n, o, i)
                        var A = t.loose ? n[i.CARETLOOSE] : n[i.CARET]
                        return e.replace(A, function (t, A, n, o, i) {
                            var s
                            return (r('caret', e, t, A, n, o, i),
                            b(A)
                            ? (s = '')
                            : b(n)
                            ? (s =
                            '>=' + A + '.0.0 <' + (+A + 1) + '.0.0')
                            : b(o)
                            ? (s =
                            '0' === A
                            ? '>' +
                            A +
                            )
                            : s
                            )
                            .slice(1)
                            .split(/

\[ \begin{align*} &'.' + \\
&n + \\
&'0 <' + \\
&A + \\
&'.' + \\
&(+n + 1) + \\
&'0' \\
:&>=' + \\
&A + \\
&'.' + \\
&n + \\
&'0 <' + \\
&(+A + 1) + \\
&'0.0') \\
:i \\
? (r('replaceCaret pr'. i), \\
(s = \\
'0' === A \\
? '0' === n \\
? '>=' + \\
&A + \\
&'.' + \\
&n + \\
&'.' + \\
&o + \\
&'.' + \\
&i + \\
&' <' + \\
&A + \\
&'.' + \\
&n + \\
&'.' + \\
&(+o + 1) \\
:&>=' + \\
&A + \\
&'.' + \\
&n + \\
&'.' + \\
&o + \\
&'.' + \\
&i + \\
&' <' + \\
&A + \\
&'.' + \\
&(+n + 1) + \\
&'0' \\
:&>=' + \\
&A + \\
&'.' + \\
&n + \\
&'.' + \\
&o + \\
&'.' + \\
&i + \\
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:&>=' + \\
&A + \end{align*} \]
(e = (function (e, t) {
    return e
    .trim()
    .split(/\s+/)
    .map(function (e) {
        return (function (e, t) {
            var A = t.loose ? n[i.TILDELOOSE] : n[i.TILDE]
            return e.replace(A, function (t, A, n, o, i) {
                var s
                return (r('tilde', e, t, A, n, o, i),
                        b(A)
                    ? (s = "")
                    : b(n)
                    ? (s =
                        '>=' + A + '.0.0 <' + (+A + 1) + '.0.0')
                    : b(o)
                    ? (s =
                        '>=' + A + '.' + n + '
                    : i
                    ? (r('replaceTilde pr', i),
                        (s =
                            '>=' + A + '.0.0 <' + (+A + 1) + '.0.0'))
                        : i
                        ? (r('replaceTilde pr', i),
                            (s =
                                '>=' + A + '.0.0 <' + (+A + 1) + '.0.0'))
                            : i
                            ? (r('replaceTilde pr', i),
                                (s =
                                    '>=' + A + '.0.0 <' + (+A + 1) + '.0.0'))
                                    : i
                                    ? (r('replaceTilde pr', i),
                                        (s =
                                            '>=' + A + '.0.0 <' + (+A + 1) + '.0.0'))
                                            : i
                                            ? (r('replaceTilde pr', i),
                                                (s =
                                                    '>=' + A + '.0.0 <' + (+A + 1) + '.0.0'))
                                                    : i
                                                    ? (r('replaceTilde pr', i),
                                                        (s =
                                                            '>=' + A + '.0.0 <' + (+A + 1) + '.0.0'))
                                                            : i
                                                            ? (r('replaceTilde pr', i),
                                                                (s =
                                                                    '>=' + A + '.0.0 <' + (+A + 1) + '.0.0'))
                                                                    : i
                                                                    ? (r('replaceTilde pr', i),
                                                                        (s =
                                                                            '>=' + A + '.0.0 <' + (+A + 1) + '.0.0'))
                                                                            : i
                                                                            ? (r('replaceTilde pr', i),
                                                                                (s =
                                                                                    '>=' + A + '.0.0 <' + (+A + 1) + '.0.0'))
                                                                                    : i
                                                                                    ? (r('replaceTilde pr', i),
                                                                                        (s =
                                                                                            '>=' + A + '.0.0 <' + (+A + 1) + '.0.0'))
                                                                                            : i
                                                                                            ? (r('replaceTilde pr', i),
                                                                                                (s =
                                                                                                    '>=' + A + '.0.0 <' + (+A + 1) + '.0.0'))
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                                                                                                    ? (r('replaceTilde pr', i),
                                                                                                        (s =
                                                                                                            '>=' + A + '.0.0 <' + (+A + 1) + '.0.0'))
                                                                                                            : i
                                                                                                            ? (r('replaceTilde pr', i),
                                                                                                                (s =
                                                                                                                    '>=' + A + '.0.0 <' + (+A + 1) + '.0.0'))
                                                                                                                    : i
                                                                                                                    ? (r('replaceTilde pr', i),
                                                                                                                        (s =
                                                                                                                            '>=' + A + '.0.0 <' + (+A + 1) + '.0.0'))
                                                                                                                            : i
                                                            })
                                                            ).join(' ')}
})(e, t)).
\texttt{(s =
\texttt{>'=' +
A +
'. ' +
n +
'. ' +
o +
' <' +
A +
'. ' +
(+n + 1) +
'.0'),
\texttt{r('tilde return', s),
s}
\texttt{)}
\texttt{)}}(e, t)
\texttt{)}(e, t))
\texttt{join(' ')}
\texttt{)}(e, t),
\texttt{r('tildes', e),
(e = (function (e, t) {
return (}
\texttt{r('replaceXRanges', e, t),
e
.split(/s+/)
.map(function (e) {
return (function (e, t) {
\texttt{e = e.trim()}
\texttt{var A = t.loose ? n[i.XRANGELOOSE] : n[i.XRANGE]}
\texttt{return e.replace(}
\texttt{A,}
\texttt{function (A, n, o, i, s, a) {
\texttt{r('xRange', e, A, n, o, i, s, a) }
\texttt{var c = b(o),
g = c || b(i),
l = g || b(s),
u = l
return (}
\texttt{='===' n && u && (n = ')
(a = t.includePrerelease ? '-0' : ')
\texttt{c}
\texttt{?(A =}
\texttt{>'===' n || '<' === n}
\texttt{?'<0.0.0-0'
\texttt{:'*'}}
\texttt{: n && u}
? (g && (i = 0),
(s = 0),
'>' === n
? ((n = '>='),
g
? ((o = +o + 1),
(i = 0),
(s = 0))
: ((i = +i + 1), (s = 0)))
: '<=' === n &&
((n = '<'),
g ? (o = +o + 1) : (i = +i + 1)),
(A = n + o + '.' + i + '.' + s + a))
: g
? (A =
'>=' +
o +
'.0.0' +
a +
'<' +
(+o + 1) +
'.0.0' +
a)
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i +
'.0' +
a +
'<' +
o +
'.' +
(+i + 1) +
'.0' +
a),
r('xRange return', A),
A)
)
),
)
)))(e, t)
})
.join('·')
)
)))(e, t)),
r('xrange', e),
Open Source Used In Cisco Cloud Mailbox Defense -CMD (Project Raptor) April 2021

```
    .trim()
    .split('')

  )

  (Q.prototype.test = function (e) {
    if (!e) return !1
    if ('string' == typeof e)
      try {
        e = new l(e, this.options)
      } catch (e) {
        return !1
      }
    for (var t = 0; t < this.set.length; t++)
      if (S(this.set[t], e, this.options)) return !0
    return !1
  }),
  (t.satisfies = k),
  (t.maxSatisfying = function (e, t, r) {
    var A = null,
        n = null
    try {
      var o = new Q(t, r)
    } catch (e) {
      return null
    }
    return (e.forEach(function (e) {
      o.test(e) &&
      ((A && -1 !== n.compare(e)) || (n = new l((A = e), r)))
    }),
    A
    ),
    (t.minSatisfying = function (e, t, r) {
      var A = null,
          n = null
      try {
        var o = new Q(t, r)
      } catch (e) {
        return null
      }
      return (e.forEach(function (e) {
        o.test(e) &&
        ((A && 1 !== n.compare(e)) || (n = new l((A = e), r)))
      }),
      A
    )
```
(t.minVersion = function (e, t) {
  e = new Q(e, t)
  var r = new l('0.0.0')
  if (e.test(r)) return r
  if (((r = new l('0.0.0-0')), e.test(r))) return r
  r = null
  for (var A = 0; A < e.set.length; ++A) {
    e.set[A].forEach(function (e) {
      var t = new l(e.semver.version)
      switch (e.operator) {
        case '>':
          0 === t.prerelease.length
            ? t.patch++
            : t.prerelease.push(0),
          (t.raw = t.format())
        case '<':
          case '<=':
            break
        case '>=':
          ;(r && !d(r, t)) || (r = t)
          break
        default:
          throw new Error('Unexpected operation: ' + e.operator)
      }
    })
  }
  if (r && e.test(r)) return r
  return null
}),
(t.validRange = function (e, t) {
  try {
    return new Q(e, t).range || '*'
  } catch (e) {
    return null
  }
}),
(t.ltr = function (e, t, r) {
  return N(e, t, '<', r)
}),
(t.gtr = function (e, t, r) {
  return N(e, t, '>', r)
}),
(t.outside = N),
(t.prerelease = function (e, t) {
  var r = g(e, t)
  return r && r.prerelease.length ? r.prerelease : null
t.intersects = function (e, t, r) {
    return (e = new Q(e, r)), (t = new Q(t, r)), e.intersects(t)
}),

(t.coerce = function (e, t) {
    if (e instanceof l) return e
    'number' == typeof e && (e = String(e))
    if ('string' !== typeof e) return null
    var r = null
    if ((t = t || {}).rtl) {
        for (var A;
            (A = n[i.COERCERTL].exec(e)) &&
            (!r || r.index + r[0].length !== e.length);
        )
            (r && A.index + A[0].length === r.index + r[0].length) ||
            (n[i.COERCERTL].lastIndex =
    } else r = e.match(n[i.COERCET])
    if (null === r) return null
}),

29069: (e, t, r) => {
    const A = Symbol('SemVer ANY')
    class n {
        static get ANY() {
            return A
        }
        constructor(e, t) {
            if (t & object' == typeof t) ||
                (t = { loose: !!t, includePrerelease: !1 }),
                e instanceof n)
        ) {
            if (e.loose === !!t.loose) return e
            e = e.value
        }
        a('comparator', e, t),
            (this.options = t),
            (this.loose = !!t.loose),
            this.parse(e),
            this.semver == A
        ? (this.value = '')
        : (this.value = this.operator + this.semver.version),
    },
a('comp', this)
}
parse(e) {
    const t = this.options.loose
    ? o[i.COMPARATORLOOSE]
    : o[i.COMPARATOR],
    r = e.match(t)
if (!r) throw new TypeError('Invalid comparator: ' + e)
    '=' === this.operator && (this.operator = "),
    r[2]
? (this.semver = new c(r[2], this.options.loose))
: (this.semver = A)
}
toString() {
    return this.value
}

test(e) {
    if (a('Comparator.test', e, this.options.loose),
        this.semver === A || e === A)
    )
    return !0
if ('string' === typeof e)
try {
    e = new c(e, this.options)
} catch (e) {
    return !1
}
return s(e, this.operator, this.semver, this.options)
}

intersects(e, t) {
if (!e instanceof n))
    throw new TypeError('a Comparator is required')
if (t &
    (t &
        'object' === typeof t) ||
    (t = { loose: !t, includePrerelease: !1 })),
    " === this.operator)
)
    return " === this.value || new g(e.value, t).test(this.value)
if (" === e.operator)
    return " === e.value || new g(this.value, t).test(e.semver)
const r = !(r
    ("=" !== this.operator &
        '>=' !== this.operator) ||
    ("=" !== e.operator &
        '>=' !== e.operator)
),
A = !(r
    ("<=" !== this.operator &
        '<' !== this.operator) ||

('<=') !== e.operator && '<' !== e.operator)
),
o = this.semver.version === e.semver.version,
i = !(
  ('>=' !== this.operator && '<=' !== this.operator) ||
  ('>=' !== e.operator && '<=' !== e.operator)
),
a =
s(this.semver, '<', e.semver, t) &&
  ('>=' !== this.operator || '>' === this.operator) &&
  ('<=' === e.operator || '<' === e.operator),
c =
s(this.semver, '>', e.semver, t) &&
  ('<=' === this.operator || '<' === this.operator) &&
  ('>=' === e.operator || '>' === e.operator)
return r || A || (o && i) || a || c
}
)
exports = n
const { re: o, t: i } = r(49439),
s = r(38754),
a = r(6029),
c = r(14772),
g = r(73004)
},
73004: (e, t, r) => {
    class A {
        constructor(e, t) {
            if (
                (t && 'object' == typeof t) ||
                (t = { loose: !!t, includePrerelease: !!1 })),
                e instanceof A)
            )
            return e.loose !== !!t.loose &&
                e.includePrerelease !== !!t.includePrerelease
              ? e
              : new A(e.raw, t)
        if (e instanceof n)
            return (this.raw = e.value), (this.set = [[e]]), this.format(), this
        if (
            (this.options = t),
            this.loose = !!t.loose),
            this.includePrerelease = !!t.includePrerelease),
            this.raw = e),
            this.set = e
        .split(/
          .join('/'))
        )
.map((e) => this.parseRange(e.trim()))
.filter((e) => e.length),
!this.set.length)
)
throw new TypeError('Invalid SemVer Range: ' + e)
this.format()
}
format() {
return (this.range = this.set
.map((e) => e.join(' ').trim())
.join('||').trim(),
this.range)
}
)
toString() {
return this.range
}
parseRange(e) {
const t = this.options.loose
e = e.trim()
const r = t ? s[a.HYPHENRANGELOOSE] : s[a.HYPHENRANGE]
:e = e.replace(r, w(this.options.includePrerelease)),
o('hyphen replace', e),
(e = e.replace(s[a.COMPARATORTRIM], c)),
o('comparator trim', e, s[a.COMPARATORTRIM]),
(e = (e = (e = e.replace(s[a.TILDETRIM], g)).replace(  
s[a.CARETTRIM],  
1,
)))
.split(/s+/)
.join('')
const A = t ? s[a.COMPARATORLOOSE] : s[a.COMPARATOR]
return e
.split('')
.map((e) => h(e, this.options))
.join('')
.split(/s+/)
.map((e) => m(e, this.options))
.filter(this.options.loose ? (e) => !e.match(A) : () => !0)
.map((e) => new n(e, this.options))
}
intersects(e, t) {
if (!(e instanceof A)) throw new TypeError('a Range is required')
return this.set.some(  
(r) =>
  u(r, t) &&
e.set.some(
  (e) =>
    u(e, t) &&
    r.every((r) => e.every((e) => r.intersects(e, t)),
  ),
)
}
test(e) {
  if (!e) return !1
  if ('string' == typeof e)
    try {
      e = new i(e, this.options)
    } catch (e) {
      return !1
    }
  for (let t = 0; t < this.set.length; t++)
    if (Q(this.set[t], e, this.options)) return !0
  return !1
}
e.exports = A
const n = r(29069),
o = r(6029),
i = r(14772),
{
  re: s,
t: a,
  comparatorTrimReplace: c,
  tildeTrimReplace: g,
  caretTrimReplace: l,
} = r(49439),
u = (e, t) => {
  let r = !0
  const A = e.slice()
  let n = A.pop()
  for (; r && A.length; )
    (r = A.every((e) => n.intersects(e, t))), (n = A.pop())
  return r
},
h = (e, t) => (  
o('comp', e, t),
  (e = f(e, t)),
  o('caret', e),
  (e = d(e, t)),
  o('tildes', e),
  (e = E(e, t)),
  o('xrange', e),
  (e = y(e, t)),
  o('xrange', e),
)
p = (e) => e || 'x' == e.toLowerCase() && '*' == e,
d = (e, t) =>
e
.trim()
.split(/s+/)
.map((e) => C(e, t))
.join(''),
C = (e, t) =>
const r = t.loose ? s[a.TILDELOOSE] : s[a.TILDE]
return e.replace(r, (t, r, A, n, i) => {
let s
return (o('tilde', e, t, r, A, n, i),
p(r)
? (s = '')
: p(A)
? (s = '>=r.0.0 <r+1.0.0-0')
: p(n)
? (s = '>=r.$[A].0 <r.$[A+1].0.0-0')
: i
? (o('replaceTilde pr', i),
(s = '>=r.$[A].$[n]-$[i] <r.$[A+1].0.0-0'))
: (s = '>=r.$[A].$[n] <r.$[A+1].0.0-0'),
o('tilde return', s),
s)
})
),
f = (e, t) =>
e
.trim()
.split(/s+/)
.map((e) => I(e, t))
.join(''),
I = (e, t) =>
o('caret', e, t)
const r = t.loose ? s[a.CARETLOOSE] : s[a.CARET],
A = t.includePrerelease ? '-0' : ''
return e.replace(r, (t, r, A, n, i) => {
let a
return (o('caret', e, t, r, A, n, i),
p(r)
? (a = '')
: p(n)
? (a = '>'=${r}.0.0$A \leq{+r + 1}.0.0-0')
  : p(i)
? (a =
  '0' === r
  ? >=${r}.0$n.0$A \leq{r}.0$[+n + 1].0-0'
  : >=${r}.0$N.$A <${+r + 1}.0.0-0')
  : s
? (o('replaceCaret pr', s),
  (a =
    '0' === r
    ? '0' === n
    ? >=${r}.0$N.$A \leq{r}.0$[+n + 1].0-0'
    : >=${r}.0$N.$A <${+r + 1}.0.0-0')
    : s
    : o('no pr'),
    (a =
      '0' === r
      ? '0' === n
      ? >=${r}.0$N.$A \leq{r}.0$[+n + 1].0-0'
      : >=${r}.0$N.$A <${+r + 1}.0.0-0')
      : o('caret return', a),
      a)
  )
})
},
E = (e, t) => (o('replaceXRanges', e, t),
  e
  .split(/s+/)
  .map((e) => B(e, t))
  .join('')
),
B = (e, t) => {
  e = e.trim()
  const r = t.loose ? s[a.XRANGELOOSE] : s[a.XRANGE]
  return e.replace(r, (r, A, n, i, s, a) => {
    o('xRange', e, r, A, n, i, s, a)
    const c = p(n),
    g = c || p(i),
    l = g || p(s),
    u = l
    return (}
    '\=' === A && u && (A = ''),
    (a = t.includePrerelease ? '\-0' : ''),
    c
    ? (r = '\' === A || '<' === A ? '<0.0.0-0' : '*'))
    : A && u
if (t.prerelease.length && !r.includePrerelease) {
    for (let r = 0; r < e.length; r++)
        if (
            (o(e[r].semver),
            e[r].semver !== n.ANY && e[r].semver.prerelease.length > 0)
        ) {
            const A = e[r].semver
            if (
                A.major === t.major &&
                A.minor === t.minor &&
                A.patch === t.patch
            )
                return !0
        }
    return !1
} else if (\'string\' !== typeof e)
    throw new TypeError(\'Invalid Version: \'+ e)

const A = r(6029),
{ MAX_LENGTH: n, MAX_SAFE_INTEGER: o } = r(76483),
{ re: i, t: s } = r(49439),
{ compareIdentifiers: a } = r(99297)
class c {
    constructor(e, t) {
        if (
            (t && \'object\' === typeof t) ||
            (t = { loose: !!t, includePrerelease: !1 },
            e instanceof c)
        ) {
            if (e.loose === !!t.loose &&
                e.includePrerelease === !!t.includePrerelease
            )
                return e
        e = e.version
        if (e.length > n)
            throw new TypeError(\`version is longer than \${n} characters\`)
        A(\'SemVer\', e, t),
        (this.options = t),
        (this.loose = !!t.loose),
        (this.includePrerelease = !!t.includePrerelease)
        const r = e.trim().match(t.loose ? i[s.LOOSE] : i[s.FULL])
        if (!r) throw new TypeError(\`Invalid Version: \'+ e)
        if (
((this.raw = e),
(this.major = +r[1]),
(this.minor = +r[2]),
(this.patch = +r[3]),
this.major > o || this.major < 0)
)
throw new TypeError('Invalid major version')
if (this.minor > o || this.minor < 0)
throw new TypeError('Invalid minor version')
if (this.patch > o || this.patch < 0)
throw new TypeError('Invalid patch version')
r[4]
? (this.prerelease = r[4].split('.').map((e) => {
    if (/^[0-9]+$/.test(e)) {
        const t = +e
        if (t >= 0 && t < o) return t
    }
    return e
})
: (this.prerelease = []),
(this.build = r[5] ? r[5].split('.') : []),
this.format()
}
format() {
return (
(this.version = `${this.major}.${this.minor}.${this.patch}`),
this.prerelease.length &&
(this.version += '-' + this.prerelease.join('.')),
this.version
)
}
toString() {
return this.version
}
compare(e) {
if (A('SemVer.compare', this.version, this.options, e),
!(e instanceof c))
) {
if ('string' === typeof e & e === this.version) return 0
    e = new c(e, this.options)
}
return e.version === this.version
? 0
: this.compareMain(e) || this.comparePre(e)
}
compareMain(e) {
return (
e instanceof c || (e = new c(e, this.options)),
  a(this.major, e.major) ||
  a(this.minor, e.minor) ||
  a(this.patch, e.patch)
  )
}
}

comparePre(e) {
  if (  
    (e instanceof c || (e = new c(e, this.options)),
     this.prerelease.length && !e.prerelease.length)  
  )
    return -1
  if (!this.prerelease.length && e.prerelease.length) return 1
  if (!this.prerelease.length && !e.prerelease.length) return 0
  let t = 0
  do {
    const r = this.prerelease[t],
    n = e.prerelease[t]
    if (  
      (A('prerelease compare', t, r, n), void 0 === r && void 0 === n)  
    )
      return 0
    if (void 0 === n) return 1
    if (void 0 === r) return -1
    if (r !== n) return a(r, n)
  } while (++t)
}

compareBuild(e) {
  e instanceof c || (e = new c(e, this.options))
  let t = 0
  do {
    const r = this.build[t],
    n = e.build[t]
    if (  
      (A('prerelease compare', t, r, n), void 0 === r && void 0 === n)  
    )
      return 0
    if (void 0 === n) return 1
    if (void 0 === r) return -1
    if (r !== n) return a(r, n)
  } while (++t)
}

inc(e, t) {
  switch (e) {
    case 'premajor':
      ;(this.prerelease.length = 0),
      (this.patch = 0),
      (this.minor = 0),

this.major++,
this.inc('pre', t)
break
case 'preminor':
   :(this.prerelease.length = 0),
      (this.patch = 0),
      this.minor++,
      this.inc('pre', t)
   break
case 'prepatch':
   :(this.prerelease.length = 0),
      this.inc('patch', t),
      this.inc('pre', t)
   break
case 'prerelease':
   0 === this.prerelease.length && this.inc('patch', t),
      this.inc('pre', t)
   break
case 'major':
   :(0 === this.minor &&
      0 === this.patch &&
      0 !== this.prerelease.length) ||
      this.major++,
      (this.minor = 0),
      (this.patch = 0),
      (this.prerelease = [])
   break
case 'minor':
   :(0 === this.patch && 0 !== this.prerelease.length) ||
      this.minor++,
      (this.patch = 0),
      (this.prerelease = [])
   break
case 'patch':
   0 === this.prerelease.length && this.patch++,
      (this.prerelease = [])
   break
case 'pre':
   if (0 === this.prerelease.length) this.prerelease = [0]
   else {
      let e = this.prerelease.length
      for (; --e >= 0; )
         'number' == typeof this.prerelease[e] &&
            (this.prerelease[e]++, (e = -2))
      -1 === e && this.prerelease.push(0)
   }
   t &&
      (this.prerelease[0] === t}
? isNaN(this.prerelease[1]) & (this.prerelease = [t, 0])
: (this.prerelease = [t, 0])

break
default:
    throw new Error('invalid increment argument: ' + e)
}
return this.format(), (this.raw = this.version), this
}
e.exports = c
},
31192: (e, t, r) => {
    const A = r(21883)
e.exports = (e, t) => {
    const r = A(e.trim().replace(/[^=]+/), t)
    return r ? r.version : null
}
},
38754: (e, t, r) => {
    const A = r(78760),
        n = r(83286),
        o = r(26544),
        i = r(44984),
        s = r(65069),
        a = r(93845)
e.exports = (e, t, r, c) => {
        switch (t) {
            case '===':
                return (
                    'object' == typeof e & & (e = e.version),
                    'object' == typeof r & & (r = r.version),
                    e === r
                )
            case '!==':
                return (
                    'object' == typeof e & & (e = e.version),
                    'object' == typeof r & & (r = r.version),
                    e !== r
                )
            case '===':
                return (e, t, r, c)
            case '==':
                return A(e, r, c)
            case '!=':
                return n(e, r, c)
            case '>':
                return o(e, r, c)
            case '>=':
                return p(e, r, c)
            case '<':
                return q(e, r, c)
            case '<=':
                return a(e, r, c)
        }
    }
}
```javascript
return i(e, r, c)
case '<':
    return s(e, r, c)
case '<=':
    return a(e, r, c)
default:
    throw new TypeError('Invalid operator: ' + t)
}
}
,
38113: (e, t, r) => {
    const A = r(14772),
    n = r(21883),
    { re: o, t: i } = r(49439)
e.exports = (e, t) => {
    if (e instanceof A) return e
    if (('number' == typeof e && (e = String(e)), 'string' != typeof e))
        return null
    let r = null
    if ((t = t || {}).rtl) {
        let t
        for (;
            (t = o[i.COERCERTL].exec(e)) &&
            (!r || r.index + r[0].length !== e.length);
            (r && t.index + t[0].length === r.index + r[0].length) || (r = t),
            o[i.COERCERTL].lastIndex = t.index + t[1].length + t[2].length)
            o[i.COERCERTL].lastIndex = -1
        } else r = e.match(o[i.COERCE])
    return null === r
        ? null
        : n(`${r[2]}.${r[3] || '0'}.${r[4] || '0'}`, t)
    }
},
63353: (e, t, r) => {
    const A = r(14772)
e.exports = (e, t, r) => {
        const n = new A(e, r),
        o = new A(t, r)
        return n.compare(o) || n.compareBuild(o)
    }
},
58566: (e, t, r) => {
    const A = r(17340)
e.exports = (e, t) => A(e, t, !0)
},
```
17340: (e, t, r) => {
  const A = r(14772)
  e.exports = (e, t, r) => new A(e, r).compare(new A(t, r))
},
29301: (e, t, r) => {
  const A = r(21883),
  n = r(78760)
  e.exports = (e, t) => {
    if (n(e, t)) return null
    
    const r = A(e),
    n = A(t),
    o = r.prerelease.length || n.prerelease.length,
    i = o ? 'pre' : '',
    s = o ? 'prerelease' : ''
    for (const e in r)
    if (  
      ('major' === e || 'minor' === e || 'patch' === e ) &&&
      r[e] !== n[e]
    )
      return i + e
    return s
  }
},
78760: (e, t, r) => {
  const A = r(17340)
  e.exports = (e, t, r) => 0 === A(e, t, r)
},
26544: (e, t, r) => {
  const A = r(17340)
  e.exports = (e, t, r) => A(e, t, r) > 0
},
44984: (e, t, r) => {
  const A = r(17340)
  e.exports = (e, t, r) => A(e, t, r) >= 0
},
24063: (e, t, r) => {
  const A = r(14772)
  e.exports = (e, t, r, n) => {
    'string' == typeof r && ((n = r), (r = void 0))
    try {
      return new A(e, r).inc(t, n).version
    }
    catch (e) {
      return null
    }
  }
};
65069: (e, t, r) => {
    const A = r(17340)
    e.exports = (e, t, r) => A(e, t, r) < 0
},
93845: (e, t, r) => {
    const A = r(17340)
    e.exports = (e, t, r) => A(e, t, r) <= 0
},
75157: (e, t, r) => {
    const A = r(14772)
    e.exports = (e, t) => new A(e, t).major
},
5195: (e, t, r) => {
    const A = r(14772)
    e.exports = (e, t) => new A(e, t).minor
},
83286: (e, t, r) => {
    const A = r(17340)
    e.exports = (e, t, r) => 0 !== A(e, t, r)
},
21883: (e, t, r) => {
    const { MAX_LENGTH: A } = r(76483),
        { re: n, t: o } = r(49439),
        i = r(14772)
    e.exports = (e, t) => {
        if ((t && 'object' == typeof t) ||
            (t = { loose: !!t, includePrerelease: !1 }),
            e instanceof i)
            return e
        if ('string' != typeof e) return null
        if (e.length > A) return null
        if (!t.loose ? n[o.LOOSE] : n[o.FULL]).test(e)) return null
        try {
            return new i(e, t)
        } catch (e) {
            return null
        }
    },
39592: (e, t, r) => {
    const A = r(14772)
    e.exports = (e, t) => new A(e, t).patch
},
27050: (e, t, r) => {
    const A = r(21883)
    e.exports = (e, t) => {
const r = A(e, t)
return r && r.prerelease.length ? r.prerelease : null
}
},
93788: (e, t, r) => {
    const A = r(17340)
e.exports = (e, t, r) => A(t, e, r)
},
15213: (e, t, r) => {
    const A = r(63353)
e.exports = (e, t) => e.sort((e, r) => A(r, e, t))
},
73011: (e, t, r) => {
    const A = r(73004)
e.exports = (e, t, r) => {
        try {
            t = new A(t, r)
        } catch (e) {
            return !1
        }
        return t.test(e)
    }
},
71102: (e, t, r) => {
    const A = r(63353)
e.exports = (e, t) => e.sort((e, r) => A(e, r, t))
},
99589: (e, t, r) => {
    const A = r(21883)
e.exports = (e, t) => {
        const r = A(e, t)
        return r ? r.version : null
    }
},
53887: (e, t, r) => {
    const A = r(49439)
e.exports = {
        re: A.re,
src: A.src,
tokens: A.t,
SEMVER_SPEC_VERSION: r(76483).SEMVER_SPEC_VERSION,
SemVer: r(14772),
compareIdentifiers: r(99297).compareIdentifiers,
rcompareIdentifiers: r(99297).rcompareIdentifiers,
parse: r(21883),
valid: r(99589),
clean: r(31192),
inc: r(24063),
diff: r(29301),
major: r(75157),
minor: r(5195),
patch: r(39592),
prerelease: r(27050),
compare: r(17340),
rcmpare: r(93788),
compareLoose: r(58566),
compareBuild: r(63353),
sort: r(71102),
rsort: r(15213),
gt: r(26544),
l: r(65069),
eq: r(78760),
neq: r(83286),
gte: r(44984),
lte: r(93845),
cmp: r(38754),
coerce: r(38113),
Comparator: r(29069),
Range: r(73004),
satisfies: r(73011),
toComparators: r(47753),
maxSatisfying: r(1895),
minSatisfying: r(33252),
minVersion: r(4224),
validRange: r(44315),
outside: r(842),
gtr: r(69258),
ltr: r(36928),
simplifyRange: r(87395),
subset: r(74264),

76483: (e) => {
  const t = Number.MAX_SAFE_INTEGER || 9007199254740991
  e.exports = {
    SEMVER_SPEC_VERSION: '2.0.0',
    MAX_LENGTH: 256,
    MAX_SAFE_INTEGER: t,
    MAX_SAFE_COMPONENT_LENGTH: 16,
  }
}
6029: (e) => {
  const t =
  'object' == typeof process &&
  process.env &&
process.env.NODE_DEBUG &&
/\bsemver\b/i.test(process.env.NODE_DEBUG)
? (...e) => console.error('SEMVER', ...e)
: () => {}
e.exports = t
},
99297: (e) => {
  const t = /^\[0-9]+$/,
  r = (e, r) => {
    const A = t.test(e),
    n = t.test(r)
    return (e && n && ((e = +e), (r = +r)),
    )
  }
e.exports = {
    compareIdentifiers: r,
    rcompareIdentifiers: (e, t) => r(t, e),
  },
},
49439: (e, t, r) => {
  const { MAX_SAFE_COMPONENT_LENGTH: A } = r(76483),
  n = r(6029),
  o = ((t = e.exports = {}).re = []),
  i = (t.src = []),
  s = (t.t = {})
  let a = 0
  const c = (e, t, r) => {
    const A = a++
    n(A, t),
    (s[e] = A),
    (i[A] = t),
    (o[A] = new RegExp(t, r ? 'g' : void 0))
  }
c('NUMERICIDENTIFIER', '0|[1-9]\d*'),
c('NUMERICIDENTIFIERLOOSE', '[0-9]+'),
c('NONNUMERICIDENTIFIER', '\d*[a-zA-Z-][a-zA-Z0-9-]*'),
c('MAINVERSION', `(${i[s.NUMERICIDENTIFIER]})\.(${i[s.NUMERICIDENTIFIER]})\.(${i[s.NUMERICIDENTIFIER]})`),
c('MAINVERSIONLOOSE', `\d*[a-zA-Z-][a-zA-Z0-9-]*`),
};
69258: (e, t, r) => {
  const A = r(842)
  e.exports = (e, t, r) => A(e, t, '>', r)
},
87395: (e, t, r) => {
  const A = r(73004)
  e.exports = (e, t, r) => {
    (e = new A(e, r)), (t = new A(t, r)), e.intersects(t)
  },
},
36928: (e, t, r) => {
  const A = r(842)
  e.exports = (e, t, r) => A(e, t, '<', r)
},
1895: (e, t, r) => {
  const A = r(14772),
  n = r(73004)
  e.exports = (e, t, r) => {
    let o = null,
    i = null,
    s = null
    try {
      s = new n(t, r)
    } catch (e) {
      return null
    }
    return (e.forEach((e) => {
      s.test(e) &&
      ((o && -1 !== i.compare(e)) || ((o = e), (i = new A(o, r))))
    }),
    o
  )
},
33252: (e, t, r) => {
  const A = r(14772),
  n = r(73004)
  e.exports = (e, t, r) => {
    let o = null,
    i = null,
    s = null
    try {
      s = new n(t, r)
    } catch (e) {
      return null
    }
  },

return (  
e.forEach((e) => {  
s.test(e) &&  
  ((o && 1 !== i.compare(e)) || ((o = e), (i = new A(o, r))))  
}),  
o  
  
},  
4224: (e, t, r) => {  
  const A = r(14772),  
  n = r(73004),  
  o = r(26544)  
e.exports = (e, t) => {  
  e = new n(e, t)  
  let r = new A('0.0.0')  
  if (e.test(r)) return r  
  if (((r = new A('0.0.0-0')), e.test(r))) return r  
  r = null  
  for (let t = 0; t < e.set.length; ++t) {  
    e.set[t].forEach((e) => {  
      const t = new A(e.semver.version)  
      switch (e.operator) {  
        case '>':  
          0 === t.prerelease.length ? t.patch++ : t.prerelease.push(0),  
          (t.raw = t.format())  
        case ':':  
        case '>=':  
          (r && !o(r, t)) || (r = t)  
          break  
        case '<':  
        case '<=':  
          break  
        default:  
          throw new Error('Unexpected operation: ' + e.operator)  
        }  
      })  
    }  
  }  
  return r && e.test(r) ? r : null  
},  
842: (e, t, r) => {  
  const A = r(14772),  
  n = r(29069),  
  { ANY: o } = n,  
  i = r(73004),  
  s = r(73011),  
  a = r(26544),
c = r(65069),
g = r(93845),
l = r(44984)
e.exports = (e, t, r, u) => {
    let h, p, d, C, f
    switch (((e = new A(e, u)), (t = new i(t, u)), r)) {
        case '>':
            ;(h = a), (p = g), (d = c), (C = '>'), (f = '>=')
            break
        case '<':
            ;(h = c), (p = l), (d = a), (C = '<'), (f = '<=')
            break
        default:
            throw new TypeError('Must provide a hilo val of "<" or ">"')
    }
    if (s(e, t, u)) return !1
    for (let r = 0; r < t.set.length; ++r) {
        const A = t.set[r]
        let i = null,
            s = null
        if (A.forEach((e) => {
            e.semver === o && (e = new n('>=0.0.0')),
            (i = i || e),
            (s = s || e),
            h(e.semver, i.semver, u)
            ? (i = e)
            : d(e.semver, s.semver, u) && (s = e)
        }),
            i.operator === C || i.operator === f)
        )
        return !1
    if (!s/operator === C && p(e, s.semver)) return !1
    if (s/operator === f && d(e, s.semver)) return !1
    return !0
    }
}
? ((s = e), i || (i = e))
  : (s &o.push([i, s]), (s = null), (i = null))
}
i &o.push([i, null])
const c = []
for (const [e, t] of o)
e === t
  ? c.push(e)
  : t || e !== a[0]
  ? t
  ? e === a[0]
    ? c.push('<=' + t)
    : c.push(String(t))
    : c.push('<=' + e)
    : c.push('*')
  const g = c.join(' || '),
l = 'string' == typeof t.raw ? t.raw : String(t)
return g.length < l.length ? g : t
}
}
74264: (e, t, r) => {
  const A = r(73004),
  { ANY: n } = r(29069),
o = r(73011),
i = r(17340),
s = (e, t, r) => {
    if (1 === e.length && e[0].semver === n)
      return 1 === t.length && t[0].semver === n
    const A = new Set()
    let s, g, l, u, h, p, d
    for (const t of e)
      '>=' === t.operator || '>=' === t.operator
        ? (s = a(s, t, r))
        : '<' === t.operator || '<=' === t.operator
          ? (g = c(g, t, r))
          : A.add(t.semver)
    if (A.size > 1) return null
    if (s && g)
      if ((l = i(s.semver, g.semver, r), l > 0)) return null
    if (0 === l && ('=' !== s.operator || '<' !== g.operator))
      return null
  }
for (const t of e)
  '?=' === t.operator || '?=' === t.operator
    ? (s = a(s, t, r))
    : '?=' === t.operator || '?=' === t.operator
      ? (g = c(g, t, r))
      : A.add(t.semver)
if (A.size > 1) return null
if (s && g)
  if ((l = i(s.semver, g.semver, r), l > 0)) return null
  if (0 === l && ('=' !== s.operator || '<' !== g.operator))
    return null
}
for (const e of A) {
  if (s && !o(e, String(s), r)) return null
  if (g && !o(e, String(g), r)) return null
  for (const A of t) if (!o(e, String(A), r)) return !1
    return !0
}

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for (const e of t) {
    if (d === d || e.operator === '===' || e.operator === '!==',
        p === p || e.operator === '===' || e.operator === '!==',
        s)
    )
        if (e.operator === '===' || e.operator === '!==') {
            if (((u = a(s, e, r)), u === e)) return !1
        } else if (e.operator === '===' || e.operator === '!==')
            return !1
    if (g)
        if (e.operator === '===' || e.operator === '!==') {
            if (((h = c(g, e, r)), h === e)) return !1
        } else if (g.operator || g.semver && !o(g.semver, String(e), r))
            return !1
    if (!e.operator && (g || s) && 0 !== l) return !1
    return !(s && p && !g && 0 !== l) && !(g && d && !s && 0 !== l)
},

a = (e, t, r) => {
    if (!e) return t
    const A = s(e, t, r)
    return A > 0
        ? e
        : A < 0 || e.operator === '===' || e.operator === '!=='
            ? t
            : e
},

c = (e, t, r) => {
    if (!e) return t
    const A = s(e, t, r)
    return A < 0
        ? e
        : A > 0 || e.operator === '===' || e.operator === '!=='
            ? t
            : e
}
e.exports = (e, t, r) => {
    if (!e) return t
    const A = s(e, t, r)
    return A > 0
        ? e
        : A < 0 || e.operator === '===' || e.operator === '!=='
            ? t
            : e
}

const A = r(76417),
    n = r(19184),
    o = r(92413).Transform,
i = ['sha256', 'sha384', 'sha512'],
s = /^([a-z0-9+/-]+(?:=|=?)$)/,
a = /(^[^-]+)-([^?]+)(?:\[\S*\])$/,
c = /(^[^-]+)-([A-Za-z0-9+/=]{44,88})(?:\[\x21-\x7E]*$)/,
g = /(^[\x21-\x7E]+)$/,
l = n(
    algorithms: { default: ['sha512'] },
    error: { default: !1 },
    integrity: {},
    options: { default: [] },
pickAlgorithm: { default: () => B },
    Promise: { default: () => Promise },
    sep: { default: '' },
single: { default: !1 },
    size: {},
    strict: { default: !1 },
})

class u {
    get isHash() {
        return !0
    }
    constructor(e, t) {
        const r = (!!t = l(t)).strict
        this.source = e.trim()
        const A = this.source.match(r ? c : a)
        if (!A) return
        if (r && !i.some((e) => e === A[1])) return
        this.algorithm = A[1],
        this.digest = A[2]
        const n = A[3]
        this.options = n ? n.slice(1).split('?', '[]') : []
    }
    hexDigest() {
        return (
            this.digest && Buffer.from(this.digest, 'base64').toString('hex')
        )
    }
    toJSON() {
        return this.toString()
    }
    toString(e) {
        if (e = l(e)).strict &
            !(i.some((e) => e === this.algorithm) &
            this.digest.match(s) &
            this.options.length &
            this.source) throw !1,
        return !1
    }
}

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class h {
    get isIntegrity() {
        return !0
    }
    toJSON() {
        return this.toString()
    }
    toString(e) {
        let t = (e = l(e)).sep || ' ';
        return (e.strict && (t = t.replace(/\S+/g, ' ')),
            Object.keys(this)
            .map(r =>
                this[r]
                .map(t => u.prototype.toString.call(t, e))
                .filter((e) => e.length)
                .join(t),
            )
            .filter((e) => e.length)
            .join(t)
        )
    }
    concat(e, t) {
        t = l(t)
        const r = 'string' == typeof e ? e : C(e, t)
        return p(`${this.toString(t)} ${r}`, t)
    }
    hexDigest() {
        return p(this, { single: !0 }).hexDigest()
    }
    match(e, t) {
        const r = p(e, (t = l(t)),
            A = r.pickAlgorithm(t)
        return (this[A] &&
            r[A] &&
            this[A].find((e) => r[A].find((t) => e.digest === t.digest))) ||
        )
    }
}
pickAlgorithm(e) {
    const t = (e = l(e)).pickAlgorithm,
    r = Object.keys(this)
    if (!r.length)
        throw new Error(
            'No algorithms available for ' +
            JSON.stringify(this.toString()),
        )
    return r.reduce((e, r) => t(e, r) || e)
}
}

function p(e, t) {
    if (((t = l(t)), 'string' !== typeof e)) return d(e, t)
    if (e.algorithm && e.digest) {
        const r = new h()
        return (r[e.algorithm] = [e]), d(C(r, t), t)
    }
    return d(C(e, t), t)
}

function d(e, t) {
    return t.single
        ? new u(e, t)
        : e
            .trim()
            .split(/s+/)
            .reduce((e, r) => {
                const A = new u(r, t)
                if (A.algorithm && A.digest) {
                    const t = A.algorithm
e[t] || (e[t] = []), e[t].push(A)
                }
                return e
            }, new h())
}

function C(e, t) {
    return (t = l(t)),
    e.algorithm && e.digest
        ? u.prototype.toString.call(e, t)
        : 'string' !== typeof e
            ? C(p(e, t), t)
            : h.prototype.toString.call(e, t)
}

function f(e) {
const t = (e = l(e)).integrity && p(e.integrity, e),
  r = t && Object.keys(t).length,
  n = r && t.pickAlgorithm(e),
  i = r && t[n],
  s = Array.from(new Set(e.algorithms.concat(n ? [n] : []))),
  a = s.map(A.createHash)
let c = 0
const g = new o(
  transform(e, t, r) {
    (c += e.length), a.forEach((r) => r.update(e, t)), r(null, e, t)
  },
).on('end', () => {
  const A =
    e.options && e.options.length ? '?' + e.options.join('') : '',
  o = p(
    a.map((e, t) => `${s[t]}-${e.digest('base64')}${A}`).join(''),
    e,
  ),
  l = r && o.match(t, e)
  if ('number' == typeof e.size && c !== e.size) {
    const r = new Error(`stream size mismatch when checking ${t}.n Wanted: ${e.size}n Found: ${c}`,
    )
    ;(r.code = 'EBADSIZE'),
    (r.found = c),
    (r.expected = e.size),
    (r.sri = t),
    g.emit('error', r)
  } else if (e.integrity && !l) {
    const e = new Error(`${t} integrity checksum failed when using ${n}: wanted ${i} but got ${o}. (${c} bytes)`,
    )
    ;(e.code = 'EINTEGRITY'),
    (e.found = o),
    (e.expected = i),
    (e.algorithm = n),
    (e.sri = t),
    g.emit('error', e)
  } else
    g.emit('size', c),
    g.emit('integrity', o),
    l && g.emit('verified', l)
})
return g
}
e.exports.Sd = function (e, t) {
  const r = (t = l(t)).algorithms,
    n = t.options && t.options.length ? '?' + t.options.join('') : "
"}
return r.reduce((r, o) => {
    const i = A.createHash(o).update(e).digest('base64'),
    s = new u(`${o}-${i}${n}`, t)
if (s.algorithm && s.digest) {
    const e = s.algorithm
    r[e] || (r[e] = []), r[e].push(s)
}
return r
}, new h()))
}

const I = new Set(A.getHashes()),
E = ['md5',
'whirlpool',
'sha1',
'sha224',
'sha256',
'sha384',
'sha512',
'sha3',
'sha3-256',
'sha3-384',
'sha3-512',
'sha3_256',
'sha3_384',
'sha3_512',
].filter((e) => I.has(e))

function B(e, t) {
    return E.indexOf(e.toLowerCase()) >= E.indexOf(t.toLowerCase())
      ? e
      : t
}

69538: (e, t, r) => {
'use strict'
var A = r(13499).Buffer,
    n = A.isEncoding ||
| function (e) |
switch ((e = " + e && e.toLowerCase()) {|
  case 'hex':
  case 'utf8':
  case 'utf-8':
  case 'ascii':
  case 'binary':
  case 'base64':
  case 'ucs2':
  case 'ucs-2':

case 'utf16le':
        case 'utf-16le':
        case 'raw':
            return 0
        default:
            return !1
    }
}

function o(e) {
    var t
    switch ( ((this.encoding = (function (e) {
        var t = (function (e) {
            if (!e) return 'utf8'
            for (var t; ; )
                switch (e) {
                case 'utf8':
                case 'utf-8':
                return 'utf8'
                case 'ucs2':
                case 'ucs-2':
                case 'utf16le':
                case 'utf-16le':
                return 'utf16le'
                case 'latin1':
                case 'binary':
                return 'latin1'
                case 'base64':
                case 'ascii':
                case 'hex':
                return e
                default:
                    if (t) return
                ;(e = ('' + e).toLowerCase()), (t = !0)
                }
            }) (e),
            this.encoding)
        ) (e),
        if ('string' !== typeof t & & (A.isEncoding === n || !n(e)))
            throw new Error('Unknown encoding: ' + e)
        return t || e
    )) (e),
    this.encoding) ) {
    case 'utf16le':
        ;(this.text = a), (this.end = c), (t = 4)
        break
    case 'utf8':
        ;(this.fillLast = s), (t = 4)
        break
case 'base64':
    ;(this.text = g), (this.end = l), (t = 3)
    break
default:
    return (this.write = u), void (this.end = h)
}
;(this.lastNeed = 0),
(this.lastTotal = 0),
(this.lastChar = A.allocUnsafe(t))
}
function i(e) {
    return e <= 127
    ? 0
    : e >> 5 == 6
    ? 2
    : e >> 4 == 14
    ? 3
    : e >> 3 == 30
    ? 4
    : e >> 6 == 2
    ? -1
    : -2
}
function s(e) {
    var t = this.lastTotal - this.lastNeed,
    r = (function (e, t, r) {
        if (128 != (192 & t[0])) return (e.lastNeed = 0), ''
        if (e.lastNeed > 1 && t.length > 1) {
            if (128 != (192 & t[1])) return (e.lastNeed = 1), ''
            if (e.lastNeed > 2 && t.length > 2 && 128 != (192 & t[2]))
                return (e.lastNeed = 2), ''
        }
    })(this, e)
    return void 0 !== r
    ? r
    : this.lastNeed <= e.length
    ? (e.copy(this.lastChar, t, 0, this.lastNeed),
        this.lastChar.toString(this.encoding, 0, this.lastTotal))
    : (e.copy(this.lastChar, t, 0, e.length),
        void (this.lastNeed -= e.length))
}
function a(e, t) {
    if ((e.length - t) % 2 == 0) {
        var r = e.toString('utf16le', t)
        if (r) {
            var A = r.charCodeAt(r.length - 1)
            if (A >= 55296 && A <= 56319)
                return (
function c(e) {
    var t = e && e.length ? this.write(e) : '',
    r = this.lastTotal - this.lastNeed
    return t + this.lastChar.toString('utf16le', 0, r)
}

function g(e, t) {
    var r = (e.length - t) % 3
    return 0 === r
        ? e.toString('base64', t)
        : ((this.lastNeed = 3 - r),
           this.lastTotal = 3,
           1 === r
               ? (this.lastChar[0] = e[e.length - 1])
               : ((this.lastChar[0] = e[e.length - 2]),
                   (this.lastChar[1] = e[e.length - 1]),
                   e.toString('base64', t, e.length - r))
}

function h(e) {
    return e && e.length ? this.write(e) : ''
}

function l(e) {
    var t = e && e.length ? this.write(e) : '',
    r = this.lastNeed
    return t + this.lastChar.toString('base64', 0, 3 - this.lastNeed)
}

function u(e) {
    return e.toString(this.encoding)
}

function h(e) {
    return e && e.length ? this.write(e) : ''
}
:(t.s = o),
(o.prototype.write = function (e) {
    if (0 === e.length) return "
    var t, r
    if (this.lastNeed) {
        if (void 0 === (t = this.fillLast(e))) return "
        ;(r = this.lastNeed), (this.lastNeed = 0)
    } else r = 0
    return r < e.length
        ? t
        ? t + this.text(e, r)
        : this.text(e, r)
        : t || "
}),
(o.prototype.end = function (e) {
    var t = e && e.length ? this.write(e) : "
    return this.lastNeed ? t + " : t
}),
(o.prototype.text = function (e, t) {
    var r = (function (e, t, r) {
        var A = t.length - 1
        if (A < r) return 0
        var n = i(t[A])
        if (n >= 0) return n > 0 && (e.lastNeed = n - 1), n
        if (--A < r || -2 === n) return 0
        if ((n = i(t[A])) >= 0)
            return n > 0 && (2 === n ? (n = 0) : (e.lastNeed = n - 3)), n
        return 0
    })(this, e, t)
    if (!this.lastNeed) return e.toString('utf8', t)
    this.lastTotal = r
    var A = e.length - (r - this.lastNeed)
    return e.copy(this.lastChar, 0, A), e.toString('utf8', t, A)
}),
(o.prototype.fillLast = function (e) {
    if (!this.lastNeed) return e.toString('utf8', t)
    this.lastTotal = r
    var A = e.length - (r - this.lastNeed)
    return e.copy(this.lastChar, 0, A), e.toString('utf8', t, A)
})
);(t.s = o),
(this.lastNeed -= e.length)
},
59428: (e, t, r) => {
  'use strict'
  const A = r(12087),
  n = r(33867),
  o = r(72918),
  { env: i } = process
  let s
  function a(e) {
    return (
      0 !== e && {
        level: e,
        hasBasic: !0,
        has256: e >= 2,
        has16m: e >= 3,
      }
    )
  }
  function c(e, t) {
    if (0 === s) return 0
    if (o('color=16m') || o('color=full') || o('color=truecolor'))
      return 3
    if (o('color=256')) return 2
    if (e && !t && void 0 === s) return 0
    const r = s || 0
    if ('dumb' === i.TERM) return r
    if ('win32' === process.platform) {
      const e = A.release().split('.
      return Number(e[0]) >= 10 && Number(e[2]) >= 10586
    ? Number(e[2]) >= 14931
    ? 3
    : 2
    : 1
    }
    if ('CI' in i)
      return ['TRAVIS', 'CIRCLECI', 'APPVEYOR', 'GITLAB_CI'].some(
        (e) => e in i,
      ) || 'codeship' === i.CI_NAME
      ? 1
      : r
    if ('TEAMCITY_VERSION' in i)
      return /^(9\.0*[1-9]\d*)\.\d{2}\.\d$/i.test(i.TEAMCITY_VERSION)
    ? 1
    : 0
    if ('GITHUB_ACTIONS' in i) return 1
    if ('truecolor' === i.COLORETERM) return 3
if ('TERM_PROGRAM' in i) {
    const e = parseInt((i.TERM_PROGRAM_VERSION || '').split('.')[0], 10)
    switch (i.TERM_PROGRAM) {
        case 'iTerm.app':
            return e >= 3 ? 3 : 2
        case 'Apple_Terminal':
            return 2
    }
}

return /^-256(color)?$/i.test(i.TERM)
    ? 2
    : /
        screen
        | xterm
        | vt100
        | vt220
        | rxvt[color|ansi|cygwin|linux/i.test(
            i.TERM,
        ) || 'COLORTERM' in i
        ? 1
        : r
    
    : o('no-color') || o('no-colors') || o('color=false') || o('color=never')
    ? (s = 0)
    : (o('color') ||
        o('colors') ||
        o('color=true') ||
        o('color=always')) &&
    (s = 1),

    'FORCE_COLOR' in i &&
    (s =
        'true' === i.FORCE_COLOR
        ? 1
        : 'false' === i.FORCE_COLOR
        ? 0
        : 0 === i.FORCE_COLOR.length
        ? 1
        : Math.min(parseInt(i.FORCE_COLOR, 10), 3)),

    (e.exports = {
        supportsColor: function (e) {
            return a(c(e, e && e.isTTY))
        },
        stdout: a(c(!0, n.isatty(1))),
        stderr: a(c(!0, n.isatty(2))),
    })
}

93255: (e) => {
    'use strict'
    function t(e) {
        return Array.prototype.slice.apply(e)
    }
    function r(e) {
        #this.status = 'pending',
    }
}

function A(e) {
    return e && 'function' == typeof e.then
}

function n(e) {
    return e
}

if (typeof C === 'function') {
    r.prototype = {
        then: function (e, t) {
            var n = r.unresolved()._setParent(this)
            if (this._isRejected()) {
                if (this._paused)
                    return (
                        this._continuations.push({
                            promise: n,
                            nextFn: e,
                            catchFn: t,
                        }),
                        n
                    )
                if (t)
                    try {
                        var o = t(this._error)
                        return A(o)
                    ? (this._chainPromiseData(o, n), n)
                    : r.resolve(o)._setParent(this)
                    } catch (e) {
                        return r.reject(e)._setParent(this)
                    }
                    return r.reject(this._error)._setParent(this)
            }
            return (this._continuations.push({
                promise: n,
                nextFn: e,
                catchFn: t
            })),
            this._runResolutions(),
            n
        } catch: function (e) {
            return
        }
    }
}

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if (this._isResolved())
    return r.resolve(this._data)._setParent(this)
var t = r.unresolved()._setParent(this)
return {
    this._continuations.push({ promise: t, catchFn: e }),
    this._runRejections(),
    t
}
}.
finally: function (e) {
    var t = !1
    function r(r, o) {
        if (!t) {
            ;(t = !0), e || (e = n)
            var i = e(r)
            return A(i)
        ? i.then(function () {
            if (o) throw o
            return r
        })
        : r
    }
    return this.then(function (e) {
        return r(e)
    }).catch(function (e) {
        return r(null, e)
    })
},
pause: function () {
    return (this._paused = !0), this
},
resume: function () {
    var e = this._findFirstPaused()
    return {
        e &&
        ((e._paused = !1), e._runResolutions(), e._runRejections()),
        this
    }
},
_findAncestry: function () {
    return this._continuations.reduce(function (e, t) {
        if (t.promise) {
            var r = {
                promise: t.promise,
                children: t.promise._findAncestry(),
            }
            e.push(r)
```
    return e
  }, [])
  .
  _setParent: function (e) {
    if (this._parent) throw new Error('parent already set')
    return (this._parent = e), this
  }.
  _continueWith: function (e) {
    var t = this._findFirstPending()
    t &
    if ((t._data = e), t._setResolved())
  }.
  _findFirstPending: function () {
    return this._findFirstAncestor(function (e) {
      return t._isPending && e._isPending()
    })
  }.
  _findFirstPaused: function () {
    return this._findFirstAncestor(function (e) {
      return e._paused
    })
  }.
  _findFirstAncestor: function (e) {
    for (var t, r = this; r; ) e(r) &
    if (t._isPending && (t = r), (r = r._parent)
    return t
  }.
  _failWith: function (e) {
    var t = this._findFirstPending()
    t &
    if ((t._error = e), t._setRejected())
  }.
  _takeContinuations: function () {
    return this._continuations.splice(0, this._continuations.length)
  }.
  _runRejections: function () {
    if (!this._paused && this._isRejected()) {
      var e = this._error,
      t = this._takeContinuations(),
      r = this
      t.forEach(function (t) {
        if (t.catchFn)
          try {
            var A = t.catchFn(e)
            r._handleUserFunctionResult(A, t.promise)
          } catch (e) {
            t.promise.reject(e)
          }
        else t.promise.reject(e)
      })
```

_runResolutions: function () {
if (!this._paused && this._isResolved() && !this._isPending()) {
  var e = this._takeContinuations()
  if (A(this._data))
    return this._handleWhenResolvedDataIsPromise(this._data)
  var t = this._data,
  r = this
  e.forEach(function (e) {
    if (e.nextFn)
      try {
        var A = e.nextFn(t)
        r._handleUserFunctionResult(A, e.promise)
      } catch (t) {
        r._handleResolutionError(t, e)
      }
    else e.promise && e.promise.resolve(t)
  })
}
}

_handleResolutionError: function (e, t) {
if (((this._setRejected(), t.catchFn))
  try {
    void t.catchFn(e)
  } catch (t) {
    e = t
  }
  t.promise && t.promise.reject(e)
}

_handleWhenResolvedDataIsPromise: function (e) {
  var t = this
  return e
  .then(function (e) {
    ;(t._data = e), t._runResolutions()
  })
  .catch(function (e) {
    ;(t._error = e), t._setRejected(), t._runRejections()
  })
}

_handleUserFunctionResult: function (e, t) {
A(e) ? this._chainPromiseData(e, t : t.resolve(e)

_chainPromiseData: function (e, t) {
  e.then(function (e) {
    t.resolve(e)
  }).catch(function (e) {
    t.reject(e)
_setResolved: function () {
    ;(this.status = 'resolved'),
    this._paused || this._runResolutions()
},

_setRejected: function () {
    ;(this.status = 'rejected'), this._paused || this._runRejections()
},

_isPending: function () {
    return 'pending' === this.status
},

_isResolved: function () {
    return 'resolved' === this.status
},

_isRejected: function () {
    return 'rejected' === this.status
},

);}

(r.resolve = function (e) {
    return new r(function (t, r) {
        A(e)
        ? e
        .then(function (e) {
            t(e)
        })
        .catch(function (e) {
            r(e)
        })
        : t(e)
    })
}),

(r.reject = function (e) {
    return new r(function (t, r) {
        r(e)
    })
}),

(r.unresolved = function () {
    return new r(function (e, t) {
        :(this.resolve = e), (this.reject = t)
    })
}),

(r.all = function () {
    var e = t(arguments)
    return (Array.isArray(e[0]) && e[0], e.length
    ? new r(function (t, A) {

var n = [],
o = 0,
i = !1
e.forEach(function (s, a) {
  r.resolve(s)
  .then(function (r) {
    (n[a] = r), (o += 1) === e.length &\& t(n)
  })
  .catch(function (e) {
    !function (e) {
      i || ((i = !0), A(e))
    })(e)
  })
});
:r.resolve([])
}

Promise === r)
)
throw new Error(
  'Please use SynchronousPromise.installGlobally() to install globally',
)

var o = Promise
:(r.installGlobally = function (e) {
  if (Promise === r) return e
  var A = (function (e) {
    if (void 0 === e || e.__patched) return e
    var r = e
    return (
      (e = function () {
        r.apply(this, t(arguments))
      }).__patched = !0),
        e
    )
  })(e)
  return (Promise = r), A
}),
(r.uninstallGlobally = function () {
  Promise === r &\& (Promise = o)
}),
(e.exports = { SynchronousPromise: r })
),
75799: (e, t, r) => {
  var A = r(31669),
  n = r(73975),
  o = r(77686),
  i = r(86897).Writable,
s = r(86897).PassThrough,
a = function () {},
c = function (e) {
  return (e & 86897) && 512 - e
},
g = function (e, t) {
  this._parent = e, (this.offset = t), s.call(this)
}
A.inherits(g, s),
g.prototype.destroy = function (e) {
  this._parent.destroy(e)
}
var l = function (e) {
  if (!(this instanceof l)) return new l(e)
i.call(this, e),
  (e = e || {}),
  (this._offset = 0),
  (this._buffer = n()),
  (this._missing = 0),
  (this._partial = !1),
  (this._onparse = a),
  (this._header = null),
  (this._stream = null),
  (this._overflow = null),
  (this._cb = null),
  (this._locked = !1),
  (this._destroyed = !1),
  (this._pax = null),
  (this._paxGlobal = null),
  (this._gnuLongPath = null),
  (this._gnuLongLinkPath = null)
var t = this,
  r = t._buffer,
  A = function () {
    t._continue()
  },
s = function (e) {
  if (((t._locked = !1), e)) return t.destroy(e)
    t._stream || A()
  },
u = function () {
    t._stream = null
  var e = c(t._header.size)
  e ? t._parse(e, h) : t._parse(512, I), t._locked || A()
  },
h = function () {
  t._buffer.consume(c(t._header.size)), t._parse(512, I), A()
  }.
p = function () {
    var e = t._header.size
    ;(t._paxGlobal = o.decodePax(r.slice(0, e)), r.consume(e), u())
},
d = function () {
    var e = t._header.size
    ;(t._pax = o.decodePax(r.slice(0, e)),
        t._paxGlobal &&
        (t._pax = Object.assign([], t._paxGlobal, t._pax)),
        r.consume(e),
        u())
},
C = function () {
    var A = t._header.size
    ;(this._gnuLongPath = o.decodeLongPath(
        r.slice(0, A),
        e.filenameEncoding,
    ),
        r.consume(A),
        u())
},
f = function () {
    var A = t._header.size
    ;(this._gnuLongLinkPath = o.decodeLongPath(
        r.slice(0, A),
        e.filenameEncoding,
    ),
        r.consume(A),
        u())
},
I = function () {
    var n,
        i = t._offset
    try {
        n = t._header = o.decode(r.slice(0, 512), e.filenameEncoding)
    } catch (e) {
        t.emit('error', e)
    }
    return (
        r.consume(512),
        n
        ? 'gnu-long-path' === n.type
            ? (t._parse(n.size, C), void A())
            : 'gnu-long-link-path' === n.type
                ? (t._parse(n.size, f), void A())
                : 'pax-global-header' === n.type
                    ? (t._parse(n.size, p), void A())
                    : 'pax-header' === n.type
        : t.emit('error', e)
    )
(t._parse(n.size, d), void A())

: (t._gnuLongPath &&
    ((n.name = t._gnuLongPath), (t._gnuLongPath = null)),
  t._gnuLongLinkPath &&
    ((n.linkname = t._gnuLongLinkPath),
     (t._gnuLongLinkPath = null)),
  t._pax &&
    ((t._header = n = (function (e, t) {
       return (
         t.path && (e.name = t.path),
         t.linkpath && (e.linkname = t.linkpath),
         t.size && (e.size = parseInt(t.size, 10)),
         (e.pax = t),
         e
       )
     })(n, t._pax)),
     (t._pax = null)),
  (t._locked = !0),
  n.size && 'directory' !== n.type
    ? ((t._stream = new g(t, i)),
        t.emit('entry', n, t._stream, s),
        t._parse(n.size, u),
        void A())
    : (t._parse(512, I),
        void t.emit('entry', n, (function (e, t) {
          var r = new g(e, t)
          return r.end(), r
        })(t, i), s,
        ))
    : (t._parse(512, I), void A())
  )
)

; (this._onheader = I), this._parse(512, I)
)

A.inherits(I, i),
(l.prototype.destroy = function (e) {
  this._destroyed ||
    ((this._destroyed = !0),
     e && this.emit('error', e),
     this.emit('close'),
     this._stream && this._stream.emit('close'))
  ),
(l.prototype._parse = function (e, t) {
  this._destroyed ||

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```javascript
((this._offset += e),
 (this._missing = e),
 t === this._onheader && (this._partial = !1),
 (this._onparse = t))
),
(l.prototype._continue = function () {
 if (!this._destroyed) {
 var e = this._cb
 ;(this._cb = a),
 this._overflow ? this._write(this._overflow, void 0, e) : e()
 }},
(l.prototype._write = function (e, t, r) {
 if (!this._destroyed) {
 var A = this._stream,
 n = this._buffer,
 o = this._missing
 if ((e.length && (this._partial = !0), e.length < o))
 return (
 (this._missing -= e.length),
 (this._overflow = null),
 A ? A.write(e, r) : (n.append(e), r())
 )
 ;(this._cb = r), (this._missing = 0)
 var i = null
 e.length > o && ((i = e.slice(o)), (e = e.slice(0, o))),
 A ? A.end(e) : n.append(e),
 (this._overflow = i),
 this._onparse()
 }
}),
(l.prototype._final = function (e) {
 if (this._partial)
 return this.destroy(new Error('Unexpected end of data'))
 e()
 }),
(e.exports = l)
},
77686: (e, t) => {
 var r = Buffer.alloc,
 A = '0'.charCodeAt(0),
 n = parseInt('7777', 8),
 o = function (e, t, r, A) {
 for (; r < A; r++) if (e[r] === t) return r
 return A
 },
 i = function (e) {
 for (var t = 256, r = 0; r < 148; r++) t += e[r]
```
for (var A = 156; A < 512; A++) \( t += e[A] \)
return \( t \)
},
s = function (e, t) {
return (e = e.toString(8)).length > t
? '7777777777777777777'.slice(0, t) + ''
: '000000000000000000000000'.slice(0, t - e.length) + e + ''
}
var a = function (e, t, r) {
if (128 & (e = e.slice(t, t + r))[(t = 0)])
return (function (e) {
var t
if (128 === e[0]) t = !0
else {
if (255 !== e[0]) return null

\( t = !1 \)
}
for (var r = !1, A = [], n = e.length - 1; n > 0; n--)
var o = e[n]
\( t \)
? A.push(o)
: r & 0 === o
? A.push(0)
: r
? ((r = !1), A.push(256 - o))
: A.push(255 - o)
}
var i = 0,
s = A.length
for (n = 0; n < s; n++) i += A[n] * Math.pow(256, n)
return t ? i : -1 * i
})(e)
for (; t < e.length && 32 === e[t]; ) t++
for (var A =
((n = o(e, 32, t, e.length)),
(i = e.length),
(s = e.length),
'number' != typeof n
? s
: (n = ~n) >= i
? i
: n >= 0 || (n += i) >= 0
? n
: 0);
\( t < A \&\& 0 === e[t] \);
)}
```javascript
function c(e, t, r, A) {
    return e.slice(t, o(e, 0, t, t + r)).toString(A)
},

g = function (e) {
    var t = Buffer.byteLength(e),
        r = Math.floor(Math.log(t) / Math.log(10)) + 1
    return t + r >= Math.pow(10, r) & & r++, t + r + e }

(t.decodeLongPath = function (e, t) {
    return c(e, 0, e.length, t)
}),

(t.encodePax = function (e) {
    var t = ''
    e.name && (t += g(' path=' + e.name + '\n')),
    e.linkname && (t += g(' linkpath=' + e.linkname + '\n'))
    var r = e.pax
    if (r) for (var A in r) t += g(' ' + A + '=' + r[A] + '\n')
    return Buffer.from(t)
}),

(t.decodePax = function (e) {
    for (var t = {}; e.length; ) {
        for (var r = 0; r < e.length & & 32 !== e[r]; ) r++
        var A = parseInt(e.slice(0, r).toString(), 10)
        if (!A) return t
        var n = e.slice(r + 1, A - 1).toString(),
            o = n.indexOf('=')
        if (-1 === o) return t
        (t[n.slice(0, o)] = n.slice(o + 1)), (e = e.slice(A))
    }
    return t
}),

(t.encode = function (e) {
    var t = r(512),
        o = e.name,
        a = ''
    if (5 === e.typeflag & & '/' !== o[o.length - 1] & & (o += '/')
    Buffer.byteLength(o) !== o.length)
    return null
    for (; Buffer.byteLength(o) > 100; ) {
        var c = o.indexOf('/')
        if (-1 === c) return null
        (a += a ? '/' + o.slice(0, c) : o.slice(0, c)),
```
\(\text{o = o.slice(c + 1)}\)

\(\text{return Buffer.byteLength(o) > 100 \| Buffer.byteLength(a) > 155 \| (e.linkname && Buffer.byteLength(e.linkname) > 100)}\)

? null
: (t.write(o),
  t.write(s(e.mode & n, 6), 100),
  t.write(s(e.uid, 6), 108),
  t.write(s(e.gid, 6), 116),
  t.write(s(e.size, 11), 124),
  t.write(s((e.mtime.getTime() / 1e3) | 0, 11), 136),
  (t[156] =
  A +
  (function (e) {
    switch (e) {
      case 'file':
        return 0
      case 'link':
        return 1
      case 'symlink':
        return 2
      case 'character-device':
        return 3
      case 'block-device':
        return 4
      case 'directory':
        return 5
      case 'fifo':
        return 6
      case 'contiguous-file':
        return 7
      case 'pax-header':
        return 72
    }
    return 0
  })(e.type)),
  e.linkname && t.write(e.linkname, 157),
  t.write('ustar\x0000', 257),
  e.uname && t.write(e.uname, 265),
  e.gname && t.write(e.gname, 297),
  t.write(s(e.devmajor || 0, 6), 329),
  t.write(s(e.devminor || 0, 6), 337),
  a && t.write(a, 345),
  t.write(s(i(t), 6), 148),
  t)
  )},
  (t.decode = function (e, t) {
```javascript
var r = 0 === e[156] ? 0 : e[156] - A,
n = c(e, 0, 100, t),
o = a(e, 100, 8),
s = a(e, 108, 8),
g = a(e, 116, 8),
l = a(e, 124, 12),
u = a(e, 136, 12),
h = (function (e) {
  switch (e) {
    case 0:
      return 'file'
    case 1:
      return 'link'
    case 2:
      return 'symlink'
    case 3:
      return 'character-device'
    case 4:
      return 'block-device'
    case 5:
      return 'directory'
    case 6:
      return 'fifo'
    case 7:
      return 'contiguous-file'
    case 72:
      return 'pax-header'
    case 55:
      return 'pax-global-header'
    case 27:
      return 'gnu-long-link-path'
    case 28:
    case 30:
      return 'gnu-long-path'
  }
  return null
})(r),
p = 0 === e[157] ? null : c(e, 157, 100, t),
d = c(e, 265, 32),
C = c(e, 297, 32),
f = a(e, 329, 8),
I = a(e, 337, 8),
e[345] && (n = c(e, 345, 155, t) + '/' + n),
0 === r && n && '/' === n[n.length - 1] && (r = 5)
var E = i(e)
if (256 === E) return null
if (E !== a(e, 148, 8))
  throw new Error
```
'Invalid tar header. Maybe the tar is corrupted or it needs to be gunzipped?'

return {
    name: n,
    mode: o,
    uid: s,
    gid: g,
    size: l,
    mtime: new Date(1e3 * u),
    type: h,
    linkname: p,
    uname: d,
    gname: C,
    devmajor: f,
    devminor: I,
};

); 59938: (e, t, r) => {
    (t.extract = r(75799)), (t.pack = r(72203))
},

72203: (e, t, r) => {
    var A = r(13302),
    n = r(17067),
    o = r(85870),
    i = Buffer.alloc,
    s = r(86897).Readable,
    a = r(86897).Writable,
    c = r(24304).StringDecoder,
    g = r(77686),
    l = parseInt('755', 8),
    u = parseInt('644', 8),
    h = i(1024),
    p = function () {},
    d = function (e, t) {
        (t &= 511) && e.push(h.slice(0, 512 - t))
    }
    var C = function (e) {
        a.call(this),
        (this.written = 0),
        (this._to = e),
        (this._destroyed = !1)
    }
    o(C, a),
    (C.prototype._write = function (e, t, r) {
        if (((this.written += e.length), this._to.push(e))) return r()
        this._to._drain = r
    });
(C.prototype.destroy = function () {
    this._destroyed || ((this._destroyed = !0), this.emit('close'))
});

var f = function () {
    a.call(this),
    (this.linkname = ",
    (this._decoder = new c('utf-8')),
    (this._destroyed = !1)
}

o(f, a),
(f.prototype._write = function (e, t, r) {
    ;(this.linkname += this._decoder.write(e)), r()
}).
(f.prototype.destroy = function () {
    this._destroyed || ((this._destroyed = !0), this.emit('close'))
});

var I = function () {
    a.call(this), (this._destroyed = !1)
}

o(I, a),
(I.prototype._write = function (e, t, r) {
    r(new Error('No body allowed for this entry'))
}).
(I.prototype.destroy = function () {
    this._destroyed || ((this._destroyed = !0), this.emit('close'))
});

var E = function (e) {
    if (!(this instanceof E)) return new E(e)
    s.call(this, e),
    (this._drain = p),
    (this._finalized = !1),
    (this._finalizing = !1),
    (this._destroyed = !1),
    (this._stream = null)
}

o(E, s),
(E.prototype.entry = function (e, t, r) {
    if (this._stream) throw new Error('already piping an entry')
    if (!this._finalized && !this._destroyed) {
        'function' == typeof t && ((r = t), (t = null)), r || (r = p)
        var o = this
        if (t)
            if (r)
                if ((e.size && 'symlink' !== e.type) || (e.size = 0),
                    e.type)
                    (e.type = (function (e) {
                        switch (e & A.S_IFMT) {
                            case A.S_IFBLK:
                                return 'block-device'
                        }}, t))
    }
}
case A.S_IFCHR:  
    return 'character-device'

case A.S_IFDIR:  
    return 'directory'

case A.S_IFIFO:  
    return 'fifo'

case A.S_IFLNK:  
    return 'symlink'

})(e.mode),

(e.mode || (e.mode = 'directory' === e.type ? 1 : u),

(e.uid || (e.uid = 0),

(e.gid || (e.gid = 0),

(e.mtime || (e.mtime = new Date())),

'string' == typeof t && & (t = Buffer.from(t)),

Buffer.isBuffer(t))

) 
return ( 

(e.size = t.length),

this._encode(e),

this.push(t),

d(o, e.size),

process.nextTick(r),

new I()
)

if ('symlink' === e.type && !e.linkname) {

var i = new f()

return ( 

n(i, function (t) { 

if (t) return o.destroy(), r(t)

:e.linkname = i.linkname, o._encode(e), r()
}),

i
}
)

if ( 

(this._encode(e),

'file' !== e.type && 'contiguous-file' !== e.type)

)
return process.nextTick(r), new I()

var s = new C(this)

return ( 

(this._stream = s),

n(s, function (t) { 

return ( 

(o._stream = null),

t

})

)
? (o.destroy(), r(t))
    : s.written !== e.size
? (o.destroy(), r(new Error('size mismatch'))) (d(o, e.size), o._finalizing && o.finalize(), void r())
})

s
}
)

E.prototype.finalize = function () {
    this._stream
    ? (this._finalizing = !0) : this._finalized || ((this._finalized = !0), this.push(h), this.push(null))
})

E.prototype.destroy = function (e) {
    this._destroyed || ((this._destroyed = !0), e && this.emit('error', e),
    this.emit('close'),
    this._stream && this._stream.destroy && this._stream.destroy())
})

E.prototype._encode = function (e) {
    if (!e.pax) {
        var t = g.encode(e)
        if (t) return void this.push(t)
    }
    this._encodePax(e)
})

E.prototype._encodePax = function (e) {
    var t = g.encodePax({
        name: e.name,
        linkname: e.linkname,
        pax: e.pax,
    }),
    r = {
        name: 'PaxHeader',
        mode: e.mode,
        uid: e.uid,
        gid: e.gid,
        size: t.length,
        mtime: e.mtime,
        type: 'pax-header',
        linkname: e.linkname && 'PaxHeader',
        uname: e.uname,
        gname: e.gname,
        devmajor: e.devmajor,
devminor: e.devminor,

this.push(g.encode(r)),
this.push(t),
d(this, t.length),
(r.size = e.size),
(r.type = e.type),
this.push(g.encode(r))
),
(E.prototype._read = function (e) {
  var t = this._drain
  ,(this._drain = p), t()
},
  E.prototype.exports = E)
},
84615: (e, t, r) => {
  'use strict'
  /*!*
  * to-regex-range <https://github.com/micromatch/to-regex-range>
  *
  * Copyright (c) 2015-present, Jon Schlinkert.
  * Released under the MIT License.
  */
  const A = r(59235),
  n = (e, t, r) => {
    if (!1 === A(e))
      throw new TypeError('toRegexRange: expected the first argument to be a number',
    )
    if (void 0 === t || e === t) return String(e)
    if (!1 === A(t))
      throw new TypeError('toRegexRange: expected the second argument to be a number.',
    )
    let o = { relaxZeros: !0, ...r }
    'boolean' == typeof o.strictZeros &&
    (o.relaxZeros = !1 == o.strictZeros)
    let a =
    e +
    '.' +
    t +
    '=' +
    String(o.relaxZeros) +
    String(o.shorthand) +
    String(o.capture) +
    String(o.wrap)
    if (n.cache.hasOwnProperty(a)) return n.cache[a].result
    let c = Math.min(e, t),
    g = Math.max(e, t)
if (1 === Math.abs(c - g)) {
    let r = e + '|' + t
    return o.capture ? `(${r})` : !1 === o.wrap ? r : `(?:${r})`
}
let l = p(e) || p(t),
    u = { min: e, max: t, a: c, b: g },
    h = [],
    d = []
if (l && ((u.isPadded = l), (u.maxLen = String(u.max).length)),
    c < 0)
)
    ;(d = i(g < 0 ? Math.abs(g) : 1, Math.abs(c), u, o),
    (c = u.a = 0)
} return (
    g >= 0 && (h = i(c, g, u, o)),
    (u.negatives = d),
    (u.positives = h),
    (u.result = (function (e, t, r) {
        let A = s(e, t, `~-`, !1, r) || [],
            n = s(t, e, '', !1, r) || [],
            o = s(e, t, `~?`, !0, r) || []
        return A.concat(o).concat(n).join('|')
    })(d, h, o)),
    !0 === o.capture
    ? (u.result = `(${u.result})`)
    : !1 == o.wrap &&
    h.length + d.length > 1 &&
    (u.result = `(?:${u.result})`),
    (n.cache[a] = u),
    u.result
    )
})
function o(e, t, r) {
    if (e === t) return { pattern: e, count: [], digits: 0 }
    let A = (function (e, t) {
        let r = []
        for (let A = 0; A < e.length; A++) r.push([e[A], t[A]])
        return r
    })(e, t),
    n = A.length,
    o = '',
    i = 0
    for (let e = 0; e < n; e++) {
        let [t, n] = A[e]
        t += n
        ? (o += t)
: '0' !== t || '9' !== n

? (o += h(t, n, r))

: i++

}

return (i && (o += !0 === r.shorthand ? '\d' : '[0-9]'),

{ pattern: o, count: [i], digits: n })

}

function i(e, t, r, A) {
let n,
i = (function (e, t) {
let r = 1,
  A = 1,
  n = g(e, r),
  o = new Set([t])
for (; c <= n & & n <= t; ) o.add(n), (r += 1), (n = g(e, r))
for (n = l(t + 1, A) - 1; c < n & & n <= t; )
o.add(n), (A += 1), (n = l(t + 1, A) - 1)
return (o = [...o]), o.sort(a), o
})(e, t),
s = [],
c = e
for (let e = 0; e < i.length; e++) {
let t = i[e],
a = o(String(c), String(t), A),
g = "
  r.isPadded || n || n.pattern !== a.pattern
? (r.isPadded & & (g = d(t, r, A)),
    (a.string = g + a.pattern + u(a.count)),
s.push(a),
    (c = t + 1),
    (n = a))
: (n.count.length > 1 & & n.count.pop(),
  n.count.push(a.count[0]),
  (n.string = n.pattern + u(n.count)),
  (c = t + 1))
}

return s
}

function s(e, t, r, A, n) {
let o = []
for (let n of e) {
  let { string: e } = n
  A || c(t, 'string', e) || o.push(r + e),
  A & & c(t, 'string', e) & & o.push(r + e)
}

return o
function a(e, t) {
  return e > t ? 1 : t > e ? -1 : 0
}

function c(e, t, r) {
  return e.some((e) => e[t] === r)
}

function g(e, t) {
  return Number(String(e).slice(0, -t) + '9'.repeat(t))
}

function h(e, t) {
  return e - (e % Math.pow(10, t))
}

function u(e) {
  let [t = 0, r = ''] = e
  return r || t > 1 ? `{${t + (r ? ',' + r : '')}}` : ''
}

function p(e) {
  return /^-?(0+)\d/.test(e)
}

function d(e, t, r) {
  if (!t.isPadded) return e
  let A = Math.abs(t.maxLen - String(e).length),
      n = !1 !== r.relaxZeros
  switch (A) {
    case 0:
      return ''
    case 1:
      return n ? '0?' : '0'
    case 2:
      return n ? '0{0,2}' : '00'
    default:
      return n ? `0{0,${A}}` : `0{${A}}`
  }
}

(function a(e, t) {
  return e > t ? 1 : t > e ? -1 : 0
})

function c(e, t, r) {
  return e.some((e) => e[t] === r)
}

function g(e, t) {
  return Number(String(e).slice(0, -t) + '9'.repeat(t))
}

function h(e, t) {
  return e - (e % Math.pow(10, t))
}

function u(e) {
  let [t = 0, r = ''] = e
  return r || t > 1 ? `{${t + (r ? ',' + r : '')}}` : ''
}

function p(e) {
  return /^-?(0+)\d/.test(e)
}

function d(e, t, r) {
  if (!t.isPadded) return e
  let A = Math.abs(t.maxLen - String(e).length),
      n = !1 !== r.relaxZeros
  switch (A) {
    case 0:
      return ''
    case 1:
      return n ? '0?' : '0'
    case 2:
      return n ? '0{0,2}' : '00'
    default:
      return n ? `0{0,${A}}` : `0{${A}}`
  }
}

:n.cache = { }, (n.clearCache = () => (n.cache = {})), (e.exports = n)

75158: (e) => {
  function t(e, t) {
    var r = e.length,
        A = new Array(r),
        n = {},
        o = r,
        i = (function (e) {
          for (var t = new Map(), r = 0, A = e.length; r < A; r++) {
            var s = e[r] === '

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var n = e[r]
t.has(n[0]) || t.set(n[0], new Set()),
t.has(n[1]) || t.set(n[1], new Set()),
t.get(n[0]).add(n[1])
}
return t
}))(),
s = (function (e) {
for (var t = new Map(), r = 0, A = e.length; r < A; r++)
t.set(e[r], r)
return t
}))((e)
for (t.forEach(function (e) {
if (!s.has(e[0]) || !s.has(e[1]))
throw new Error('Unknown node. There is an unknown node in the supplied edges.'
));
o--;

) n[o] || a(e[o], o, new Set())
return A
function a(e, t, o) {
if (o.has(e)) {
var c
try {
  c = ', node was:' + JSON.stringify(e)
} catch (e) {
  c = "
}
throw new Error('Cyclic dependency' + c)
}
if (!s.has(e))
throw new Error('Found unknown node. Make sure to provided all involved nodes. Unknown node: ' +
  JSON.stringify(e),
)
if (!n[t]) {
  n[t] = t0
  var g = i.get(e) || new Set()
  if ((t = g = Array.from(g).length)) {
    o.add(e)
do {
    var l = g[--t]
    a(l, s.get(l), o)
  } while (t)
function (e) {
    for (var t = new Set(), r = 0, A = e.length; r < A; r++) {
        var n = e[r]
        t.add(n[0]), t.add(n[1])
    }
    return Array.from(t)
}(e),

},

(function (e) {
    e.exports.array = t
})

)e.exports = (function () {
    function e(t, r, A, n, o, i, s) {
        var a,
            c,
            g = '',
            l = 0,
            u = n.slice(0)
        if (u.push([r, A]) && u.length > 0 && (u.forEach(function (e, t) {
            t > 0 && (g += (e[1] ? ' ' : '') + '  '),
            c || e[0] !== r || (c = !0)
        }), g += (function (e, t) {
            var r = t ? '' : ''
            return (r += e ? ' ' : '')
        })(t, A) + t), o && ('object' != typeof r || r instanceof Date) && (g += ': ' + r), c && (g += ' (circular ref.)'), s(g)), !c && 'object' == typeof r
    )
    (var h = (function (e, t) {
        var r = t ? "" : "
        return (r += e ? ' ' : "
    })(t, A) + t),
    o &&
    (function (e, t) {
        var r = t ? "" : "
        return (r += e ? ' ' : "
    })(t, A) + t),
    o &&
    (function (e, t) {
        var r = t ? "" : "
        return (r += e ? ' ' : "
    })(t, A) + t),
    !c && 'object' == typeof r
})
    var h = (function (e, t) {

```javascript
var r = []
for (var A in e)
    e.hasOwnProperty(A) &&
    ((t && 'function' === typeof e[A]) || r.push(A))
return r
})(r, i)
h.forEach(function (t) {
    (a = ++l === h.length), e(t, r[t], a, o, i, s)
})
}
var t = {
    asLines: function (t, r, A, n) {
        e('.', t, !1, [], r, 'function' !== typeof A && A, n || A)
    },
    asTree: function (t, r, A) {
        var n = "
        return (n += e('.', t, !1, [], r, A, function (e) {
            n += e + '\n'
        }), n)
    },
    return t
})()
},
36370: (e, t, r) => {
    'use strict'
    r.d(t, { gn: () => A })
    function A(e, t, r, A) {
        var n,
            o = arguments.length,
            i =
            o < 3
                ? t
                : null === A
            ? (A = Object.getOwnPropertyDescriptor(t, r))
                : A
        if ('
            'object' === typeof Reflect &&
            'function' === typeof Reflect.decorate
        )
            i = Reflect.decorate(e, t, r, A)
        else
            for (var s = e.length - 1; s >= 0; s--)
                (n = e[s]) &&
```
(i = (o < 3 ? n(i) : o > 3 ? n(t, r, i) : n(t, r)) || i)
return o > 3 && i && Object.defineProperty(t, r, i), i
}]
},
98161: (e, t, r) => {
e.exports = r(69876)
},
69876: (e, t, r) => {
'use strict'

r(11631)
var A,
n = r(4016),
o = r(98605),
i = r(57211),
s = r(28614),
a = (r(42357), r(31669))

function c(e) {
  var t = this
  ;(t.options = e || {}),
  (t.proxyOptions = t.options.proxy || {}),
  (t.maxSockets = t.options.maxSockets || 0.Agent.defaultMaxSockets),
  (t.requests = []),
  (tsockets = []),
t.on('free', function (e, r, A, n) {
    for (var o = l(r, A, n), i = 0, s = t.requests.length; i < s; ++i
    ) {
      var a = t.requests[i]
      if (a.host === o.host && a.port === o.port)
        return t.requests.splice(i, 1), void a.request.onSocket(e)
    }
    e.destroy(), t.removeSocket(e)
  })
}

function g(e, t) {
  var r = this
c.prototype.createSocket.call(r, e, function (A) {
    var o = e.request.getHeader('host'),
i = u({}, t.options, {
      socket: A,
      servername: o ? o.replace(/:.*$/, '') : e.host,
    }),
    s = n.connect(0, i)
    ;(r.sockets[r.sockets.indexOf(A)] = s), t(s)
  })
})

}
function l(e, t, r) {
    return 'string' == typeof e
        ? { host: e, port: t, localAddress: r }
        : e
}

function u(e) {
    for (var t = 1, r = arguments.length; t < r; ++t) {
        var A = arguments[t]
        if ('object' == typeof A)
            for (var n = Object.keys(A), o = 0, i = n.length; o < i; ++o) {
                var s = n[o]
                void 0 !== A[s] && (e[s] = A[s])
            }
    }
    return e
}

(t.httpOverHttp = function (e) {
    var t = new c(e)
    return (t.request = o.request), t
}),
(t.httpsOverHttp = function (e) {
    var t = new c(e)
    return (t.request = o.request),
        (t.createSocket = g),
        (t.defaultPort = 443),
        t
    )
},
a.inherits(c, s.EventEmitter),
(c.prototype.addRequest = function (e, t, r, A) {
    var n = this,
        o = u({ request: e }, n.options, l(t, r, A))
    n.sockets.length >= this.maxSockets
        ? n.requests.push(o)
        : n.createSocket(o, function (t) {
            function r() {
                n.emit('free', t, o)
            }
            function A(e) {
                n.removeSocket(t),
                t.removeListener('free', r),
                t.removeListener('close', A),
                t.removeListener('agentRemove', A)
            }
            t.on('free', r),
            t.on('close', A),
            t.on('agentRemove', A),
e.onSocket(t)
})
})
(c.prototype.createSocket = function (e, t) {
  var r = this,
  n = [
    r.sockets.push(n)
  var o = u({} , r.proxyOptions, {
    method: 'CONNECT',
    path: e.host + ':' + e.port,
    agent: !1,
    headers: { host: e.host + ':' + e.port },
  })
  e.localAddress && (o.localAddress = e.localAddress),
  o.proxyAuth &&
  ((o.headers = o.headers || {}),
  (o.headers['Proxy-Authorization'] =
   'Basic ' + new Buffer(o.proxyAuth).toString('base64'))),
  A('making CONNECT request')
  var i = r.request(o)
  function s(o, s, a) {
    var c
    return (i.removeAllListeners(),
    s.removeAllListeners(),
    200 !== o.statusCode
    ? (A( 'tunneling socket could not be established, statusCode=%d',
    o.statusCode,
    ),
    s.destroy(),
    ((c = new Error( 'tunneling socket could not be established, statusCode='+
    o.statusCode,
    )).code = 'ECONNRESET'),
    e.request.emit('error', c),
    void r.removeSocket(n))
    : a.length > 0
    ? (A('got illegal response body from proxy'),
    s.destroy(),
    ((c = new Error( 'got illegal response body from proxy',
    )).code = 'ECONNRESET'),
    e.request.emit('error', c),
    void r.removeSocket(n))
    : (A('tunneling connection has established'),
    (r.sockets[r.sockets.indexOf(n)] = s),
    t(s))

  return (i.removeAllListeners(),
  s.removeAllListeners(),
  200 !== o.statusCode
  ? (A( 'tunneling socket could not be established, statusCode=%d',
    o.statusCode,
    ),
    s.destroy(),
    ((c = new Error( 'tunneling socket could not be established, statusCode='+
    o.statusCode,
    )).code = 'ECONNRESET'),
    e.request.emit('error', c),
    void r.removeSocket(n))
    : a.length > 0
    ? (A('got illegal response body from proxy'),
    s.destroy(),
    ((c = new Error( 'got illegal response body from proxy',
    )).code = 'ECONNRESET'),
    e.request.emit('error', c),
    void r.removeSocket(n))
    : (A('tunneling connection has established'),
    (r.sockets[r.sockets.indexOf(n)] = s),
    t(s))

  return (i.removeAllListeners(),
  s.removeAllListeners(),
  200 !== o.statusCode
  ? (A( 'tunneling socket could not be established, statusCode=%d',
    o.statusCode,
    ),
    s.destroy(),
    ((c = new Error( 'tunneling socket could not be established, statusCode='+
    o.statusCode,
    )).code = 'ECONNRESET'),
    e.request.emit('error', c),
    void r.removeSocket(n))
    : a.length > 0
    ? (A('got illegal response body from proxy'),
    s.destroy(),
    ((c = new Error( 'got illegal response body from proxy',
    )).code = 'ECONNRESET'),
    e.request.emit('error', c),
    void r.removeSocket(n))
    : (A('tunneling connection has established'),
    (r.sockets[r.sockets.indexOf(n)] = s),
    t(s))

  return (i.removeAllListeners(),
  s.removeAllListeners(),
  200 !== o.statusCode
  ? (A( 'tunneling socket could not be established, statusCode=%d',
    o.statusCode,
    ),
    s.destroy(),
    ((c = new Error( 'tunneling socket could not be established, statusCode='+
    o.statusCode,
    )).code = 'ECONNRESET'),
    e.request.emit('error', c),
    void r.removeSocket(n))
    : a.length > 0
    ? (A('got illegal response body from proxy'),
    s.destroy(),
    ((c = new Error( 'got illegal response body from proxy',
    )).code = 'ECONNRESET'),
    e.request.emit('error', c),
    void r.removeSocket(n))
    : (A('tunneling connection has established'),
    (r.sockets[r.sockets.indexOf(n)] = s),
    t(s))

  return (i.removeAllListeners(),
  s.removeAllListeners(),
  200 !== o.statusCode
  ? (A( 'tunneling socket could not be established, statusCode=%d',
    o.statusCode,
    ),
    s.destroy(),
    ((c = new Error( 'tunneling socket could not be established, statusCode='+
    o.statusCode,
    )).code = 'ECONNRESET'),
    e.request.emit('error', c),
    void r.removeSocket(n))
    : a.length > 0
    ? (A('got illegal response body from proxy'),
    s.destroy(),
    ((c = new Error( 'got illegal response body from proxy',
    )).code = 'ECONNRESET'),
    e.request.emit('error', c),
    void r.removeSocket(n))
    : (A('tunneling connection has established'),
    (r.sockets[r.sockets.indexOf(n)] = s),
    t(s))

  return (i.removeAllListeners(),
  s.removeAllListeners(),
  200 !== o.statusCode
  ? (A( 'tunneling socket could not be established, statusCode=%d',
    o.statusCode,
    ),
    s.destroy(),
    ((c = new Error( 'tunneling socket could not be established, statusCode='+
    o.statusCode,
    )).code = 'ECONNRESET'),
    e.request.emit('error', c),
    void r.removeSocket(n))
    : a.length > 0
    ? (A('got illegal response body from proxy'),
    s.destroy(),
    ((c = new Error( 'got illegal response body from proxy',
    )).code = 'ECONNRESET'),
    e.request.emit('error', c),
    void r.removeSocket(n))
    : (A('tunneling connection has established'),
    (r.sockets[r.sockets.indexOf(n)] = s),
    t(s))

  return (i.removeAllListeners(),
  s.removeAllListeners(),
  200 !== o.statusCode
  ? (A( 'tunneling socket could not be established, statusCode=%d',
    o.statusCode,
    ),
    s.destroy(),
    ((c = new Error( 'tunneling socket could not be established, statusCode='+
    o.statusCode,
    )).code = 'ECONNRESET'),
    e.request.emit('error', c),
    void r.removeSocket(n))
    : a.length > 0
    ? (A('got illegal response body from proxy'),
    s.destroy(),
    ((c = new Error( 'got illegal response body from proxy',
    )).code = 'ECONNRESET'),
    e.request.emit('error', c),
    void r.removeSocket(n))
    : (A('tunneling connection has established'),
    (r.sockets[r.sockets.indexOf(n)] = s),
    t(s))
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const A =
    'win32' === process.platform ||
    'cygwin' === process.env.OSTYPE ||
    'msys' === process.env.OSTYPE,
  n = r(85622),
  o = A ? ';' : ':',
  i = r(64151),
  s = (e) =>
    Object.assign(new Error('not found: ' + e), { code: 'ENOENT' }),
a = (e, t) =>
  const r = t.colon || o,
  n =
    e.match(/\(/) || (A && e.match(/\/))
  ? ['']
  : [
    ...(A ? [process.cwd()] : []),
    ...(t.path || process.env.PATH || '').split(o),
  ],
  i = A
    ? t.pathExt || process.env.PATHEXT || '.EXE;.CMD;.BAT;.COM' : '',
  s = A ? i.split(o) : ['']
  return (A && -1 !== e.indexOf('.') && '' !== s[0] && s.unshift(''),
    { pathEnv: n, pathExt: s, pathExtExe: i })
  )
  ,
c = (e, t, r) =>
  'function' === typeof t && ((r = t), (t = {})), t || (t = {})
  const { pathEnv: A, pathExt: o, pathExtExe: c } = a(e, t),
  g = [],
  l = (r) =>
    new Promise((o, i) => {
      if (r === A.length) return t.all && g.length ? o(g) : i(s(e))
      const a = A[r],
        c = /^".\*$/t.test(a) ? a.slice(1, -1) : a,
        l = n.join(c, e),
        h = l && /^\[/test(e) ? e.slice(0, 2) + 1 : l
      o(u(h, r, 0))
    }),
  u = (e, r, A) =>
    : function () { })
},
73212: (e, t, r) => {
e.exports = r(31669).deprecate
},
87945: (e, t, r) =>

new Promise((n, s) => {
  if (A === o.length) return n(l(r + 1))
  const a = o[A]
  i(e + a, { pathExt: c }, (o, i) => {
    if (!o &amp;&amp; i) {
      if (!t.all) return n(e + a)
      g.push(e + a)
    }
    return n(u(e, r, A + 1))
  })
})
return r ? l(0).then((e) =&gt; r(null, e), r) : l(0)
};(e.exports = c),
(c.sync = (e, t) =&gt; {
  t = t || {} 
  const { pathEnv: r, pathExt: A, pathExtExe: o } = a(e, t),
  c = []
  for (let s = 0; s &lt; r.length; s++) {
    const a = r[s],
    g = /^".*"$/test(a) ? a.slice(1, -1) : a,
    l = n.join(g, e),
    u = !g &amp;&amp; /[\/\]/.test(e) ? e.slice(0, 2) + l : l
    for (let e = 0; e &lt; A.length; e++) {
      const r = u + A[e]
      try {
        if (i.sync(r, { pathExt: o })) {
          if (!t.all) return r
          c.push(r)
        }
      } catch (e) {}
    }
  }
  if (t.all &amp;&amp; c.length) return c
  if (t.nothrow) return null
  throw s(e)
})

98984: (e) =&gt; {
  e.exports = function e(t, r) {
    if (t &amp;&amp; r) return t(r)
    if (typeof &lt;= type of t)
      throw new TypeError('need wrapper function')
    return (
      Object.keys(t).forEach(function (e) {
        A[e] = t[e]
      }),
      A
function A() {
    for (var e = new Array(arguments.length), r = 0; r < e.length; r++)
        e[r] = arguments[r]
    var A = t.apply(this, e),
        n = e[e.length - 1]
    return (        'function' == typeof A &&
        A != n &&
        Object.keys(n).forEach(function (e) {
            A[e] = n[e]
        }),
        A
    )
}

94916: (e, t, r) => {
    'use strict'
    var A = r(60087)
    ;(t.__esModule = !0), (t.default = void 0)
    var n = A(r(15215)),
        o = A(r(11050)),
        i = (function () {
            function e(e, t) {
                if (((this.refs = e), 'function' != typeof t)) {
                    if (!(0, n.default)(t, 'is'))
                        throw new TypeError('`is:` is required for `when()` conditions',
                    )
                    if (!t.then && !t.otherwise)
                        throw new TypeError('either `then:` or `otherwise:` is required for `when()` conditions',
                    )
                    var r = t.is,
                        A = t.then,
                        o = t.otherwise,
                        i =
                'function' == typeof r
                ? r
                : function () {
                    for (var e = arguments.length, t = new Array(e), A = 0;
                        A < e;
                        A++
                    )
                        t[A] = arguments[A]
                    return t.every(function (e) {
                    })
            }
            return e
        }());
    return i(e, t, r)
}
return e === r
})
}
this.fn = function () {
for (var e = arguments.length, t = new Array(e), r = 0;
    r < e;
r++)
    t[r] = arguments[r]
var n = t.pop(),
s = t.pop(),
a = i.apply(void 0, t) ? A : o
if (a)
    return 'function' === typeof a
    ? a(s)
    : s.concat(a.resolve(n))
}
} else this.fn = t
return (e.prototype.resolve = function (e, t) {
    var r = this.refs.map(function (e) {
        return e.getValue(t)
    }),
    A = this.fn.apply(e, r.concat(e, t))
    if (void 0 === A || A === e) return e
    if (!(0, o.default)(A))
        throw new TypeError('conditions must return a schema object')
    return A.resolve(t)
}),
e
})()
;(t.default = i), (e.exports = t.default)

'}use strict'
var A = r(60087)
;(t.__esModule = !0), (t.exports = t.default)

6856: (e, t, r) => {
    'use strict'
    var A = r(60087)
    ;(t.__esModule = !0), (t.default = void 0)
    var n = A(r(11050)),
    o = (function () {
        function e(e) {
            this._resolve = function (t, r) {
                var A = e(t, r)
                if (!0, n.default)(A)
                    throw new TypeError(
                        'lazy() functions must return a valid schema',
                    )
    )
    e
    })()
```javascript
var t = e.prototype
return {
  t.resolve = function (e) {
    return this._resolve(e.value, e)
  },
  t.cast = function (e, t) {
    return this._resolve(e, t).cast(e, t)
  },
  t.validate = function (e, t) {
    return this._resolve(e, t).validate(e, t)
  },
  t.validateSync = function (e, t) {
    return this._resolve(e, t).validateSync(e, t)
  },
  t.validateAt = function (e, t, r) {
    return this._resolve(t, r).validateAt(e, t, r)
  },
  t.validateSyncAt = function (e, t, r) {
    return this._resolve(t, r).validateSyncAt(e, t, r)
  },
  e
}

o.prototype.__isYupSchema__ = !0
var i = o
;(t.default = i), (e.exports = t.default)
```

```
95814: (e, t, r) => {
  'use strict'
  var A = r(60087)
  ;(t.__esModule = !0), (t.default = void 0)
  var n = A(r(72912)),
  o = r(79588),
  i = '$',
  s = '.',
  a = (function () {
    function e(e, t) {
      if (((void 0 === t & & (t = {}), 'string' !== typeof e))
        throw new TypeError('ref must be a string, got: ' + e)
      if (((this.key = e.trim()), "" === e))
        throw new TypeError('ref must be a non-empty string')
      (this.isContext = this.key[0] === i),
      (this.isValue = this.key[0] === s),
      (this.isSibling = !this.isContext & & !this.isValue)
```
var r = this.isContext ? i : this.isValue ? s : "
;(this.path = this.key.slice(r.length)),
(this.getter = this.path && (0, o.getter)(this.path, '0)),
(this.map = t.map)
}

var t = e.prototype
return (t.getValue = function (e) {
  var t = this.isContext
    ? e.context
    : this.isValue
    ? e.value
    : e.parent
  return (this.getter && (t = this.getter(t || {})),
    this.map && (t = this.map(t)),
    t)
}),
(t.cast = function (e, t) {
  return this.getValue((0, n.default)({}, t, { value: e }))
}),
(t.resolve = function () {
  return this
}),
(t.describe = function () {
  return { type: 'ref', key: this.key }
}),
(t.toString = function () {
  return 'Ref(' + this.key + ')'
}),
(e.isRef = function (e) {
  return e && e.__isYupRef
}),

})(t.default = a), (a.prototype.__isYupRef = !0), (e.exports = t.default)
}
function s(e, t, r, A) {
    var n = this
    :(this.name = 'ValidationError'),
    (this.value = t),
    (this.path = r),
    (this.type = A),
    (this.errors = []),
    (this.inner = []),
    e &&
    [].concat(e).forEach(function (e) {
        :(n.errors = n.errors.concat(e.errors || e)),
        e.inner &&
        (n.inner = n.inner.concat(e.inner.length ? e.inner : e))
    }),
    (this.message =
        this.errors.length > 1
        ? this.errors.length + ' errors occurred'
        : this.errors[0]),
    Error.captureStackTrace && Error.captureStackTrace(this, s)
}
:(s.prototype = Object.create(ValidationError.prototype)),
(s.prototype.constructor = s),
(s.isError = function (e) {
    return e && 'ValidationError' === e.name
}),
(s.formatError = function (e, t) {
    'string' == typeof e && (e = i(e))
    var r = function (t) {
        return (t.path = t.label || t.path || 'this'),
        'function' == typeof e ? e(t) : e
    }
    return 1 === arguments.length ? r : r(t)
}),
(e.exports = t.default)
}
18830: (e, t, r) => {
    'use strict'
    var A = r(19228),
    n = r(60087)
    :(t.__esModule = !0), (t.default = void 0)
    var o = n(r(72912)),
    i = n(r(62407)),
    A = r(19228),
    n = r(60087)
    :(t.__esModule = !0), (t.default = void 0)
    var o = n(r(72912)),
    i = n(r(62407)),
```javascript
s = n(r(31490)),
a = n(r(71665)),
c = n(r(11050)),
g = n(r(7045)),
l = n(r(21043)),
u = n(r(16434)),
h = r(63802),
p = A(r(80180))

function d() {
  var e = (0, i.default)(['", [", ']])
  return (
    (d = function () {
      return e
    }).
    e
  )
}

var C = f

function f(e) {
  var t = this
  if (!(this instanceof f)) return new f(e)
  u.default.call(this, { type: 'array' }),
  (this._subType = void 0),
  this.withMutation(function () {
    t.transform(function (e) {
      if ('string' == typeof e)
        try {
          e = JSON.parse(e)
        } catch (t) {
          e = null
        }
        return this.isType(e) ? e : null
      }),
      e && t.of(e)
    })
  })
:((t.default = C),
(0, s.default)(f, u.default, {
  _typeCheck: function (e) {
    return Array.isArray(e)
  },
  _cast: function (e, t) {
    var r = this,
    A = u.default.prototype._cast.call(this, e, t)
    if (!this._typeCheck(A) || !this._subType) return A
    var n = !1,
    o = A.map(function (e) {
      var A = r._subType.cast(e, t)
      if (e && o.of(e))
        return o.of(e)
    })
    return A
  }
})
```

---

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return A !== e && (n = !0), A
})
return n ? o : A
).
_validate: function (e, t) {
  var r = this
  void 0 === t && (t = {})
  var A = [],
  n = t.sync,
  i = t.path,
  s = this._subType,
  a = this._option('abortEarly', t),
  c = this._option('recursive', t),
  l = null !== e/originalValue ? e.originalValue : e
return u.default.prototype._validate .call(this, e, t)
.catch((0, p.propagateErrors)(a, A))
.then(function (e) {
  if (!c || !s || !r._typeCheck(e)) {
    if (A.length) throw A[0]
    return e
  }
  l = l || e
  var u = e.map(function (r, A) {
    var n = (0, g.default)(d(), t.path, A),
    i = (0, o.default)({}, t, { path: n, strict: !0, parent: e, originalValue: l[A], })
    return !s.validate || s.validate(r, i)
    })
    return (0, p.default)({ sync: n, path: i, value: e, errors: A, endEarly: a, validations: u })
  })
  }).
_isPresent: function (e) {
  return u.default.prototype._cast.call(this, e) && e.length > 0
  }.
of: function (e) {
  var t = this.clone()
  if (!1 !== e && !c.default(e))
    throw new TypeError(  `array.of()` sub-schema must be a valid yup schema, or `false` to negate a current sub-schema. not: ` +
    (0, l.default(e),
  )
  return (t._subType = e), t
Open Source Used In Cisco Cloud Mailbox Defense -CMD (Project Raptor) April 2021
function u() {
  var e = this
  if (!((this instanceof u)) return new u()
  n.default.call(this, { type: 'date' }),
  this.withMutation(function () {
    e.transform(function (e) {
      return this.isType(e)
        ? e
        : (e = (0, i.default)(e))
        ? new Date(e)
        : g
    })
  })
}

:(t.default = l),
(0, o.default)(u, n.default, {
  _typeCheck: function (e) {
    return (
      t = e),
      '[object Date]' === Object.prototype.toString.call(t) &&
      isNaN(t.getTime())
    )
  },
  min: function (e, t) {
    void 0 === t && (t = s.date.min)
    var r = e
    if (e.default.isRef(r) &&
      ((r = this.cast(e)), !this._typeCheck(r))
    )
      throw new TypeError("
        `min` must be a Date or a value that can be `cast()` to a Date,
      ",
    )
    return this.test({
      message: t,
      name: 'min',
      exclusive: !0,
      params: { min: e },
      test: function (e) {
        return (0, a.default)(e) || e >= this.resolve(r)
      },
    })
})
max: function (e, t) {
  void 0 === t && (t = s.date.max)
  var r = e
  if (n
    !c.default.isRef(r) &&
    ((r = this.cast(e)), !this._typeCheck(r))
  )
    throw new TypeError(
      "max` must be a Date or a value that can be `cast()` to a Date",
    )
  return this.test({
    message: t,
    name: 'max',
    exclusive: !0,
    params: { max: e },
    test: function (e) {
      return (0, a.default)(e) || e <= this.resolve(r)
    },
  })
},
)
(e.exports = t.default)
},
15966: (e, t, r) => {
  'use strict'
  var A = r(60087)
  ;(t.__esModule = !0),
  (t.addMethod = function (e, t, r) {
    if (!e || !(0, d.default)(e.prototype))
      throw new TypeError(‘You must provide a yup schema constructor function’,
    )
    if (‘string’ != typeof t)
      throw new TypeError(‘A Method name must be provided’)‘
    if (‘function’ != typeof r)
      throw new TypeError(‘Method function must be provided’)
    e.prototype[t] = r
  }),
  (t.lazy = t.ref = t.boolean = void 0)
  var n = A(r(16434))
  t.mixed = n.default
  var o = A(r(76595))
  t.bool = o.default
  var i = A(r(72068))
  t.string = i.default
  var s = A(r(72068))
  t.number = s.default
var a = A(r(41755))
t.date = a.default
var c = A(r(51727))
t.object = c.default
var g = A(r(18830))
t.array = g.default
var l = A(r(95814)),
u = A(r(6856)),
h = A(r(40828))
t.ValidationError = h.default
var p = A(r(43910))
t.reach = p.default
var d = A(r(11050))
t.isSchema = d.default
var C = A(r(24280))
t.setLocale = C.default
var f = o.default
t.boolean = f

t.ref = function (e, t) {
  return new l.default(e, t)
}
t.lazy = function (e) {
  return new u.default(e)
}
,}
63802: (e, t, r) => {
'use strict'
var A = r(60087)
:(t.__esModule = !0),
(t.default = t.array = t.object = t.boolean = t.date = t.number = t.string = t.mixed = void 0)
var n = A(r(21043)),
o = {
  default: '${path} is invalid',
  required: '${path} is a required field',
  oneOf: '${path} must be one of the following values: ${values}',
  notOneOf: '${path} must not be one of the following values: ${values}',
  notType: function (e) {
    var t = e.path,
      r = e.type,
      A = e.value,
      o = e.originalValue,
      i = null !== o & & o !== A,
      s =
      t +
    ' must be a `' +
      r +
    '' type, but the final value was: `' +
null === A &&
(s +=
  `\n  If "null" is intended as an empty value be sure to mark the schema as `.nullable()`),
  s)
},
};
t.mixed = o
var i = {
  length: `${path} must be exactly ${length} characters`,
  min: `${path} must be at least ${min} characters`,
  max: `${path} must be at most ${max} characters`,
  matches: `${path} must match the following: "${regex}"`,
  email: `${path} must be a valid email`,
  url: `${path} must be a valid URL`,
  trim: `${path} must be a trimmed string`,
  lowercase: `${path} must be a lowercase string`,
  uppercase: `${path} must be a upper case string`,
}
t.string = i
var s = {
  min: `${path} must be greater than or equal to ${min}`,
  max: `${path} must be less than or equal to ${max}`,
  lessThan: `${path} must be less than ${less}`,
  moreThan: `${path} must be greater than ${more}`,
  notEqual: `${path} must be not equal to ${notEqual}`,
  positive: `${path} must be a positive number`,
  negative: `${path} must be a negative number`,
  integer: `${path} must be an integer`,
}
t.number = s
var a = {
  min: `${path} field must be later than ${min}`,
  max: `${path} field must be at earlier than ${max}`,
}
t.date = a
var c = {
  t.boolean = c
var g = {
  noUnknown:
    `${path} field cannot have keys not specified in the object shape`,
  
}
t.object = g
var l = {
  min: '${path} field must have at least ${min} items',
  max: '${path} field must have less than or equal to ${max} items',
}
t.array = l
var u = {
  mixed: o,
  string: i,
  number: s,
  date: a,
  object: g,
  array: l,
  boolean: c,
}
t.default = u
}
16434: (e, t, r) => {
  'use strict'
  var A = r(60087)
  :(t.__esModule = !0), (t.default = I)
  var n = A(r(72912)),
  o = A(r(15215)),
  i = A(r(26052)),
  s = A(r(78700)),
  a = r(63802),
  c = A(r(94916)),
  g = A(r(80180)),
  l = A(r(22808)),
  u = A(r(11050)),
  h = A(r(54107)),
  p = A(r(21043)),
  d = A(r(95814)),
  C = r(43910),
  f = (function () {
    function e() {
      (this.list = new Set()), (this.refs = new Map())
    }
    var t = e.prototype
    return (t.toArray = function () {
      return (0, s.default)(this.list).concat(
        (0, s.default)(this.refs.values()),
      )
    })
    (t.add = function (e) {
      d.default.isRef(e) ? this.refs.set(e.key, e) : this.list.add(e)
    })
  })()}
(t.delete = function (e) {
  d.default.isRef(e)
  ? this.refs.delete(e.key, e)
    : this.list.delete(e)
}),
(t.has = function (e, t) {
  if (this.list.has(e)) return !0
  for (var r, A = this.refs.values(); !(r = A.next()).done; )
    if ((r.value) === e) return !0
  return !1
}),
(e)
)();

function I(e) {
  var t = this
  if (((void 0 === e && (e = {}), !(this.instanceof I))) return new I()
    :(this._deps = []),
    (this._conditions = []),
    (this._options = { abortEarly: !0, recursive: !0 }),
    (this._exclusive = Object.create(null)),
    (this._whitelist = new f()),
    (this._blacklist = new f()),
    (this.tests = []),
    (this.transforms = []),
    this.withMutation(function () {
      t.typeError(a.mixed.notType)
    }),
    (0, o.default)(e, 'default') && (this._defaultDefault = e.default),
    (this._type = e.type || 'mixed')}
  for (var E = (I.prototype = {
    __isYupSchema__: '0',
    constructor: I,
    clone: function () {
      var e = this
      return this._mutate
    },
    label: function (e) {
      var t = this.clone()
      return (t._label = e), t
    },
    meta: function (e) {

if (0 === arguments.length) return this._meta
var t = this.clone()
return (t._meta = (0, n.default)(t._meta || [{}], e), t)
},
withMutation: function (e) {
  var t = this._mutate
  this._mutate = !0
  var r = e(this)
  return (this._mutate = t), r
},
concat: function (e) {
  if (!e || e === this) return this
  if (e._type !== this._type && 'mixed' !== this._type)
    throw new TypeError("You cannot `concat()` schema's of different types: " +
      this._type +
      ' and ' +
      e._type,
    )
  var t = (0, l.default)(e.clone(), this)
  return (
    (0, o.default)(e, '_default') && (t._default = e._default),
    t.tests = this.tests,
    t._exclusive = this._exclusive,
    t.withMutation(function (t) {
      e.tests.forEach(function (e) {
        t.test(e.OPTIONS)
      })
    })
  ).withMutation(function (t) {
    t
  })
},
isType: function (e) {
  return (!
    (!this._nullable || null !== e) || !this._typeCheck ||
    this._typeCheck(e)
  )
},
resolve: function (e) {
  var t = this
  if (t._conditions.length) {
    var r = t._conditions
    ;((t = t.clone())._conditions = []),
    t = (t = r.reduce(function (t, r) {
      return r.resolve(t, e)
    }, t)).resolve(e)
  }
}
return t
},
cast: function (e, t) {
  void 0 === t && (t = {})
  var r = this.resolve((0, n.default)({}, t, { value: e })),
      A = r._cast(e, t)
  if (void 0 !== e && !1 !== t.assert && !0 !== r.isType(A)) {
    var o = (0, p.default)(e),
        i = (0, p.default)(A)
    throw new TypeError(
      'The value of `' +
      (t.path || 'field') +
      ' could not be cast to a value that satisfies the schema type: '' +
      r._type +
      '

  attempted value: `' +
      o +
      '

  result of cast: `' + i + ')
    }
  }
  return A
},
_cast: function (e) {
  var t = this,
      r =
      void 0 === e
        ? e
        : this.transforms.reduce(function (r, A) {
            return A.call(t, r, e)
          }, e)
  return (
    void 0 === r &&
    (0, o.default)(this, '_default') &&
    (r = this.default()),
    r
  )
},
_validate: function (e, t) {
  var r = this
  void 0 === t && (t = {})
  var A = e,
      o = null !== t.originalValue ? t.originalValue : e,
      i = this._option('strict', t),
      s = this._option('abortEarly', t),
      a = t.sync,
      c = t.path,
      l = this._label
  i || (A = this._cast(A, (0, n.default)({ assert: !1 }, t)))
```javascript
var u = {
  value: A,
  path: c,
  schema: this,
  options: t,
  label: l,
  originalValue: o,
  sync: a,
},
h = []
return (
  this._typeError && h.push(this._typeError(u)),
  this._whitelistError && h.push(this._whitelistError(u)),
  this._blacklistError && h.push(this._blacklistError(u)),
  (0, g.default)({
    validations: h,
    endEarly: s,
    value: A,
    path: c,
    sync: a,
  }).then(function (e) {
    return (0, g.default)({
      path: c,
      sync: a,
      value: e,
      endEarly: s,
      validations: r.tests.map(function (e) {
        return e(u)
      }),
    })
  })
},
validate: function (e, t) {
  return (void 0 === t && (t = {}),
    this.resolve((0, n.default)({}, t, { value: e }))._validate( e,
    t,
  )
},
validateSync: function (e, t) {
  var r, A
  if (void 0 === t && (t = {}),
    this.resolve((0, n.default)({}, t, { value: e })),
    _validate(e, (0, n.default)({}, t, { sync: !0 })))
```
 then(function (e) {
  return (r = e)
 })
 .catch(function (e) {
  return (A = e)
 }),
 A)
)
 throw A
 return r
},
isValid: function (e, t) {
return this.validate(e, t)
 .then(function () {
  return !0
 })
 .catch(function (e) {
  if ('ValidationError' === e.name) return !1
  throw e
 })
},
isValidSync: function (e, t) {
try {
  return this.validateSync(e, t), !0
} catch (e) {
  if ('ValidationError' === e.name) return !1
  throw e
}
},
getDefault: function (e) {
return void 0 === e && (e = {}), this.resolve(e).default()
},
default: function (e) {
if (0 === arguments.length) {
  var t = (0, o.default)(this, '_default')
? this._default
  : this._defaultDefault
  return 'function' === typeof t
? t.call(this)
  : (0, i.default)(t)
}
 var r = this.clone()
 return (r._default = e), r
},
strict: function (e) {
 void 0 === e && (e = !0)
 var t = this.clone()
 return (t._options.strict = e), t
}
_isPresent: function (e) {
    return null !== e
},
required: function (e) {
    return (void 0 === e && (e = a.mixed.required),
    this.test(
        message: e,
        name: 'required',
        exclusive: !0,
        test: function (e) {
            return this.schema._isPresent(e)
        },
    )
},
notRequired: function () {
    var e = this.clone()
    return (e.tests = e.tests.filter(function (e) {
        return 'required' !== e.OPTIONS.name
    })),
    e
},
nullable: function (e) {
    void 0 === e && (e = !0)
    var t = this.clone()
    return (t._nullable = e), t
},
transform: function (e) {
    var t = this.clone()
    return t.transforms.push(e), t
},
test: function () {
    var e
    if (
        (void 0 ===
        (e = 1 === arguments.length
            ? 'function' ===
            typeof (arguments.length <= 0 ? void 0 : arguments[0])
            ? [
                test:
                arguments.length <= 0 ? void 0 : arguments[0],
            ]
            : arguments.length <= 0
        )
    )
}
void 0
  : arguments[0]
  : 2 === arguments.length
? {
  name: arguments.length <= 0 ? void 0 : arguments[0],
  test: arguments.length <= 1 ? void 0 : arguments[1],
}
  : {
  name: arguments.length <= 0 ? void 0 : arguments[0],
  message:
    arguments.length <= 1 ? void 0 : arguments[1],
  test: arguments.length <= 2 ? void 0 : arguments[2],
}).message && (e.message = a.mixed.default),
'function' !== typeof e.test)
) throw new TypeError('test is a required parameters')
var t = this.clone(),
  r = (0, h.default)(e),
A = e.exclusive || (e.name && !0 === t._exclusive[e.name])
if (e.exclusive && !e.name)
  throw new TypeError('Exclusive tests must provide a unique `name` identifying the test',
)
return (t._exclusive[e.name] = !!e.exclusive),
(t.tests = t.tests.filter(function (t) {
  if (t.OPTIONS.name === e.name) {
    if (A) return !1
    if (t.OPTIONS.test === r.OPTIONS.test) return !1
  }
  return !0
}),
  t.tests.push(r),
  t
),
},
when: function (e, t) {
  l === arguments.length && ((t = e), (e = '.'))
var r = this.clone(),
  A = [].concat(e).map(function (e) {
    return new d.default(e)
})
return (A.forEach(function (e) {
  e.isSibling && r._deps.push(e.key)
}),
  r._conditions.push(new c.default(A, t)),
  r
typeError: function (e) {
  var t = this.clone()
  return (t._typeError = (0, h.default)({
    message: e,
    name: 'typeError',
    test: function (e) {
      return (!void 0 !== e && !this.schema.isType(e)) ||
        this.createError({
          params: [{ type: this.schema._type },
        ]}),
      },
    },
  {)),
  t,
},
},
oneOf: function (e, t) {
  void 0 === t && (t = a.mixed.oneOf)
  var r = this.clone()
  return (e.forEach(function (e) {
    r._whitelist.add(e), r._blacklist.delete(e)
  })),
  (r._whitelistError = (0, h.default)({
    message: t,
    name: 'oneOf',
    test: function (e) {
      if (void 0 === e) return !0
      var t = this.schema._whitelist
      return (!t.has(e, this.resolve)) ||
        this.createError({
          params: [{ values: t.toArray().join(' , ') },
        ]})
    },
  })),
  r,
},
},
notOneOf: function (e, t) {
  void 0 === t && (t = a.mixed.notOneOf)
  var r = this.clone()
  return (}
e.forEach(function (e) {
  r._blacklist.add(e), r._whitelist.delete(e)
}),
(r._blacklistError = (0, h.default)({
  message: t,
  name: 'notOneOf',
  test: function (e) {
    var t = this.schema._blacklist
    return (t.has(e, this.resolve) ||
      this.createError({
        params: { values: t.toArray().join(', ') },
      })
    )
  },
})),

strip: function (e) {
  void 0 === e && (e = !0)
  var t = this.clone()
  return (t._strip = e), t
},
_option: function (e, t) {
  return (0, o.default)(t, e) ? t[e] : this._options[e]
},

describe: function () {
  var e = this.clone()
  return {
    type: e._type,
    meta: e._meta,
    label: e._label,
    tests: e.tests
  }.
.map(function (e) {
    return { name: e.OPTIONS.name, params: e.OPTIONS.params } })
  ).filter(function (e, t, r) {
    return (r.findIndex(function (t) {
      return t.name === e.name
    }) === t)
  }),
},
},
B = ['validate', 'validateSync'],

y = function () { 
  var e = B[m]
  E[e + 'At'] = function (t, r, A) {
    void 0 === A && (A = [ ])
    var o = (0, C.getIn)(this, t, r, A.context),
      i = o.parent,
      s = o.parentPath
    return o.schema[e][
      i && i[s],
      (0, n.default)({ }, A, { parent: i, path: t })),
    }
  },
  m = 0;
  m < B.length;
  m++
})(function () {
  y()
  for (var w = ['equals', 'is'], Q = 0; Q < w.length; Q++) {
    E[w[Q]] = E.oneOf
  }
  for (var D = ['not', 'nope'], b = 0; b < D.length; b++) {
    E[D[b]] = E.notOneOf
  }
});(E.optional = E.notRequired), (e.exports = t.default)
}
return this.isType(t) ? t : parseFloat(t)
})
})
)
:(0, n.default)(c, o.default, {
_typeCheck: function (e) {
  return (e instanceof Number && (e = e.valueOf()),
    'number' == typeof e &&
  !(function (e) {
    return e !== +e
  })(e)
  ),
},
min: function (e, t) {
  return (void 0 === t && (t = i.number.min),
    this.test({
      message: t,
      name: 'min',
      exclusive: !0,
      params: { min: e },
      test: function (t) {
        return (0, s.default)(t) || t >= this.resolve(e)
      },
    })
  ),
},
max: function (e, t) {
  return (void 0 === t && (t = i.number.max),
    this.test({
      message: t,
      name: 'max',
      exclusive: !0,
      params: { max: e },
      test: function (t) {
        return (0, s.default)(t) || t <= this.resolve(e)
      },
    })
  ),
},
lessThan: function (e, t) {
  return (void 0 === t && (t = i.number.lessThan),
    this.test({
      message: t,
      name: 'max',
      exclusive: !0,
      params: { max: e },
      test: function (t) {
        return (0, s.default)(t) || t <= this.resolve(e)
      },
    })
  ),
},
exclusive: !0,
params: { less: e },
test: function (t) {
  return (0, s.default)(t) || t < this.resolve(e)
},
}
)
)
),
moreThan: function (e, t) {
return (  
void 0 === t && (t = i.number.moreThan),
this.test(
  message: t,  
  name: 'min',  
  exclusive: !0,  
  params: { more: e },  
  test: function (t) {
    return (0, s.default)(t) || t > this.resolve(e)
  },
  )
  )
  ),
positive: function (e) {
  return void 0 === e && (e = i.number.positive), this.moreThan(0, e)
},
negative: function (e) {
  return void 0 === e && (e = i.number.negative), this.lessThan(0, e)
},
integer: function (e) {
  return (  
  void 0 === e && (e = i.number.integer),
  this.test({ name: 'integer', message: e, test: a })
  )
  ),
truncate: function () {
  return this.transform(function (e) {
    return (0, s.default)(e ? e : 0 | e
  })
  ),
),
round: function (e) {
  var t = ['ceil', 'floor', 'round', 'trunc']
  if ('trunc' === (e = (e && e.toLowerCase()) || 'round'))
    return this.truncate()
  if (-1 === t.indexOf(e.toLowerCase()))
    throw new TypeError('Only valid options for round() are: ' + t.join(', ')),
  )
  return this.transform(function (t) {

return (0, s.default)(t ? Math[e](t)
})
},
}),
(e.exports = t.default)
},
51727: (e, t, r) => {
'use strict'
var A = r(19228),
n = r(60087)
:(t.__esModule = !0), (t.default = w)
var o = n(r(62407)),
i = n(r(72912)),
s = n(r(15215)),
a = n(r(36494)),
c = n(r(89170)),
g = n(r(5253)),
l = n(r(89612)),
u = r(79588),
h = n(r(16434)),
p = r(63802),
d = n(r(18417)),
C = n(r(23316)),
f = n(r(31490)),
l = n(r(7045)),
E = A(r(80180))
function B() {
var e = (0, o.default)(['', '.', ''])
return (B = function () {
    return e
}),
e
}
}
function y() {
var e = (0, o.default)(['', '.', ''])
return (y = function () {
    return e
}),
e
}
}
var m = function (e) {
    return ![object Object]' === Object.prototype.toString.call(e)
}
}
function w(e) {
var t = this
if (!((this instanceof w)) return new w(e)

h.default.call(this, {
  type: 'object',
  default: function () {
    var e = this
    if (this._nodes.length) {
      var t = []
      return (this._nodes.forEach(function (r) {
        t[r] = e.fields[r].default ? e.fields[r].default() : void 0
      }),
      t)
    }
  },
},
)

(this.fields = Object.create(null)),
(this._nodes = []),
(this._excludedEdges = []),
this.withMutation(function () {
  t.transform(function (e) {
    if ('string' === typeof e)
      try {
        e = JSON.parse(e)
      } catch (t) {
        e = null
      }
      return this.isType(e) ? e : null
    },
    e && t.shape(e)
  })

):0, f.default)(w, h.default,
_typeCheck: function (e) {
  return m(e) || 'function' === typeof e
},
_cast: function (e, t) {
  var r = this
  void 0 === t && (t = {})
  var A = h.default.prototype._cast.call(this, e, t)
  if (void 0 === A) return this.default()
  if (!this._typeCheck(A)) return A
  var n = this.fields,
  o = !0 === this._option('stripUnknown', t),
  a = this._nodes.concat(
  Object.keys(A).filter(function (e) {
    return -1 === r._nodes.indexOf(e)
  }))
return e
} 
} 

var c = n._nodes.map(function (r) {
  var A = (0, I.default)(B(), t.path, r),
    o = n.fields[r],
    s = (0, i.default)({}, t, {
      path: A,
      parent: e,
      originalValue: a[r],
    })
  return o && o.validate
    ? ((s.strict = !0), o.validate(e[r], s))
    : Promise.resolve(!0)
})
return (0,
E.default)(( sync: o, validations: c, value: e, errors: s, endEarly: r, path: t.path, sort: (0,
C.default)(n.fields) )
    ))
}
)
},
},
concat: function (e) {
  var t = h.default.prototype.concat.call(this, e)
  return (t._nodes = (0, d.default)(t.fields, t._excludedEdges)), t
},
shape: function (e, t) {
  void 0 === t && (t = [])
  var r = this.clone(),
    A = (0, i.default)(r.fields, e)
  if (((r.fields = A), t.length)) {
    Array.isArray(t[0]) || (t = [t])
    var n = t.map(function (e) {
      return e[0] + '-' + e[1]
    })
    r._excludedEdges = r._excludedEdges.concat(n)
  }
  return (r._nodes = (0, d.default)(A, r._excludedEdges)), r
},
from: function (e, t, r) {
  var A = (0, u.getter)(e, !0)
  return this.transform(function (n) {
    if (null == n) return n
    var o = n
    return (0, s.default)(n, e) &
      ((o = (0, i.default)({}, n)),
        r || delete o[e],
        (o[t] = A(n)))
      })
    })
    }
o
}
})
},

noUnknown: function (e, t) {
    void 0 === e && (e = !0),
    void 0 === t && (t = p.object.noUnknown),
    'string' == typeof e && ((t = e), (e = !0))
    var r = this.test({
        name: 'noUnknown',
        exclusive: !0,
        message: t,
        test: function (t) {
            return (null == t ||
                !e ||
                0 ===
                (function (e, t) {
                    var r = Object.keys(e.fields)
                    return Object.keys(t).filter(function (e) {
                        return -1 === r.indexOf(e)
                    })
                })(this.schema, t).length
            )
        },
    }),
    return (r._options.stripUnknown = e), r
},

unknown: function (e, t) {
    return (void 0 === e && (e = !0),
    void 0 === t && (t = p.object.noUnknown),
    this.noUnknown('e, t)
    ),
},

transformKeys: function (e) {
    return this.transform(function (t) {
        return (t &&
            (0, g.default)(t, function (t, r) {
                return e(r)
            })
        )
    })
},

},

camelCase: function () {
    return this.transformKeys(c.default)
},
exclusive: !0,
params: { length: e },
test: function (t) {
    return (0, s.default)(t) || t.length === this.resolve(e)
},
}
)
}
},
min: function (e, t) {
return ( 
    void 0 === t && (t = i.string.min),
    this.test{
        message: t,
        name: 'min',
        exclusive: !0,
        params: { min: e },
        test: function (t) {
            return (0, s.default)(t) || t.length >= this.resolve(e)
        },
    })
}
),
max: function (e, t) {
return ( 
    void 0 === t && (t = i.string.max),
    this.test{
        name: 'max',
        exclusive: !0,
        message: t,
        params: { max: e },
        test: function (t) {
            return (0, s.default)(t) || t.length <= this.resolve(e)
        },
    })
}
),
matches: function (e, t) {
var r,
A = !1
return ( 
    t &&
    (t.message || t.hasOwnProperty('excludeEmptyString')
        ? ((A = t.excludeEmptyString), (r = t.message))
        : (r = t)),
    this.test{
        message: r || i.string.matches,
        params: { regex: e },
        test: function (t) {

return (0, s.default)(t) || ("Node1" == t && A) || e.test(t)
},
)
)
),
email: function (e) {
return (  
void 0 == e && (e = i.string.email),
this.matches(a, { message: e, excludeEmptyString: !0 })
)
),
url: function (e) {
return (  
void 0 == e && (e = i.string.url),
this.matches(c, { message: e, excludeEmptyString: !0 })
)
),
ensure: function () {
return this.default("").transform(function (e) {
  return null == e ? "" : e
})
),
trim: function (e) {
return (  
void 0 == e && (e = i.string.trim),
this.transform(function (e) {
  return null != e ? e.trim() : e
}).test({ message: e, name: 'trim', test: g })
)
),
lowercase: function (e) {
return (  
void 0 == e && (e = i.string.lowercase),
this.transform(function (e) {
  return (0, s.default)(e) ? e : e.toLowerCase()
}).test({
    message: e,
    name: 'string_case',
    exclusive: !0,
    test: function (e) {
      return (0, s.default)(e) || e == e.toLowerCase()
    },
  })
})
),
uppercase: function (e) {
return (  
void 0 == e && (e = i.string.uppercase),

this.transform(function (e) {
    return (0, s.default)(e) ? e.toUpperCase()
}).test({
    message: e,
    name: 'string_case',
    exclusive: '0',
    test: function (e) {
        return (0, s.default)(e) || e === e.toUpperCase()
    },
})
}
);
(e.exports = t.default)
};
54107: (e, t, r) => {
    'use strict'
    var A = r(60087)
    ;(t.__esModule = !0),
    (t.createErrorFactory = l),
    (t.default = function (e) {
        var t = e.name,
            r = e.message,
            A = e.test,
            i = e.params
        function g(e) {
            var g = e.value,
                u = e.path,
                h = e.label,
                p = e.options,
                d = e.originalValue,
                C = e.sync,
                f = (0, n.default)(e, [
                    'value',
                    'path',
                    'label',
                    'options',
                    'originalValue',
                    'sync',
                ],
                I = p.parent,
                E = function (e) {
                    return a.default.isRef(e)
                        ? e.getValue({ value: g, parent: I, context: p.context })
                        : e
                },
                B = l({
                    message: r,
                })
            }
```javascript
path: u,
value: g,
originalValue: d,
params: i,
label: h,
resolve: E,
name: t,
}

y = (0, o.default)(
{
    path: u,
    parent: I,
    type: t,
    createError: B,
    resolve: E,
    options: p,
},
    f,
)
return (function (e, t, r, A) {
    var n = e.call(t, r)
    if (!A) return Promise.resolve(n)
    if (
        ((o = n),
        o &&
        'function' == typeof o.then &&
        'function' == typeof o.catch)
    )
    throw new Error(
        'Validation test of type: "' +
        t.type +
        " returned a Promise during a synchronous validate. This test will finish after the validate call has
    returned',
)
    var o
    return c.SynchronousPromise.resolve(n)
})(A, y, g, C).then(function (e) {
    if (s.default.isError(e)) throw e
    if (!e) throw B()
}
)
return (g.OPTIONS = e), g
```

var n = A(r(74943)),
o = A(r(72912)),
i = A(r(89612)),
s = A(r(40828)),
a = A(r(95814)),
```
c = r(93255),
g = s.default.formatError

function l(e) {
    var t = e.value,
    r = e.label,
    A = e.resolve,
    a = e.originalValue,
    c = (0, n.default)(e, [
        'value',
        'label',
        'resolve',
        'originalValue',
    ]);}
return function (e) {
    var n = void 0 === e ? {} : e,
    l = n.path,
    u = void 0 === l ? c.path : l,
    h = n.message,
    p = void 0 === h ? c.message : h,
    d = n.type,
    C = void 0 === d ? c.name : d,
    f = n.params
    return (f = (0, o.default)(
        { path: u, value: t, originalValue: a, label: r },
        (function (e, t, r) {
            return (0, i.default)((0, o.default)({}, e, t), r)
        })(c.params, f, A),
    ),
    (0, o.default)(new s.default(g(p, f), t, u, C), { params: f })),
    )
}
}
31490: (e, t, r) => {
    'use strict'
    var A = r(60087)
    :(t.__esModule = !0),
    t.default = function (e, t, r) {
        :e.prototype = Object.create(t.prototype, {
            constructor: {
                value: e,
                enumerable: !1,
                writable: !0,
                configurable: !0,
            },
        })),
        (0, n.default)(e.prototype, r)
71665: (e, t) => {
  'use strict'
  ;(t.__esModule = !0), (t.default = void 0)
  ;(t.default = function (e) {
    return null == e
  }),
  (e.exports = t.default)
},
11050: (e, t) => {
  'use strict'
  ;(t.__esModule = !0), (t.default = void 0)
  ;(t.default = function (e) {
    return e && e.__isYupSchema__
  }),
  (e.exports = t.default)
},
76813: (e, t) => {
  'use strict'
  ;(t.__esModule = !0),
  (t.default = function (e) {
    var t, A,
    n = [1, 4, 5, 6, 7, 10, 11],
    o = 0
    if ((A = r.exec(e))) {
      for (var i, s = 0; (i = n[s]); ++s) A[i] = +A[i] || 0
        void 0 !== A[9] &&
      )))
})
```javascript
var n = A(r(15215)),
o = A(r(11050)),
i = function (e) {
    return '[object Object]' === Object.prototype.toString.call(e)
}
e.exports = t.default
},
21043: (e, t) => {
    'use strict'
    !(t.__esModule = !0),
    (t.default = function (e, t) {
        var r = s(e, t)
        return null !== r
            ? r
            : JSON.stringify
                (e,
                 function (e, r) {
                     var A = s(this[e], t)
                     return null !== A ? A : r
                 },
                 2,
                 )
    })
}
var r = Object.prototype.toString,
    A = Error.prototype.toString,
    n = RegExp.prototype.toString,
o =
'undefined' != typeof Symbol
    ? Symbol.prototype.toString
    : function () {
        return ''
    },
i = /^Symbol\((.*)\)(.*)$/

function s(e, t) {
    if ((void 0 === t && (t = !1), null == e || !0 === e || !1 === e))
        return '' + e
    var s = typeof e
    if ('number' === s)
        return (function (e) {
            return e != +e ? 'NaN' : 0 === e && 1 / e < 0 ? '-0' : '' + e
        })(e)
    if ('string' === s) return t ? '' + e + '' : e
    if ('function' === s)
        return '[Function ' + (e.name || 'anonymous') + ']'
    if ('symbol' === s) return o.toString().replace(i, 'Symbol(' + t + ')')
    var a = r.call(e).slice(8, -1)
    return 'Date' === a
        ? isNaN(e.getTime())
        : e
```
throw new Error(
  'The schema does not contain the path: ' +
  t +
  '. (failed at: ' +
  a +
  ' which is a type: "' +
  e._type +
  '\')',
);
:e = e.fields[l],
  (i = r),
  (r = r && r[l]),
  (s = l),
  (a = c ? '[' + n + ']' : '.' + n)
});

{ schema: e, parent: i, parentPath: s })
: { parent: i, parentPath: t, schema: e }
)
)

var s = function (e, t, r, A) {
  return i(e, t, r, A).schema
}

t.default = s,

80180: (e, t, r) => {
  'use strict'
  var A = r(60087)
  :(t.__esModule = !0),
  (t.propagateErrors = function (e, t) {
    return e
  ? null
  : function (e) {
    return t.push(e), e.value
  }
}),
  (t.settled = a),
  (t.collectErrors = c),
  (t.default = function (e) {
    var t = e.endEarly,
    r = (0, n.default)(e, ['endEarly'])
    return t
  ? (function (e, t, r) {
      return s(r)
    .all(e)
.catch(function (e) {
    throw ('ValidationError' === e.name && (e.value = t), e)
})
.then(function () {
    return t
})
})(r.validations, r.value, r.sync)
: c(r)
})
var n = A(r(74943)),
o = r(93255),
i = A(r(40828)),
s = function (e) {
    return e ? o.SynchronousPromise : Promise
}
function a(e, t) {
    var r = s(t)
    return r.all(
        e.map(function (e) {
            return r.resolve(e).then(
                function (e) {
                    return { fulfilled: !!0, value: e }
                },
                function (e) {
                    return { fulfilled: !!1, value: e }
                },
                )
            ),
        )
    )
}
function c(e) {
    var t = e.validations,
        r = e.value,
        A = e.path,
        n = e.sync,
        o = e.errors,
        s = e.sort
    return (o = (function (e) {
        return (void 0 === e && (e = []),
        e.inner && e.inner.length ? e.inner : []).concat(e)
    })
        )(o),
a(t, n).then(function (e) {
    var t = e
    .filter(function (e) {
        return !e.fulfilled
    })
    )
})
}
```javascript
function r(e, t) {
  var r = 1 / 0
  return e.some(function (e, A) {
    if (-1 !== t.path.indexOf(e)) return (r = A), !0
  }),
  r
}

:arity(module.exports = !0),
  (t.default = function (e) {
    var t = Object.keys(e)
    return function (e, A) {
      return r(t, e) - r(t, A)
    }
  }),
  (e.exports = t.default)
},

18417: (e, t, r) => {  
  'use strict'
  var A = r(60087)
  :arity(module.exports = !0),
  (t.default = function (e, t) {
    void 0 !== t && (t = [])
    var r = [],
    A = [],
    function c(e, n) {
      var o = (0, i.split)(e)[0]
      ~A.indexOf(o) || A.push(o),
      ~t.indexOf(n + ' ' + o) || r.push([n, o])
    }
    for (var g in e)
      if ((0, n.default)(e, g)) {
```
return '[Emscripten Module object]'
})
var h = o.print || console.log.bind(console),
p = o.printErr || console.warn.bind(console)
for (A in i) i.hasOwnProperty(A) && (o[A] = i[A])
;i = null),
o.arguments && (l = o.arguments),
o.thisProgram && o.thisProgram,
o.quit && o.quit
var d, C
o.wasmBinary && (d = o.wasmBinary),
o.noExitRuntime && o.noExitRuntime,
'object' != typeof WebAssembly && _('no native wasm support detected')
var f = new WebAssembly.Table({
    initial: 31,
    maximum: 31,
    element: 'anyfunc',
}),
I = !1
function E(e, t) {
e || _('Assertion failed: ' + t)
}
function B(e) {
var t = o[\'_' + e]
return (E(t,
    'Cannot call unknown function ' +
    e +
    ', make sure it is exported',
),
t)
}
function y(e, t, r, A, n) {
var o = {
    string: function (e) {
        var t = 0
        if (null != e && 0 !== e) {
            var r = 1 + (e.length << 2)
            b(e, (t = xe(r)), r)
        }
        return t
    },
    array: function (e) {
        var t = xe(e.length)
        return (function (e, t) {

N.set(e, t)
)\)(e, t),
t}
},
}
var i = B(e),
s = [],
a = 0
if (A)
for (var c = 0; c < A.length; c++) {
var g = o[r[c]]
g ? (0 === a && (a = Me()), (s[c] = g(A[c]))) : (s[c] = A[c])
}
var l = i.apply(null, s)
return (l = (function (e) {
return 'string' === t ? Q(e) : 'boolean' === t ? Boolean(e) : e
})(l)),
0 !== a && Re(a),
1
})
}
var m =
'undefined' != typeof TextDecoder ? new TextDecoder('utf8') : void 0
function w(e, t, r) {
for (var A = t + r, n = t; e[n] && !(n >= A); ) ++n
if (n - t > 16 && e.subarray && m) return m.decode(e.subarray(t, n))
for (var o = ''; t < n; ) {
var i = e[t++]
if (128 & i) {
var s = 63 & e[t++]
if (192 != (224 & i)) {
var a = 63 & e[t++]
if (224 == (240 & i)
? ((15 & i) << 12) | (s << 6) | a
: ((7 & i) << 18)
| (s << 12)
| (a << 6)
| (63 & e[t++])) < 65536
)
o += String.fromCharCode(i)
else {
var c = i - 65536
o += String.fromCharCode(55296 | (c >> 10),
...
function b(e, t, r) {
    return D(e, F, t, r)
}

function v(e) {
    for (var t = 0, r = 0; r < e.length; ++r) {
        var A = e.charCodeAt(r)
        A >= 55296 &
        A <= 57343 &
        (A = (65536 + ((1023 & A) << 10)) | (1023 & e.charCodeAt(++r))),
        A <= 127 ? t += 1 : (t += A <= 2047 ? 2 : A <= 65535 ? 3 : 4)
    }
}

function D(e, t, r, A) {
    if (!A) return 0
    for (var n = r, o = r + A - 1, i = 0; i < e.length; ++i) {
        var s = e.charCodeAt(i)
        if (s >= 55296 && s <= 57343)
            s = (65536 + ((1023 & s) << 10)) | (1023 & e.charCodeAt(++i))
        if (s <= 127) {
            if (r >= o) break
            t[r++] = s
        } else if (s <= 2047) {
            if (r + 1 >= o) break
            t[r++] = 192 | (s >> 6),
            t[r++] = 128 | (63 & s)
        } else if (s <= 65535) {
            if (r + 2 >= o) break
            t[r++] = 224 | (s >> 12),
            t[r++] = 128 | ((s >> 6) & 63),
            t[r++] = 128 | (63 & s)
        } else {
            if (r + 3 >= o) break
            t[r++] = 240 | (s >> 18),
            t[r++] = 128 | ((s >> 12) & 63),
            t[r++] = 128 | ((s >> 6) & 63),
            t[r++] = 128 | (63 & s)
        }
    }
    return t[r] = 0, r - n
}

function Q(e, t) {
    return e ? w(F, e, t) : ""
```javascript
function S(e) {
    var t = v(e) + 1,
        r = Le(t)
    return r && D(e, N, r, t), r
}

var k, N, F, K, M, R, x

function L(e) {
    (k = e),
    (o.HEAP8 = N = new Int8Array(e)),
    (o.HEAP16 = K = new Int16Array(e)),
    (o.HEAP32 = M = new Int32Array(e)),
    (o.HEAPU8 = F = new Uint8Array(e)),
    (o.HEAPU16 = new Uint16Array(e)),
    (o.HEAPU32 = new Uint32Array(e)),
    (o.HEAPF32 = R = new Float32Array(e)),
    (o.HEAPF64 = x = new Float64Array(e))
}

var P = o.INITIAL_MEMORY || 16777216

!(C = o.wasmMemory
    ? o.wasmMemory
    : new WebAssembly.Memory({ initial: P / 65536, maximum: 32768 }))) &&
    (k = C.buffer),
    (P = k.byteLength),
    L(k)

var O = [],
    U = [],
    T = [],
    j = []

var Y = Math.abs,
    G = Math.ceil,
    H = Math.floor,
    J = Math.min,
    q = 0,
    z = null,
    W = null

function X(e) {
    q++, o.monitorRunDependencies && o.monitorRunDependencies(q)
}

function V(e) {
    if (q--,
        o.monitorRunDependencies && o.monitorRunDependencies(q),
        0 == q && (null !== z && (clearInterval(z), (z = null)), W))
    ) {
        var t = W
    }
}````
```javascript
function Ae(e) {
    for (; e.length > 0; ) {
        var t = e.shift()
        if ('function' !== typeof t) {
            var r = t.func
            'number' === typeof r
                ? void 0 === t.arg
                ? f.get(r)()
                : f.get(r)(t.arg)
                : r(void 0 === t.arg ? null : t.arg)
        } else t(o)
    }
}

function ne() {
    var e = (function () {
        var e = new Error()
        if (!e.stack) {
            try {
                throw new Error()
            } catch (t) {
                e = t
            }
            if (!e.stack) return '(no stack trace available)'
        }
        return e.stack.toString()
    })()
    return (o.extraStackTrace && (e += '
' + o.extraStackTrace()),
    e.replace(/_Z\[\w\d_]+/g, function (e) {
        return e === e ? e : e + ' [' + e + ']
    }))
}

function oe(e, t) {
    var r = new Date(1e3 * M[t >> 2])
    (M[t >> 2] = r.getUTCSeconds()),
    (M[(t + 4) >> 2] = r.getUTCMilliseconds()),
    (M[(t + 8) >> 2] = r.getUTCMinutes()),
    (M[(t + 12) >> 2] = r.getUTCHours()),
    (M[(t + 16) >> 2] = r.getUTCDate()),
    (M[(t + 20) >> 2] = r.getUTCMonth()),
    (M[(t + 24) >> 2] = r.getUTCFullYear() - 1900),
    (M[(t + 28) >> 2] = r.getUTCDay()),
    (M[(t + 32) >> 2] = 0),
    var A = Date.UTC(r.getUTCFullYear(), 0, 1, 0, 0, 0, 0),
```

---

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---

AAQciaAQsJHwAAAGRNAAADAEHkmgELjAEt9FFYz4yxwEb2tcsPMQPHBtMLRd/SB4f4ua2FkpUGhiauwNvGNS7NIuD/Ud7QrpaNW8brkqPxBg/3Zb+GKei8tdYHHHw0JXgN2LHD3QKUs29XQaiqdN+gWGQDSsEFPOur18YBBWx420ohqMsMl9D8OIQgTXFl13///////////w==

---

function Ae(e) {
    for (; e.length > 0; ) {
        var t = e.shift()
        if ('function' !== typeof t) {
            var r = t.func
            'number' === typeof r
                ? void 0 === t.arg
                ? f.get(r)()
                : f.get(r)(t.arg)
                : r(void 0 === t.arg ? null : t.arg)
        } else t(o)
    }
}

function ne() {
    var e = (function () {
        var e = new Error()
        if (!e.stack) {
            try {
                throw new Error()
            } catch (t) {
                e = t
            }
            if (!e.stack) return '(no stack trace available)'
        }
        return e.stack.toString()
    })()
    return (o.extraStackTrace && (e += '
' + o.extraStackTrace()),
    e.replace(/_Z\[\w\d_]+/g, function (e) {
        return e === e ? e : e + ' [' + e + ']
    }))
}

function oe(e, t) {
    var r = new Date(1e3 * M[t >> 2])
    (M[t >> 2] = r.getUTCSeconds()),
    (M[(t + 4) >> 2] = r.getUTCMilliseconds()),
    (M[(t + 8) >> 2] = r.getUTCMinutes()),
    (M[(t + 12) >> 2] = r.getUTCHours()),
    (M[(t + 16) >> 2] = r.getUTCDate()),
    (M[(t + 20) >> 2] = r.getUTCMonth()),
    (M[(t + 24) >> 2] = r.getUTCFullYear() - 1900),
    (M[(t + 28) >> 2] = r.getUTCDay()),
    (M[(t + 32) >> 2] = 0),
    var A = Date.UTC(r.getUTCFullYear(), 0, 1, 0, 0, 0, 0),
```
n = ((r.getTime() - A) / 864e5) | 0
return (
    (M[(t + 28) >> 2] = n),
    oe.GMTP || (oe.GMTP = S('GMT')),
    (M[(t + 40) >> 2] = oe.GMTP),
  )
}
Z(re) || (($ = re), (re = o.locateFile ? o.locateFile($, u) : u + $)),
U.push(
  func: function () {
    Se()
  },
)
var ie = {
  splitPath: function (e) {
    return /^\/*(\/[\s\S]*)\((?\:\[1,2]\][^\^\^]*)(\[^\^\^]+|[^\^\^])\[^\^\^]*\)?$/.exec(e)
      .slice(1)
  },
  normalizeArray: function (e, t) {
    for (var r = 0, A = e.length - 1; A >= 0; A--) {
      var n = e[A]
      '.' === n
        ? e.splice(A, 1)
        : '..' === n
        ? (e.splice(A, 1), r++)
        : r && (e.splice(A, 1), r--)
    }
    if (t) for (; r; r--) e.unshift('..
    return e
  },
  normalize: function (e) {
    var t = '/' === e.charAt(0),
    r = '/' === e.substr(-1)
    return (e = ie
      .normalizeArray(
        e.split('/'), filter(function (e) {
          return !!e
        }
      ),
    ),
    !,
  )
    .join('/')
  t
  )
  (e = ';
  e && r && (e += '/'),
  (t ? '/' : ':') + e


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```javascript
open = 'open' in require ? require('os') : {}; dirname = function(e) {
    var t = ie.splitPath(e),
        r = t[0],
        A = t[1]
    return r || A ? (A && (A = A.substr(0, A.length - 1)), r + A) : '.'
},
basename = function(e) {
    if ('/' === e) return '/'
    var t = (e = (e = ie.normalize(e)).replace(/\S*/g, '')),
        r = t.lastIndexOf('/', -1),
        i = t.lastIndexOf('-', -1)
    return -1 === t ? e : e.substr(r + 1)
},
extname = function(e) {
    return ie.splitPath(e)[3]
},
join = function() {
    var e = Array.prototype.slice.call(arguments, 0)
    return ie.normalize(e.join('/'))
},
join2 = function(e, t) {
    return ie.normalize(e + '/' + t)
},
function se(e) {
    return (M[ke() >> 2] = e), e
}
var ae = {
    resolve: function() {
        for (var e = '', t = !1, r = arguments.length - 1;
            r >= -1 && !t;
            r-- ) {
            var A = r >= 0 ? arguments[r] : pe.cwd()
            if ('string' !== typeof A)
                throw new TypeError('Arguments to path.resolve must be strings'.
            )
            if (!A) return ''
            e = e + r + e,
            t = t.length - 1
        }
        return (t ? '/' : '') +
        (e = ie.normalizeArray(e)
        )
```
e.split('/').filter(function (e) {
    return !!e
}),
!t,
)
.join('/') || '.'
},
relative: function (e, t) {
    function r(e) {
        for (var t = 0; t < e.length && e[t] !== e[t++];)
            for (var r = e.length - 1; r >= 0 && e[r] !== e[r--];)
                return t > r ? [] : e.slice(t, r - t + 1)
    }
    (e = ae.resolve(e).substr(1)), (t = ae.resolve(t).substr(1))
    for (var A = r(e.split('/')), n = r(t.split('/')), o = Math.min(A.length, n.length), i = o, s = 0; s < o; s++)
        if (A[s] !== n[s]) {
            i = s
            break
        }
    var a = []
    for (s = i; s < A.length; s++) a.push('..')
    return (a = a.concat(n.slice(i))).join('/')
},
]
}

ce = {
    ttys: [],
    init: function () {},
    shutdown: function () {},
    register: function (e, t) {
        (ce.ttys[e] = { input: [], output: [], ops: t }),
        pe.registerDevice(e, ce.stream_ops)
    },
    stream_ops: {
        open: function (e) {
            var t = ce.ttys[e].node.rdev
            if (!t) throw new pe.ErrnoError(43)
            ;(e.tty = t), (e.seekable = !1)
        },
        close: function (e) {
            ce.ttys[e].input = ce.ttys[e].output = []
        }
    }
}
function e.tty.ops.flush(e.tty)
}
flush: function (e) {
    e.tty.ops.flush(e.tty)
}
read: function (e, t, r, A, n) {
    if (e.tty || !e.tty.ops.get_char) throw new pe.ErrnoError(60)
    for (var o = 0, i = 0; i < A; i++) {
        var s
        try {
            s = e.tty.ops.get_char(e.tty)
        } catch (e) {
            throw new pe.ErrnoError(29)
        }
        if (void 0 === s && 0 === o) throw new pe.ErrnoError(6)
        if (null == s) break
        o++, (t[r + i] = s)
    }
    return o && (e.node.timestamp = Date.now()), o
},
write: function (e, t, r, A, n) {
    if (e.tty || !e.tty.ops.put_char) throw new pe.ErrnoError(60)
    try {
        for (var o = 0; o < A; o++)
            e.tty.ops.put_char(e.tty, t[r + o])
    } catch (e) {
        throw new pe.ErrnoError(29)
    }
    return A && (e.node.timestamp = Date.now()), o
},
default_tty_ops: {
    get_char: function (e) {
        if (!e.input.length) {
            var t = null,
                r = Buffer.alloc ? Buffer.alloc(256) : new Buffer(256),
                A = 0
            try {
                A = c.readSync(process.stdin.fd, r, 0, 256, null)
            } catch (e) {
                if (-1 == e.toString().indexOf('EOF')) throw e
                A = 0
            }
            if (!(t = A > 0 ? r.slice(0, A).toString('utf-8') : null))
                return null
            e.input = we(t, !0)
        }
        return e.input.shift()
},
put_char: function (e, t) {
    null === t || 10 === t
    ? (h(w(e.output, 0)), (e.output = []))
    : 0 !== t && e.output.push(t)
},
flush: function (e) {
    e.output &&
    e.output.length > 0 &&
    (h(w(e.output, 0)), (e.output = []))
},
}
.default_tty1_ops: {
    put_char: function (e, t) {
        null === t || 10 === t
        ? (p(w(e.output, 0)), (e.output = []))
        : 0 !== t && e.output.push(t)
    },
    flush: function (e) {
        e.output &&
        e.output.length > 0 &&
        (p(w(e.output, 0)), (e.output = []))
    },
},
ge = {
    ops_table: null,
    mount: function (e) {
        return ge.createNode(null, '/', 16895, 0)
    },
    createNode: function (e, t, r, A) {
        if (pe.isBlkdev(r) || pe.isFIFO(r)) throw new pe.ErrnoError(63)
        ge.ops_table ||
        (ge.ops_table = {
            dir: {
                getattr: ge.node_ops.getattr,
                setattr: ge.node_ops.setattr,
                lookup: ge.node_ops.lookup,
                mknod: ge.node_ops.mknod,
                rename: ge.node_ops.rename,
                unlink: ge.node_ops.unlink,
                rmdir: ge.node_ops.rmdir,
                readdir: ge.node_ops.readdir,
                symlink: ge.node_ops.symlink,
            },
            stream: { lseek: ge.stream_ops.lseek },
        });
file: {
    node: {
        getattr: ge.node_ops.getattr,
        setattr: ge.node_ops.setattr,
    },
    stream: {
        llseek: ge.stream_ops.llseek,
        read: ge.stream_ops.read,
        write: ge.stream_ops.write,
        allocate: ge.stream_ops.allocate,
        mmap: ge.stream_ops.mmap,
        msync: ge.stream_ops.msync,
    },
},
link: {
    node: {
        getattr: ge.node_ops.getattr,
        setattr: ge.node_ops.setattr,
        readlink: ge.node_ops.readlink,
    },
    stream: {},
},
chrdev: {
    node: {
        getattr: ge.node_ops.getattr,
        setattr: ge.node_ops.setattr,
    },
    stream: pe.chrdev_stream_ops,
},
})
var n = pe.createNode(e, t, r, A)
return (pe.isDirectory(n.mode)
    ? ((n.node_ops = ge.ops_table.dir.node),
        (n.stream_ops = ge.ops_table.dir.stream),
        (n.contents = {}))
    : pe.isFile(n.mode)
    ? ((n.node_ops = ge.ops_table.file.node),
        (n.stream_ops = ge.ops_table.file.stream),
        (n.usedBytes = 0),
        (n.contents = null))
    : pe.isLink(n.mode)
    ? ((n.node_ops = ge.ops_table.link.node),
        (n.stream_ops = ge.ops_table.link.stream))
    : pe.isCharacterDevice(n.mode) &&
    ((n.node_ops = ge.ops_table.chrdev.node),
    (n.stream_ops = ge.ops_table.chrdev.stream)),
    (n.timestamp = Date.now()));
e && (e.contents[t] = n),
}
},
getFileDataAsRegularArray: function (e) {
    if (e.contents && e.contents.subarray) {
        for (var t = [], r = 0; r < e.usedBytes; ++r) 
            t.push(e.contents[r])
        return t
    }
    return e.contents
},
getFileDataAsTypedArray: function (e) {
    return e.contents
},
expandFileStorage: function (e, t) {
    var r = e.contents ? e.contents.length : 0
    if (!(r >= t)) {
        t = Math.max(t, (r * (r < 1048576 ? 2 : 1.125)) >>> 0)),
        0 != r && (t = Math.max(t, 256))
        var A = e.contents
        ;(e.contents = new Uint8Array(t)),
        e.usedBytes > 0 &&
        e.contents.set(A.subarray(0, e.usedBytes), 0)
    }
},
resizeFileStorage: function (e, t) {
    if (e.usedBytes != t) {
        if (0 == t) return (e.contents = null), void (e.usedBytes = 0)
        if (!e.contents || e.contents.subarray) {
            var r = e.contents || (e.contents = []),
            e.usedBytes > 0 &&
            e.contents.set(r.subarray(0, Math.min(t, e.usedBytes))),
            void (e.usedBytes = t)
        }
        if ((e.contents || (e.contents = []), e.contents.length > t))
            e.contents.length = t
        else for (; e.contents.length < t; ) e.contents.push(0)
        e.usedBytes = t
    }
}.
node_ops: {
    getattr: function (e) {
        var t = {}
        return {
            (t.dev = pe.isChrdev(e.mode) ? e.id : 1),
            (t.ino = e.id),
            (t.mode = e.mode),
            (t.nlink = 1),
            (t.uid = 0),
            (t.gid = 0),
            (t.rdev = e.rdev),
            pe.isDir(e.mode)
                ? (t.size = 4096)
                : pe.isFile(e.mode)
                ? (t.size = e.usedBytes)
                : pe.isLink(e.mode)
                ? (t.size = e.link.length)
                : (t.size = 0),
            (t.atime = new Date(e.timestamp)),
            (t.mtime = new Date(e.timestamp)),
            (t.ctime = new Date(e.timestamp)),
            (t.blksize = 4096),
            (t.blocks = Math.ceil(t.size / t.blksize)),
        },
    },
    setattr: function (e, t) {
        void 0 !== t.mode && (e.mode = t.mode),
        void 0 !== t.timestamp && (e.timestamp = t.timestamp),
        void 0 !== t.size && ge.resizeFileStorage(e, t.size)
    },
    lookup: function (e, t) {
        throw pe.genericErrors[44]
    },
    mknod: function (e, t, r, A) {
        return ge.createNode(e, t, r, A)
    },
    rename: function (e, t, r) {
        if (pe.isDir(e.mode)) {
            var A
            try {
                A = pe.lookupNode(t, r)
            } catch (e) {}
            if (A) for (var n in A.contents) throw new pe.ErrnoError(55)
            delete e.parent.contents[e.name],
            (e.name = r),
            (t.contents[r] = e),
        } else {
            if (pe.isFile(e.mode))
                throw new pe.ErrnoError(55)
            throw new pe.ErrnoError(55)
        }
    }
}
(e.parent = t)
},
unlink: function (e, t) {
  delete e.contents[t]
},
rmdir: function (e, t) {
  var r = pe.lookupNode(e, t)
  for (var A in r.contents) throw new pe.ErrnoError(55)
  delete e.contents[t]
},
readdir: function (e) {
  var t = ['.','.']
  for (var r in e.contents)
    e.contents.hasOwnProperty(r) && t.push(r)
  return t
},
symlink: function (e, t, r) {
  var A = ge.createNode(e, t, 41471, 0)
  return (A.link = r), A
},
readlink: function (e) {
  if (!pe.isLink(e.mode)) throw new pe.ErrnoError(28)
  return e.link
},
},
stream_ops: {
  read: function (e, t, r, A, n) {
    var o = e.node.contents
    if (n >= e.node.usedBytes) return 0
    var i = Math.min(e.node.usedBytes - n, A)
    if (i > 8 && o.subarray) t.set(o.subarray(n, n + i), r)
    else for (var s = 0; s < i; s++) t[r + s] = o[n + s]
    return i
  },
  write: function (e, t, r, A, n, o) {
    if ((t.buffer === N.buffer && (o = !1), !A)) return 0
    var i = e.node
    if (i.timestamp = Date.now(),
      t.subarray && (!i.contents || i.contents.subarray))
    )
    if (o)
      return (i.contents = t.subarray(r, r + A), (i.usedBytes = A), A)
    if (0 === i.usedBytes && 0 === n)
      return (i.contents = t.slice(r, r + A), (i.usedBytes = A), A)
if \((n + A \leq i.\text{usedBytes})\)

\[
\text{return } i.\text{contents.set}(t.\text{subarray}(r, r + A), n, A)
\]

if (1)

\[
\text{(ge.expandFileStorage}(i, n + A),
\text{i.contents.subarray }\&\& t.\text{subarray})
\]

\[
i.\text{contents.set}(t.\text{subarray}(r, r + A), n)
\]
else for (var s = 0; s < A; s++) i.contents[n + s] = t[r + s]

\[
\text{return } (i.\text{usedBytes} = \text{Math.max}(i.\text{usedBytes}, n + A)), A
\].

llseek: function (e, t, r) {
var A = t
if (1)

\[
? (A += e.\text{position})
\]

\[
: 2 \text{=== r }\&\&
\]

\[
\text{pe.isFile}(e.\text{node.mode}) \&\&
\]

\[
(A += e.\text{node.usedBytes}),
\]

\[
\text{A < 0)
\]

\[
\text{throw new } \text{pe.ErrnoError}(28)
\]

\[
\text{return } A
\]
}
,
allocate: function (e, t, r) {
\[
\text{ge.expandFileStorage}(e.\text{node}, t + r),
\]

\[
(e.\text{node.usedBytes} = \text{Math.max}(e.\text{node.usedBytes}, t + r))
\]
},
mmap: function (e, t, r, A, n, o) {
if ((E(0 === t), !pe.isFile(e.\text{node.mode})))

\[
\text{throw new } \text{pe.ErrnoError}(43)
\]

\[
\text{var } i,
\]

\[
\text{s},
\]

\[
a = e.\text{node.contents}
\]
if (2 & o || a.buffer !== k) {

\[
\text{if (}
\]

\[
((A > 0 || A + r < a.\text{length}) \&\&
\]

\[
(a = a.\text{subarray}
\]

\[
? a.\text{subarray}(A, A + r)
\]

\[
: \text{Array.prototype.slice.call}(a, A, A + r)),
\]

\[
(s = !0),
\]

\[
!(i = \text{pe.mmapAlloc}(r)))
\]

\[
\text{throw new } \text{pe.ErrnoError}(48)
\]

\[
\text{N.set(a, i)}
\]
}
else (s = !1), (i = a.byteOffset)

\[
\text{return } \{ \text{ptr: i, allocated: s } \}
\]
msync: function (e, t, r, A, n) {
  if (!pe.isFile(e.node.mode)) throw new pe.ErrnoError(43)
  if (2 & n) return 0
  ge.stream_ops.write(e, t, 0, A, r, !1)
  return 0
},
},
},
le = {
  EPERM: 63,
  ENOENT: 44,
  ESRCH: 71,
  EINTR: 27,
  EIO: 29,
  ENXIO: 60,
  E2BIG: 1,
  ENOEXEC: 45,
  EBADF: 8,
  ECHILD: 12,
  EAGAIN: 6,
  EWOULDBLOCK: 6,
  ENOMEM: 48,
  EACCES: 2,
 EFAULT: 21,
  ENOTBLK: 105,
  EBUSY: 10,
  EXIST: 20,
  EXDEV: 75,
  ENODEV: 43,
  ENOTDIR: 54,
  EISDIR: 31,
  EINVAL: 28,
  ENFILE: 41,
  EMFILE: 33,
  ENOTTY: 59,
  ETXTBSY: 74,
  EFBIG: 22,
  ENOSPC: 51,
  EPIPE: 64,
  EDOM: 18,
  ERANGE: 68,
  ENOMSG: 49,
  EIDRM: 24,
  ECHRNG: 106,
EL2NSYNC: 156,
EL3HLT: 107,
EL3RST: 108,
ELNRNG: 109,
EUNATCH: 110,
ENOSCI: 111,
EL2HLT: 112,
EDEADLK: 16,
ENOLCK: 46,
EBADE: 113,
EBADR: 114,
EXFULL: 115,
ENOANO: 104,
EBADRCQC: 103,
EBADSIL: 102,
EDEADLOCK: 16,
EBFONT: 101,
ENOSTR: 100,
ENODATA: 116,
ETIME: 117,
ENOSR: 118,
ENONET: 119,
ENOPKG: 120,
EREMOTE: 121,
ENOLINK: 47,
EADV: 122,
ESRMNT: 123,
ECOMM: 124,
EPROTO: 65,
EMULTIHOP: 36,
EDOTDOT: 125,
EBADMSG: 9,
ENOTUNIQ: 126,
EBADFD: 127,
EREMCHG: 128,
ELIBACC: 129,
ELIBBAD: 130,
ELIBSCN: 131,
ELIBMAX: 132,
ELIBEXEC: 133,
ENOSYS: 52,
ENOTEMPTY: 55,
ENAMETOOLONG: 37,
ELOOP: 32,
EOPNOTSUPP: 138,
EPFNOSUPPORT: 139,
ECNNRESET: 15,
ENOBUFFS: 42,
EAFNOSUPPORT: 5,
EPROTOYPE: 67,
ENOTSOCK: 57,
ENOPROTOOFT: 50,
ESHUTDOWN: 140,
ECONNREFUSED: 14,
EADDRINUSE: 3,
ECONNABORTED: 13,
ENETUNREACH: 40,
ENETDOWN: 38,
ETIMEDOUT: 73,
EHOSTDOWN: 142,
EHOSTUNREACH: 23,
EINPROGRESS: 26,
EALREADY: 7,
EDESTADDRREQ: 17,
EMSGSIZE: 35,
EPROTOONOSUPPORT: 66,
ESOCKTNOSUPPORT: 137,
EADDRNOTAVAIL: 4,
ENETRESET: 39,
EISCONN: 30,
ENOTCONN: 53,
ETOOMANYREFS: 141,
EUSERS: 136,
EDQUOT: 19,
ESTALE: 72,
ENOTSUP: 138,
ENOMEDIUM: 148,
EILSEQ: 25,
EOVERFLOW: 61,
ECANCELED: 11,
ENOTRECOVERABLE: 56,
EOWNERDEAD: 62,
ESTRPIPE: 135,
};
ue = {
isWindows: !1,
staticInit: function () {
    ue.isWindows = !!process.platform.match(/\^win/)
    var e = { fs: IE.constants }
    e.fs && (e = e.fs),
    (ue.flagsForNodeMap = {
        1024: e.O_APPEND,
        64: e.O_CREAT,
        128: e.O_EXCL,
        0: e.O_RDONLY,
        2: e.O_RDWR,
4096: e.O_SYNC,
512: e.O_TRUNC,
1: e.O_WRONLY,
})
]
bufferFrom: function (e) {
  return Buffer.alloc ? Buffer.from(e) : new Buffer(e)
]
convertNodeCode: function (e) {
  var t = e.code
  return le[t]
]
mount: function (e) {
  return ue.createNode(null, '/', ue.getMode(e.opts.root), 0)
]
createNode: function (e, t, r, A) {
  if (!pe.isFile(r) && !pe.isFile(r) && !pe.isLink(r))
    throw new pe.ErrnoError(28)
  var n = pe.createNode(e, t, r)
  return (n.node_ops = ue.node_ops), (n.stream_ops = ue.stream_ops), n
}
]
getMode: function (e) {
  var t
  try {
    (t = Ie.lstatSync(e)),
    ue.isWindows && (t.mode = t.mode | ((292 & t.mode) >> 2))
  catch (e) {
    if (!e.code) throw e
    throw new pe.ErrnoError(ue.convertNodeCode(e))
  }
  return t.mode
],
realPath: function (e) {
  for (var t = []; e.parent !== e; ) t.push(e.name), (e = e.parent)
  return (t.push(e.mount.opts.root), t.reverse(), ie.join.apply(null, t)
}
],
flagsForNode: function (e) {
  ;(e &= -2097153), (e &= -2049), (e &= -32769), (e &= -524289)
  var t = 0
  for (var r in ue.flagsForNodeMap)
    e & r && ((t |= ue.flagsForNodeMap[r]), (e ^= r))
  if (e) throw new pe.ErrnoError(28)
  return t
]
node_ops: {
    getattr: function (e) {
        var t,
            r = ue.realPath(e)
        try {
            t = Ie.lstatSync(r)
        } catch (e) {
            if (!e.code) throw e
            throw new pe.ErrnoError(ue.convertNodeCode(e))
        }
        return (
            ue.isWindows && !t.blksize && (t.blksize = 4096),
            ue.isWindows &&
            !t.blocks &&
            (t.blocks = ((t.size + t.blksize - 1) / t.blksize) | 0),
            {
                dev: t.dev,
                ino: t.ino,
                mode: t.mode,
                nlink: t.nlink,
                uid: t.uid,
                gid: t.gid,
                rdev: t.rdev,
                size: t.size,
                atime: t.atime,
                mtime: t.mtime,
                ctime: t.ctime,
                blksize: t.blksize,
                blocks: t.blocks,
            }
        )
    },
    setattr: function (e, t) {
        var r = ue.realPath(e)
        try {
            if (void 0 !== t.mode &&
                (Ie.chmodSync(r, t.mode), (e.mode = t.mode)),
                void 0 !== t.timestamp)
            ) {
                var A = new Date(t.timestamp)
                Ie.utimesSync(r, A, A)
            }
            void 0 !== t.size && Ie.truncateSync(r, t.size)
        } catch (e) {
            if (!e.code) throw e
            throw new pe.ErrnoError(ue.convertNodeCode(e))
        }
    }
}
lookup: function (e, t) {
    var r = ie.join2(ue.realPath(e), t),
    A = ue.getMode(r)
    return ue.createNode(e, t, A)
},
mknod: function (e, t, r, A) {
    var n = ue.createNode(e, t, r, A),
    o = ue.realPath(n)
    try {
        pe.isDir(n.mode)
        ? Ie.mkdirSync(o, n.mode)
        : Ie.writeFileSync(o, "", { mode: n.mode })
    } catch (e) {
        if (!e.code) throw e
        throw new pe.ErrnoError(ue.convertNodeCode(e))
    }
    return n
},
rename: function (e, t, r) {
    var A = ue.realPath(e),
    n = ie.join2(ue.realPath(t), r)
    try {
        Ie.renameSync(A, n)
    } catch (e) {
        if (!e.code) throw e
        throw new pe.ErrnoError(ue.convertNodeCode(e))
    }
    e.name = r
},
unlink: function (e, t) {
    var r = ie.join2(ue.realPath(e), t)
    try {
        Ie.unlinkSync(r)
    } catch (e) {
        if (!e.code) throw e
        throw new pe.ErrnoError(ue.convertNodeCode(e))
    }
},
rmdir: function (e, t) {
    var r = ie.join2(ue.realPath(e), t)
    try {
        Ie.rmdirSync(r)
    } catch (e) {
        if (!e.code) throw e
        throw new pe.ErrnoError(ue.convertNodeCode(e))
    }
readdir: function (e) {
    var t = ue.realPath(e)
    try {
        return Ie.readdirSync(t)
    } catch (e) {
        if (!e.code) throw e
        throw new pe.ErrnoError(ue.convertNodeCode(e))
    }
},
symlink: function (e, t, r) {
    var A = ie.join2(ue.realPath(e), t)
    try {
        Ie.symlinkSync(r, A)
    } catch (e) {
        if (!e.code) throw e
        throw new pe.ErrnoError(ue.convertNodeCode(e))
    }
},
readlink: function (e) {
    var t = ue.realPath(e)
    try {
        return (t = Ie.readlinkSync(t)),
            (t = Ee.relative(Ee.resolve(e.mount.opts.root), t))
    } catch (e) {
        if (!e.code) throw e
        throw new pe.ErrnoError(ue.convertNodeCode(e))
    }
},
stream_ops: {
    open: function (e) {
        var t = ue.realPath(e.node)
        try {
            pe.isFile(e.node.mode) &&
                (e.nfd = Ie.openSync(t, ue.flagsForNode(e.flags)))
        } catch (e) {
            if (!e.code) throw e
            throw new pe.ErrnoError(ue.convertNodeCode(e))
        }
    },
close: function (e) {
        try {
            pe.isFile(e.node.mode) && e.nfd && Ie.closeSync(e.nfd)
        } catch (e) {
            if (!e.code) throw e
            throw new pe.ErrnoError(ue.convertNodeCode(e))
        }
    }
}
read: function (e, t, r, A, n) {
  if (0 === A) return 0
  try {
    return Ie.readSync(e.nfd, ue.bufferFrom(t.buffer), r, A, n)
  } catch (e) {
    throw new pe.ErrnoError(ue.convertNodeCode(e))
}
},
write: function (e, t, r, A, n) {
  try {
    return Ie.writeSync(e.nfd, ue.bufferFrom(t.buffer), r, A, n)
  } catch (e) {
    throw new pe.ErrnoError(ue.convertNodeCode(e))
}
},
llseek: function (e, t, r) {
  var A = t
  if (1 === r) A += e.position
  else if (2 === r && pe.isFile(e.node.mode))
    try {
      A += Ie.fstatSync(e.nfd).size
    } catch (e) {
      throw new pe.ErrnoError(ue.convertNodeCode(e))
    }
  if (A < 0) throw new pe.ErrnoError(28)
  return A
},
mmap: function (e, t, r, A, n, o) {
  if ((0 === t) && !pe.isFile(e.node.mode))
    throw new pe.ErrnoError(43)
  var i = pe.mmapAlloc(r)
  return (ue.stream_ops.read(e, N, i, r, A), { ptr: i, allocated: !0 })
},
msync: function (e, t, r, A, n) {
  if (!pe.isFile(e.node.mode)) throw new pe.ErrnoError(43)
  if (2 & n) return 0
  ue.stream_ops.write(e, t, 0, A, r, !1)
  return 0
}
],
he = {
  lookupPath: function (e) {
    return { path: e, node: { mode: ue.getMode(e) } }
  }
}
createStandardStreams: function () {
    pe.streams[0] = {
        fd: 0,
        nfd: 0,
        position: 0,
        path: ",",
        flags: 0,
        tty: 0,
        seekable: 0,
    }
    for (var e = 1; e < 3; e++)
        pe.streams[e] = {
            fd: e,
            nfd: e,
            position: 0,
            path: ",",
            flags: 577,
            tty: 0,
            seekable: 0,
        }
    },
    cwd: function () {
        return process.cwd()
    },
    chdir: function () {
        process.chdir.apply(void 0, arguments)
    },
    mknod: function (e, t) {
        pe.isDirectory(e)
            ? Ie.mkdirSync(e, t)
            : Ie.writeFileSync(e, ",", { mode: t })
    },
    mkdir: function () {
        Ie.mkdirSync.apply(void 0, arguments)
    },
    symlink: function () {
        Ie.symlinkSync.apply(void 0, arguments)
    },
    rename: function () {
        Ie.renameSync.apply(void 0, arguments)
    },
    rmdir: function () {
        Ie.rmdirSync.apply(void 0, arguments)
    },
    readdir: function () {
        Ie.readdirSync.apply(void 0, arguments)
    },
unlink: function () {
  Ie.unlinkSync.apply(void 0, arguments)
},
readlink: function () {
  return Ie.readlinkSync.apply(void 0, arguments)
},
stat: function () {
  return Ie.statSync.apply(void 0, arguments)
},
lstat: function () {
  return Ie.lstatSync.apply(void 0, arguments)
},
chmod: function () {
  Ie.chmodSync.apply(void 0, arguments)
},
fchmod: function () {
  Ie.fchmodSync.apply(void 0, arguments)
},
chown: function () {
  Ie.chownSync.apply(void 0, arguments)
},
fchown: function () {
  Ie.fchownSync.apply(void 0, arguments)
},
truncate: function () {
  Ie.truncateSync.apply(void 0, arguments)
},
ftruncate: function () {
  Ie.ftruncateSync.apply(void 0, arguments)
},
utime: function () {
  Ie.utimesSync.apply(void 0, arguments)
},

open: function (e, t, r, A) {
  'string' == typeof t && (t = ye.modeStringToFlags(t))
  var n = Ie.openSync(e, ue.flagsForNode(t), r),
  o = null != A ? A : pe.nextfd(n),
  i = {
    fd: o,
    nfd: n,
    position: 0,
    path: e,
    flags: t,
    seekable: !0,
  }
  return (pe.streams[o] = i), i
},
close: function (e) {
e.stream_ops || le.closeSync(e.nfd), pe.closeStream(e.fd)
].
llseek: function (e, t, r) {
    if (e.stream_ops) return ye.llseek(e, t, r)
    var A = t
    if (1 === r) A += e.position
    else if (2 === r) A += le.fstatSync(e.nfd).size
    else if (0 !== r) throw new pe.ErrnoError(le.EINVAL)
    if (A < 0) throw new pe.ErrnoError(le.EINVAL)
    return (e.position = A), A
},
read: function (e, t, r, A, n) {
    if (e.stream_ops) return ye.read(e, t, r, A, n)
    var o = void 0 !== n
    !o && e.seekable && (n = e.position)
    var i = le.readSync(e.nfd, ue.bufferFrom(t.buffer), r, A, n)
    return o || (e.position += i), i
},
write: function (e, t, r, A, n) {
    if (e.stream_ops) return ye.write(e, t, r, A, n)
    1024 & e.flags && pe.llseek(e, 0, 2)
    var o = void 0 !== n
    !o && e.seekable && (n = e.position)
    var i = le.writeSync(e.nfd, ue.bufferFrom(t.buffer), r, A, n)
    return o || (e.position += i), i
},
allocate: function () {
    throw new pe.ErrnoError(le.EOPNOTSUPP)
},
mmap: function () {
    throw new pe.ErrnoError(le.ENODEV)
},
msync: function () {
    return 0
},
munmap: function () {
    return 0
},
ioctl: function () {
    throw new pe.ErrnoError(le.ENOTTY)
},
pe = {
    root: null,
    mounts: [],
    devices: [],
    streams: [],
    next_inode: 1,
nameTable: null,
currentPath: '/',
initialized: !1,
ignorePermissions: !0,
trackingDelegate: {},
tracking: { openFlags: { READ: 1, WRITE: 2 } },
ErrnoError: null,
genericErrors: {},
filesystems: null,
syncFSRequests: 0,
handleFSError: function (e) {
  if (!(e instanceof pe.ErrnoError)) throw e + ' : ' + ne()
  return se(e.errno)
},
lookupPath: function (e, t) {
  if (((t = t || {}), !(e = ae.resolve(pe.cwd(), e))))
    return { path: '', node: null }
  var r = { follow_mount: !0, recurse_count: 0 }
  for (var A in r) void 0 === t[A] && (t[A] = r[A])
  if (t.recurse_count > 8) throw new pe.ErrnoError(32)
  for (var n = ie.normalizeArray(
      e.split('/').filter(function (e) {
        return !!e
      })),
    i = '/',
    s = 0;
    s < n.length;
    s++
  ) {
    var a = s === n.length - 1
    if (a & t.parent) break
    if (o = pe.lookupNode(o, n[s]),
      i = ie.join2(i, n[s]),
      pe.isMountpoint(o) &
      (!a || (a & t.follow_mount)) &
      (o = o.mounted.root),
      !a || t.follow)
  for (var c = 0; pe.isLink(o.mode); ) {
    var g = pe.readlink(i)
    if (i = ae.resolve(i.e.dirname(i), g),
      o = pe.lookupPath(i, { recurse_count: t.recurse_count }))
  }
}
```javascript
    .node),
c++ > 40)
    )
    throw new pe.ErrnoError(32)
    }
    }
    return { path: i, node: o }
},
getPath: function (e) {
    for (var t; ; ) {
        if (pe.isRoot(e)) {
            var r = e.mount.mountpoint
            return t ? ('/' !== r[r.length - 1] ? r + '/' + t : r + t) : r
        }
        ;(t = t ? e.name + '/' + t : e.name), (e = e.parent)
    }
},
hashName: function (e, t) {
    for (var r = 0, A = 0; A < t.length; A++)
        r = ((r << 5) - r + t.charCodeAt(A)) | 0
    return ((e + r) >>> 0) % pe.nameTable.length
},
hashAddNode: function (e) {
    var t = pe.hashName(e.parent.id, e.name)
    ;(e.name_next = pe.nameTable[t]), (pe.nameTable[t] = e)
},
hashRemoveNode: function (e) {
    var t = pe.hashName(e.parent.id, e.name)
    if (pe.nameTable[t] === e) pe.nameTable[t] = e.name_next
    else
        for (var r = pe.nameTable[t]; r; ) {
            if (r.name_next === e) {
                r.name_next = e.name_next
                break
            }
            r = r.name_next
        }
},
lookupNode: function (e, t) {
    var r = pe.mayLookup(e)
    if (r) throw new pe.ErrnoError(r, e)
    for (var A = pe.hashName(e.id, t), n = pe.nameTable[A];
        n;
        n = n.name_next
    ) {
        var o = n.name
        if (n.parent.id === e.id && o === t) return n
    }
```

---

*Open Source Used In Cisco Cloud Mailbox Defense -CMD (Project Raptor) April 2021 21352*
return pe.lookup(e, t),
createNode: function (e, t, r, A) {
    var n = new pe.FSNode(e, t, r, A)
    return pe.hashAddNode(n, n)
},
destroyNode: function (e) {
    pe.hashRemoveNode(e)
},
isRoot: function (e) {
    return e === e.parent
},
isMountpoint: function (e) {
    return !!e.mounted
},
isFile: function (e) {
    return 32768 == (61440 & e)
},
isDir: function (e) {
    return 16384 == (61440 & e)
},
isLink: function (e) {
    return 40960 == (61440 & e)
},
isChrdev: function (e) {
    return 8192 == (61440 & e)
},
isBlkdev: function (e) {
    return 24576 == (61440 & e)
},
isFIFO: function (e) {
    return 4096 == (61440 & e)
},
isSocket: function (e) {
    return 49152 == (49152 & e)
},
flagModes: {
    r: 0,
    rs: 1052672,
    'r+': 2,
    w: 577,
    wx: 705,
    xw: 705,
    'w+': 578,
    'wx+': 706,
    'xw+': 706,
    a: 1089,
modeStringToFlags: function (e) {
  var t = pe.flagModes[e]
  if (void 0 === t) throw new Error('Unknown file open mode: ' + e)
  return t
},
flagsToPermissionString: function (e) {
  var t = ['r', 'w', 'rw'][3 & e]
  return 512 & e && (t += 'w'), t
},
nodePermissions: function (e, t) {
  return pe.ignorePermissions ||
    (-1 === t.indexOf('r') || 292 & e.mode) &&
    (-1 === t.indexOf('w') || 146 & e.mode) &&
    (-1 === t.indexOf('x') || 73 & e.mode))
? 0
: 2
},
mayLookup: function (e) {
  var t = pe.nodePermissions(e, 'x')
  return t || (e.node_ops.lookup ? 0 : 2)
},
mayCreate: function (e, t) {
  try {
    pe.lookupNode(e, t)
    return 20
  } catch (e) {
  }
  return pe.nodePermissions(e, 'wx')
},
mayDelete: function (e, t, r) {
  var A
  try {
    A = pe.lookupNode(e, t)
  } catch (e) {
    return e.errno
  }
  var n = pe.nodePermissions(e, 'wx')
  if (n) return n
  if (r) {
    if (!pe.isDir(A.mode)) return 54
    if (pe.isRoot(A) || pe.getPath(A) === pe.cwd()) return 10
  } else if (pe.isDir(A.mode)) return 31
  return 0
mayOpen: function (e, t) {
    return e
    ? pe.isLink(e.mode)
    ? 32
    : pe.isDir(e.mode) &&
    ('r' !== pe.flagsToPermissionString(t) || 512 & t)
    ? 31
    : pe.nodePermissions(e, pe.flagsToPermissionString(t))
    : 44
}

MAX_OPEN_FDS: 4096,
nextfd: function (e, t) {
    (e = e || 0), (t = t || pe.MAX_OPEN_FDS)
    for (var r = e; r <= t; r++) if (!pe.streams[r]) return r
    throw new pe.ErrnoError(33)
}

getStream: function (e) {
    return pe.streams[e]
}

createStream: function (e, t, r) {
    pe.FSStream ||
    (pe.FSStream = function () {}),
    (pe.FSStream.prototype = {
        object: {
            get: function () {
                return this.node
            },
            set: function (e) {
                this.node = e
            },
        },
        isRead: {
            get: function () {
                return 1 != (2097155 & this.flags)
            },
        },
        isWrite: {
            get: function () {
                return 0 != (2097155 & this.flags)
            },
        },
        isAppend: {
            get: function () {
                return 1024 & this.flags
            },
        }
    })
}
var A = new pe.FSStream()
for (var n in e) A[n] = e[n]
e = A
var o = pe.nextfd(t, r)
return (e.fd = o), (pe.streams[o] = e), e
}
closeStream: function (e) {
  pe.streams[e] = null
}
chrdev_stream_ops: {
  open: function (e) {
    var t = pe.getDevice(e.node.rdev)
    ;(e.stream_ops = t.stream_ops),
    e.stream_ops.open && e.stream_ops.open(e)
  },
  llseek: function () {
    throw new pe.ErrnoError(70)
  },
  major: function (e) {
    return e >> 8
  },
  minor: function (e) {
    return 255 & e
  },
  makedev: function (e, t) {
    return (e << 8) | t
  },
  registerDevice: function (e, t) {
    pe.devices[e] = { stream_ops: t }
  },
  getDevice: function (e) {
    return pe.devices[e]
  },
  getMounts: function (e) {
    for (var t = [], r = [e]; r.length; ) {
      var A = r.pop()
      t.push(A), r.push.apply(r, A.mounts)
    }
    return t
  },
  syncfs: function (e, t) {
    'function' == typeof e & & ((t = e), (e = !1)),
    pe.syncFSRequests++,
    pe.syncFSRequests > 1 & &
    p(
      'warning: ' +
      pe.syncFSRequests +
    )
  },
`FS.syncfs operations in flight at once, probably just doing extra work`,

```javascript
var r = pe.getMounts(pe.root.mount),
    A = 0

function n(e) {
  return pe.syncFSRequests--, t(e)
}

function o(e) {
  if (e) return o.errored ? void 0 : ((o.errored = !0), n(e))
  ++A >= r.length && n(null)
}

r.forEach(function (t) {
  if (!t.type.syncfs) return o(null)
  t.type.syncfs(t, e, o)
});

mount: function (e, t, r) {
  var A,
      n = '/' === r,
      o = !r
  if (n && pe.root) throw new pe.ErrnoError(10)
  if (!n && !o) {
    var i = pe.lookupPath(r, { follow_mount: !1 })
    if (((r = i.path), (A = i.node), pe.isMountpoint(A)))
      throw new pe.ErrnoError(10)
    if (!pe.isDir(A.mode)) throw new pe.ErrnoError(54)
  }
  var s = { type: e, opts: t, mountpoint: r, mounts: [] },
      a = e.mount(s)
  return (
    (a.mount = s),
    (s.root = a),
    n
  ? (pe.root = a)
  : A && ((A.mounted = s), A.mount && A.mount.mounts.push(s)),
    a
  )
},

unmount: function (e) {
  var t = pe.lookupPath(e, { follow_mount: !1 })
  if (!pe.isMountpoint(t.node)) throw new pe.ErrnoError(28)
  var r = t.node,
      A = r.mounted,
      n = pe.getMounts(A)
  Object.keys(pe.nameTable).forEach(function (e) {
    for (var t = pe.nameTable[e]; t; ) {
      var r = t.name_next
      !-1 !== n.indexOf(t.mount) && pe.destroyNode(t), (t = r)
    }
  })
};
```
var o = r.mount.mounts.indexOf(A)
r.mount.mounts.splice(o, 1)
}
lookup: function (e, t) {
  return e.node_ops.lookup(e, t)
},
mknod: function (e, t, r) {
  var A = pe.lookupPath(e, { parent: !0 }).node,
  n = ie.basename(e)
  if (!n || '.' === n || '..' === n) throw new pe.ErrnoError(28)
  var o = pe.mayCreate(A, n)
  if (o) throw new pe.ErrnoError(o)
  if (!A.node_ops.mknod) throw new pe.ErrnoError(63)
  return A.node_ops.mknod(A, n, t, r)
},
create: function (e, t) {
  return (
    (t = void 0 !== t ? t : 438),
    (t &= 4095),
    (t |= 32768),
    pe.mknod(e, t, 0)
  )
},
mkdir: function (e, t) {
  return (
    (t = void 0 !== t ? t : 511),
    (t &= 1023),
    (t |= 16384),
    pe.mknod(e, t, 0)
  )
},
mkdirTree: function (e, t) {
  for (var r = e.split(''), A = ",", n = 0; n < r.length; ++n)
    if (r[n]) {
      A += '/' + r[n]
      try {
        pe.mkdir(A, t)
      } catch (e) {
        if (20 != e.errno) throw e
      }
    }
},
mkdev: function (e, t, r) {
  return (void 0 === r ? r : ((r = t), (t = 438)),

(t |= 8192),
pe.mknod(e, t, r)
)
},
symlink: function (e, t) {
if (!ae.resolve(e)) throw new pe.ErrnoError(44)
var r = pe.lookupPath(t, { parent: !0 }).node
if (!r) throw new pe.ErrnoError(44)
var A = ie.basename(t),
n = pe.mayCreate(r, A)
if (n) throw new pe.ErrnoError(n)
if (!r.node_ops.symlink) throw new pe.ErrnoError(63)
return r.node_ops.symlink(r, A, e)
},
rename: function (e, t) {
var r,
A,
n = ie.dirname(e),
o = ie.dirname(t),
i = ie.basename(e),
s = ie.basename(t)
if (e = pe.lookupPath(t, { parent: !0 }).node),
(A = pe.lookupPath(t, { parent: !0 }).node),
!(r || !A)
throw new pe.ErrnoError(44)
if (r.mount !== A.mount) throw new pe.ErrnoError(75)
var a,
c = pe.lookupNode(r, i),
g = ae.relative(e, o)
if (\'!\' !== g.charAt(0)) throw new pe.ErrnoError(28)
if (\'!\' !== (g = ae.relative(t, n)).charAt(0))
throw new pe.ErrnoError(55)
try {
a = pe.lookupNode(A, s)
} catch (e) {
}
if (c !== a) {
var l = pe.isDir(c.mode),
u = pe.mayDelete(r, i, l)
if (u) throw new pe.ErrnoError(u)
if ((u = a ? pe.mayDelete(A, s, l) : pe.mayCreate(A, s)))
throw new pe.ErrnoError(u)
if (!r.node_ops.rename) throw new pe.ErrnoError(63)
if (pe.isMountpoint(c) || (a && pe.isMountpoint(a)))
throw new pe.ErrnoError(10)
if (A !== r && (u = pe.nodePermissions(r, \'w\'))) throw new pe.ErrnoError(u)
try {
    pe.trackingDelegate.willMovePath &&
    pe.trackingDelegate.willMovePath(e, t)
} catch (r) {

    p(
        "FS.trackingDelegate[\'willMovePath\'](" +
        e +
        "," +
        t +
        ") threw an exception: " +
        r.message,
    )
}

pe.hashRemoveNode(c)
try {
    r.node_ops.rename(c, A, s)
} catch (e) {
    throw e
} finally {
    pe.hashAddNode(c)
}
try {
    pe.trackingDelegate.onMovePath &&
    pe.trackingDelegate.onMovePath(e, t)
} catch (r) {

    p(
        "FS.trackingDelegate[\'onMovePath\'](" +
        e +
        "," +
        t +
        ") threw an exception: " +
        r.message,
    )
}
}
}
}

rm: function (e) {
    var t = pe.lookupPath(e, { parent: !0 }).node,
    r = ie.basename(e),
    A = pe.lookupNode(t, r),
    n = pe.mayDelete(t, r, !0)
    if (n) throw new pe.ErrnoError(n)
    if (!t.node_ops.rmdir) throw new pe.ErrnoError(63)
    if (t.node_ops.rmdir) throw new pe.ErrnoError(63)
    if (pe.isMountpoint(A)) throw new pe.ErrnoError(10)
    try {
        pe.trackingDelegate.willDeletePath &&
        pe.trackingDelegate.willDeletePath(e)
    } catch (t) {
}
p("FS.trackingDelegate['willDeletePath']('" +
e +
"') threw an exception: " +
t.message,
)}
t.node_ops.rmdir(t, r), pe.destroyNode(A)
try {
  pe.trackingDelegate.onDeletePath &&
  pe.trackingDelegate.onDeletePath(e)
} catch (t) {
  p("FS.trackingDelegate['onDeletePath']('" +
e +
"') threw an exception: " +
t.message,
)}
",
readdir: function (e) {
  var t = pe.lookupPath(e, { follow: !0 }).node
  if (!t.node_ops.readdir) throw new pe.ErrnoError(54)
  return t.node_ops.readdir(t)
},
unlink: function (e) {
  var t = pe.lookupPath(e, { parent: !0 }).node,
      r = ie.basename(e),
      A = pe.lookupNode(t, r),
      n = pe.mayDelete(t, r, !1)
  if (n) throw new pe.ErrnoError(n)
  if (pe.isMountpoint(A)) throw new pe.ErrnoError(10)
  try {
    pe.trackingDelegate.willDeletePath &&
    pe.trackingDelegate.willDeletePath(e)
  } catch (t) {
    p("FS.trackingDelegate['willDeletePath']('" +
e +
"') threw an exception: " +
t.message,
  )
  } t.node_ops.unlink(t, r), pe.destroyNode(A)
try {
  pe.trackingDelegate.onDeletePath &&
  pe.trackingDelegate.onDeletePath(e)
catch (t) {
  p(
    "FS.trackingDelegate['onDeletePath'](" +
    e +
    ") threw an exception: " +
    t.message,
  )
}

readlink: function (e) {
  var t = pe.lookupPath(e).node
  if (!t) throw new pe.ErrnoError(44)
  if (!t.node_ops.readlink) throw new pe.ErrnoError(28)
  return ae.resolve(pe.getPath(t.parent), t.node_ops.readlink(t))
},

stat: function (e, t) {
  var r = pe.lookupPath(e, { follow: !t }).node
  if (!r) throw new pe.ErrnoError(44)
  if (!r.node_ops.getattr) throw new pe.ErrnoError(63)
  return r.node_ops.getattr(r)
},

lstat: function (e) {
  return pe.stat(e, !0)
},

chmod: function (e, t, r) {
  var A
  'string' == typeof e
    ? (A = pe.lookupPath(e, { follow: !r }).node)
    : (A = e)
  if (!A.node_ops.setattr) throw new pe.ErrnoError(63)
  A.node_ops.setattr(A, {
    mode: (4095 & t) | (-4096 & A.mode),
    timestamp: Date.now(),
  })
},

lchmod: function (e, t) {
  pe.chmod(e, t, !0)
},

fchmod: function (e, t) {
  var r = pe.getStream(e)
  if (!r) throw new pe.ErrnoError(8)
  pe.chmod(r.node, t)
},

chown: function (e, t, r, A) {
  var n
  'string' == typeof e
    ? (n = pe.lookupPath(e, { follow: !A }).node)
    : (n = e)
if (!n.node_ops.setattr) throw new pe.ErrnoError(63)
  n.node_ops.setattr(n, { timestamp: Date.now() })
},
lchown: function (e, t, r) {
  pe.chown(e, t, r, !0)
},
fchown: function (e, t, r) {
  var A = pe.getStream(e)
  if (!A) throw new pe.ErrnoError(8)
  pe.chown(A.node, t, r)
},
truncate: function (e, t) {
  if (t < 0) throw new pe.ErrnoError(28)
  var r
  'string' == typeof e
  ? (r = pe.lookupPath(e, { follow: !0 }).node)
  : (r = e)
  if (!r.node_ops.setattr) throw new pe.ErrnoError(63)
  if (pe.isDirectory(r.mode)) throw new pe.ErrnoError(31)
  if (!pe.isFile(r.mode)) throw new pe.ErrnoError(28)
  var A = pe.nodePermissions(r, 'w')
  if (A) throw new pe.ErrnoError(A)
  r.node_ops.setattr(r, { size: t, timestamp: Date.now() })
},
ftruncate: function (e, t) {
  var r = pe.getStream(e)
  if (!r) throw new pe.ErrnoError(8)
  if (0 == (2097155 & r.flags)) throw new pe.ErrnoError(28)
  pe.truncate(r.node, t)
},
utime: function (e, t, r) {
  var A = pe.lookupPath(e, { follow: !0 }).node
  A.node_ops.setattr(A, { timestamp: Math.max(t, r) })
},
open: function (e, t, r, A, n) {
  if ('' === e) throw new pe.ErrnoError(44)
  var i
  if (i
    (r = void 0 === r ? 438 : r),
    r =
      64 & (t = 'string' == typeof t ? pe.modeStringToFlags(t) : t)
      ? (4095 & r) | 32768
      : 0),
    'object' == typeof e)
  )
  i = e
  else {
    e = ie.normalize(e)
try {
  i = pe.lookupPath(e, { follow: !(131072 & t) }).node
} catch (e) {
}

var s = !1
if (64 & t)
  if (i) {
    if (128 & t) throw new pe.ErrnoError(20)
  } else {
    i = pe.mknod(e, r, 0), (s = !0)
  }
if (!i) throw new pe.ErrnoError(44)
if (pe.isChrdev(i.mode) && (t & -513),
65536 & t && !pe.isDir(i.mode))
  throw new pe.ErrnoError(54)
if (!s) {
  var a = pe.mayOpen(i, t)
  if (a) throw new pe.ErrnoError(a)
}
512 & t && pe.truncate(i, 0), (t & -131713)
var c = pe.createStream(
  {
    node: i,
    path: pe.getPath(i),
    flags: t,
    seekable: !0,
    position: 0,
    stream_ops: i.stream_ops,
    ungotten: [],
    error: !1,
  },
  A,
  n,
)
c.stream_ops.open && c.stream_ops.open(c),
!o.logReadFiles ||
1 & t ||
(pe.readFiles || (pe.readFiles = {}),
e in pe.readFiles ||
  ((pe.readFiles[e] = 1),
p('FS.trackingDelegate error on read file: ' + e)))
try {
  if (pe.trackingDelegate.onOpenFile) {
    var g = 0
    1 != (2097155 & t) && (g |= pe.tracking.openFlags.READ),
    0 != (2097155 & t) && (g |= pe.tracking.openFlags.WRITE),
    pe.trackingDelegate.onOpenFile(e, g)
  }
catch (t) {
  p(
    "FS.trackingDelegate['onOpenFile']" + e + "\n    '. flags) threw an exception: " + t.message,
  )
}
return c
},
close: function (e) {
  if (pe.isClosed(e)) throw new pe.ErrnoError(8)
  e.getdents && (e.getdents = null)
  try {
    e.stream_ops.close && e.stream_ops.close(e)
  } catch (e) {
    throw e
  } finally {
    pe.closeStream(e.fd)
    e.fd = null
  },
isClosed: function (e) {
  return null === e.fd
  },
llseek: function (e, t, r) {
  if (pe.isClosed(e)) throw new pe.ErrnoError(8)
  if (!e.seekable || !e.stream_ops.llseek) throw new pe.ErrnoError(70)
  if (0 != r && 1 != r && 2 != r) throw new pe.ErrnoError(28)
  return (e.position = e.stream_ops.llseek(e, t, r)),
  (e.ungotten = []),
  e.position
  },
read: function (e, t, r, A, n) {
  if (A < 0 || n < 0) throw new pe.ErrnoError(28)
  if (pe.isClosed(e)) throw new pe.ErrnoError(8)
  if (1 == (2097155 & e.flags)) throw new pe.ErrnoError(8)
  if (pe.isDir(e.node.mode)) throw new pe.ErrnoError(31)
  if (!e.stream_ops.read) throw new pe.ErrnoError(28)
  var o = void 0 !== n
  if (o) {
    if (!e.seekable) throw new pe.ErrnoError(70)
  } else n = e.position
  var i = e.stream_ops.read(e, t, r, A, n)
  return o || (e.position += i), i
write: function (e, t, r, A, n, o) {
    if (A < 0 || n < 0) throw new pe.ErrnoError(28)
    if (pe.isClosed(e)) throw new pe.ErrnoError(8)
    if (0 == (2097155 & e.flags)) throw new pe.ErrnoError(8)
    if (pe.isDirectory(e.node.mode)) throw new pe.ErrnoError(31)
    if (!e.stream_ops.write) throw new pe.ErrnoError(28)
    e.seekable && 1024 & e.flags && pe.llseek(e, 0, 2)
    var i = void 0 !== n
    if (i) {
        if (!e.seekable) throw new pe.ErrnoError(70)
        else n = e.position
    } else n = e.position
    var s = e.stream_ops.write(e, t, r, A, n, o)
    i || (e.position += s)
    try {
        e.path &&
        pe.trackingDelegate.onWriteToFile &&
        pe.trackingDelegate.onWriteToFile(e.path)
    } catch (t) {
        p(
            "FS.trackingDelegate['onWriteToFile']('" +
            e.path +
            ") threw an exception: " +
            t.message,
        )
    }
    return s
},
allocate: function (e, t, r) {
    if (pe.isClosed(e)) throw new pe.ErrnoError(8)
    if (t < 0 || r <= 0) throw new pe.ErrnoError(28)
    if (0 == (2097155 & e.flags)) throw new pe.ErrnoError(8)
    if (!pe.isFile(e.node.mode) && !pe.isDirectory(e.node.mode))
        throw new pe.ErrnoError(43)
    if (!e.stream_ops.allocate) throw new pe.ErrnoError(138)
    e.stream_ops.allocate(e, t, r)
},
mmap: function (e, t, r, A, n, o) {
    if (0 != (2 & n) && 0 == (2 & o) && 2 != (2097155 & e.flags))
        throw new pe.ErrnoError(2)
    if (1 == (2097155 & e.flags)) throw new pe.ErrnoError(2)
    if (!e.stream_ops.mmap) throw new pe.ErrnoError(43)
    return e.stream_ops.mmap(e, t, r, A, n, o)
},
msync: function (e, t, r, A, n) {
    return e && e.stream_ops.msync
        ? e.stream_ops.msync(e, t, r, A, n)
        : 0
munmap: function (e) {
    return 0
}

ioctl: function (e, t, r) {
    if (!e.stream_ops.ioctl) throw new pe.ErrnoError(59)
    return e.stream_ops.ioctl(e, t, r)
}

readFile: function (e, t) {
    if (0)
        ((t = t || {})).flags = t.flags || 'r',
        (t.encoding = t.encoding || 'binary'),
        'utf8' !== t.encoding && 'binary' !== t.encoding)
    throw new Error('Invalid encoding type "" + t.encoding + ""')
    var r,
        A = pe.open(e, t.flags),
        n = pe.stat(e).size,
        o = new Uint8Array(n)
    return (0)
        pe.read(A, o, 0, n, 0),
        'utf8' === t.encoding
        ? (r = v(o, 0))
        : 'binary' === t.encoding && (r = o),
        pe.close(A),
        r
    }
}

writeFile: function (e, t, r) {
    (r = r || {}), flags = r.flags || 'w'
    var A = pe.open(e, r.flags, r.mode)
    if ('string' === typeof t) {
        var n = new Uint8Array(v(t) + 1),
            o = D(t, n, 0, n.length)
        pe.write(A, n, 0, o, void 0, r.canOwn)
    } else {
        if (!ArrayBuffer.isView(t))
            throw new Error('Unsupported data type')
        pe.write(A, t, 0, t.byteLength, void 0, r.canOwn)
    }
    pe.close(A)
}

cwd: function () {
    return pe.currentPath
}

chdir: function (e) {
    var t = pe.lookupPath(e, { follow: !0 })
    if (null === t.node) throw new pe.ErrnoError(44)
if (!pe.isDir(t.node.mode)) throw new pe.ErrnoError(54)
var r = pe.nodePermissions(t.node, 'x')
if (r) throw new pe.ErrnoError(r)
pe.currentPath = t.path
}

cREATE_DEFAULT_DIRECTORIES: function () {
  pe.mkdir('/tmp'), pe.mkdir('/home'), pe.mkdir('/home/web_user')
}

createDefaultDevices: function () {
  var e
  if (
    (pe.mkdir('/dev'),
     pe.registerDevice(pe.makedev(1, 3), {
      read: function () {
        return 0
      },
     write: function (e, t, r, A, n) {
        return A
      },
    }),
    pe.mkdev('/dev/null', pe.makedev(1, 3)),
    ce.register(pe.makedev(5, 0), ce.default_tty_ops),
    ce.register(pe.makedev(6, 0), ce.default_tty1_ops),
    pe.mkdev('/dev/tty', pe.makedev(5, 0)),
    pe.mkdev('/dev/tty1', pe.makedev(6, 0)),
    'object' == typeof crypto &&
    'function' == typeof crypto.getRandomValues)
  )
    var t = new Uint8Array(1)
e = function () {
      return crypto.getRandomValues(t)[0]
    }
  ) else {
    try {
      var A = r(76417)
e = function () {
        return A.randomBytes(1)[0]
      }
    } catch (e) {}[1]
  }
e ||
  (e = function () {
    _('random_device')
  }),
  pe.createDevice('/dev', 'random', e),
  pe.createDevice('/dev', 'urandom', e),
  pe.mkdir('/dev/shm'),
  pe.mkdir('/dev/shm/tmp')
createSpecialDirectories: function () {
    pe.mkdirt('/proc'),
    pe.mkdirt('/proc/self'),
    pe.mkdirt('/proc/self/fd'),
    pe.mount(
    { mount: function () {
        var e = pe.CreateNode('/proc/self', 'fd', 16895, 73)
        return (e.node_ops = { lookup: function (e, t) {
            var r = +t,
                A = pe.getStream(r)
            if (!A) throw new pe.ErrnoError(8)
            var n = {
                parent: null,
                mount: { mountpoint: 'fake' },
                node_ops: {
                    readlink: function () {
                        return A.path
                    }
                }
            }
            return (n.parent = n), n
        },
        }).
        e
    },
    },
    {'/proc/self/fd',
    })
    createStandardStreams: function () {
    o.stdin
    ? pe.createDevice('/dev', 'stdin', o.stdin)
    : pe.symlink('/dev/tty', '/dev/stdin'),
    o.stdout
    ? pe.createDevice('/dev', 'stdout', null, o.stdout)
    : pe.symlink('/dev/tty', '/dev/stdout'),
    o.stderr
    ? pe.createDevice('/dev', 'stderr', null, o.stderr)
    : pe.symlink('/dev/tty1', '/dev/stderr')
    pe.open('/dev/stdin', 'r'),
    pe.open('/dev/stdout', 'w'),
    pe.open('/dev/stderr', 'w')
ensureErrnoError: function () {
  pe.ErrnoError ||
  ((pe.ErrnoError = function (e, t) {
    (this.node = t),
    (this.setErrno = function (e) {
      this.errno = e
    });
    this.setErrno(e),
    (this.message = 'FS error')
  }),
  (pe.ErrnoError.prototype = new Error()),
  (pe.ErrnoError.prototype.constructor = pe.ErrnoError),
  [44].forEach(function (e) {
    (pe.genericErrors[e] = new pe.ErrnoError(e)),
    (pe.genericErrors[e].stack = '<generic error, no stack>')
  }))
}).

staticInit: function () {
  pe.ensureErrnoError(),
  (pe.nameTable = new Array(4096)),
  pe.mount(ge, [], '/'),
  pe.createDefaultDirectories(),
  pe.createDefaultDevices(),
  pe.createSpecialDirectories(),
  (pe.filesystems = { MEMFS: ge, NODEFS: ue })
},

init: function (e, t, r) {
  (pe.init.initialized = !0),
  pe.ensureErrnoError(),
  (o.stdin = e || o.stdin),
  (o.stdout = t || o.stdout),
  (o.stderr = r || o.stderr),
  pe.createStandardStreams()
},

quit: function () {
  pe.init.initialized = !1
  var e = o._fflush
  e && e(0)
  for (var t = 0; t < pe.streams.length; t++) {
    var r = pe.streams[t]
    r && pe.close(r)
  }
},

getMode: function (e, t) {
  var r = 0
  return e && (r |= 365), t && (r |= 146), r
}.
joinPath: function (e, t) {
    var r = ie.join.apply(null, e)
    return t && 'r[0] && (r = r.substr(1)), r
}

absolutePath: function (e, t) {
    return ae.resolve(t, e)
}

standardizePath: function (e) {
    return ie.normalize(e)
}

findObject: function (e, t) {
    var r = pe.analyzePath(e, t)
    return r.exists ? r.object : (se(r.error), null)
}

analyzePath: function (e, t) {
    try {
        e = (A = pe.lookupPath(e, { follow: !t })).path
    } catch (e) {
        var r = {
            isRoot: !1,
            exists: !1,
            error: 0,
            name: null,
            path: null,
            object: null,
            parentExists: !1,
            parentPath: null,
            parentObject: null,
        }
        try {
            A = pe.lookupPath(e, { parent: !0 })
            (r.parentExists = !0),
            (r.parentPath = A.path),
            (r.parentObject = A.node),
            (r.name = ie.basename(e)),
            (A = pe.lookupPath(e, { follow: !t })),
            (r.exists = !0),
            (r.path = A.path),
            (r.object = A.node),
            (r.name = A.node.name),
            (r.isRoot = r[0] == A.path)
        } catch (e) {
            r.error = e.errno
        }
    } catch (e) {
        return r
    }

createFolder: function (e, t, r, A) {
    var n = ie.join2('string' === typeof e ? e : pe.getPath(e), t),
    }
o = pe.getMode(r, A)
return pe.mkdir(n, o)
},
createPath: function (e, t, r, A) {
    e = 'string' == typeof e ? e : pe.getPath(e)
    for (var n = t.split('/').reverse(); n.length; ) {
        var o = n.pop()
        if (o) {
            var i = ie.join2(e, o)
            try {
                pe.mkdir(i)
            } catch (e) {}
            e = i
        }
    }
    return i
},
createFile: function (e, t, r, A, n) {
    var o = ie.join2('string' == typeof e ? e : pe.getPath(e), t),
        i = pe.getMode(A, n)
    return pe.create(o, i)
},
createDataFile: function (e, t, r, A, n, o) {
    var i = t
    ? ie.join2('string' == typeof e ? e : pe.getPath(e), t)
    : e,
    s = pe.getMode(A, n),
    a = pe.create(i, s)
    if (r) {
        if ('string' == typeof r) {
            for (var c = new Array(r.length), g = 0, l = r.length;
                g < l;
                ++g
            )
                c[g] = r.charCodeAt(g)
        }
        pe.chmod(a, 146 | s)
        var u = pe.open(a, 'w')
        pe.write(u, r, 0, r.length, 0, o), pe.close(u), pe.chmod(a, s)
    }
    return a
},
createDevice: function (e, t, r, A) {
    var n = ie.join2('string' == typeof e ? e : pe.getPath(e), t),
        o = pe.getMode(!r, !!A)
    pe.createDevice.major || (pe.createDevice.major = 64)
var i = pe.makedev(pe.createDevice.major++, 0)
return {
    pe.registerDevice(i, {
        open: function (e) {
            e.seekable = !1
        },
        close: function (e) {
            A && A.buffer && A.buffer.length && A(10)
        },
        read: function (e, t, A, n, o) {
            for (var i = 0, s = 0; s < n; s++) {
                var a
                try {
                    a = r()
                } catch (e) {
                    throw new pe.ErrnoError(29)
                }
                if (void 0 === a && 0 === i) throw new pe.ErrnoError(6)
                if (null == a) break
                i++, (t[A + s] = a)
            }
            return i && (e.node.timestamp = Date.now()), i
        },
        write: function (e, t, r, n, o) {
            for (var i = 0; i < n; i++)
                try {
                    A(t[r + i])
                } catch (e) {
                    throw new pe.ErrnoError(29)
                }
            return n && (e.node.timestamp = Date.now()), i
        },
    }),
    pe.mkdev(n, o, i)
},
createLink: function (e, t, r, A, n) {
    var o = ie.join2('string' == typeof e ? e : pe.getPath(e), t)
    return pe.symlink(r, o)
},
forceLoadFile: function (e) {
    if (e.isFile || e.isDirectory || e.isFile || e.contents) return !0
    var t = 0
    if ('undefined' != typeof XMLHttpRequest)
        throw new Error(
            'Lazy loading should have been performed (contents set) in createLazyFile, but it was not. Lazy loading only works in web workers. Use --embed-file or --preload-file in emcc on the main thread.'
        )
}
```javascript
if (!s)
    throw new Error('Cannot load without read() or XMLHttpRequest.

try {
    (e.contents = we(s(e.url), !0)),
    (e.usedBytes = e.contents.length)
} catch (e) {
    t = !1
}
return t || se(29), t
},
createLazyFile: function (e, t, r, A, n) {
    function o() {
        (this.lengthKnown = !1), (this.chunks = [])
    }
    if (
        (o.prototype.get = function (e) {
            if (!(e > this.length - 1 || e < 0)) {
                var t = e % this.chunkSize,
                    r = (e / this.chunkSize) | 0
                return this.getter(r)[t]
            }
        }),
        (o.prototype.setDataGetter = function (e) {
            this.getter = e
        }),
        (o.prototype.cacheLength = function () {
            var e = new XMLHttpRequest()
            if (e.open('HEAD', r, !1),
                e.send(null),
                !((e.status >= 200 && e.status < 300) || 304 === e.status))
            )
                throw new Error(
                    "Couldn't load " + r + '. Status: ' + e.status,
                )
            var t,
                A = Number(e.getResponseHeader('Content-length')),
                n =
                    (t = e.getResponseHeader('Accept-Ranges')) &&
                    'bytes' === t,
                o =
                    (t = e.getResponseHeader('Content-Encoding')) &&
                    'gzip' === t,
                i = 1048576
            n || (i = A)
            var s = this
            s.setDataGetter(function (e) {
                var t = e * i,
```

n = (e + 1) * i - 1
if (n = Math.min(n, A - 1)),
void 0 === s.chunks[e] &
(s.chunks[e] = (function (e, t) {
  if (e > t)
    throw new Error('invalid range (' +
    e +
    ',' +
    t +
    ')' or no bytes requested!');
})
if (t > A - 1)
  throw new Error('only ' +
  A +
  ' bytes available! programmer error!');
var n = new XMLHttpRequest()
  if (n.open('GET', r, !1),
  A !== i &
      n.setRequestHeader(
        'Range',
        'bytes=' + e + '-' + t,
      ),
'undefined' !== typeof Uint8Array &
      (n.responseType = 'arraybuffer'),
      n.overrideMimeType &
      n.overrideMimeType(
        'text/plain; charset=x-user-defined',
      ),
    n.send(null),
      !(n.status >= 200 && n.status < 300) ||
      304 === n.status)
  )
  throw new Error('Couldnt load "' + r + '". Status: ' + n.status,
  )
return void 0 !== n.responseText
  ? new Uint8Array(n.responseText || [])
  : we(n.responseText || '', !0)
})(t, n),
void 0 === s.chunks[e])
)
throw new Error('doXHR failed!')
return s.chunks[e]
},
(!o &amp;&amp; A)) ||
((i = A = 1),
(A = this.getter(0).length),
(i = A),
h(  
'LazyFiles on gzip forces download of the whole file when length is accessed',

),
(this._length = A),
(this._chunkSize = i),
(this.lengthKnown = !0)
}),
'undefined' != typeof XMLHttpRequest)
)
throw 'Cannot do synchronous binary XHRs outside webworkers in modern browsers. Use --embed-file or
--preload-file in emcc'
var i = { isDevice: !1, url: r },
s = pe.createFile(e, t, i, A, n)
i.contents
? (s.contents = i.contents)
: i.url &amp;&amp; ((s.contents = null), (s.url = i.url)),
Object.defineProperties(s, {
  usedBytes: {
    get: function () {
      return this.contents.length
    },
  },
})
var a = {}
return (  
  Object.keys(s.stream_ops).forEach(function (e) {
    var t = s.stream_ops[e]
a[e] = function () {
      if (!pe.forceLoadFile(s)) throw new pe.ErrnoError(29)
      return t.apply(null, arguments)
    }
  }),
  (a.read = function (e, t, r, A, n) {
    if (!pe.forceLoadFile(s)) throw new pe.ErrnoError(29)
    var o = e.node.contents
    if (n &gt;= o.length) return 0
    var i = Math.min(o.length - n, A)
    if (o.slice) for (var a = 0; a &lt; i; a++) t[r + a] = o[n + a]
    else for (a = 0; a &lt; i; a++) t[r + a] = o.get(n + a)
    return i
  })
});
(s.stream_ops = a),
    s
  }
},
createPreloadedFile: function (e, t, r, A, n, i, s, a, c, g) {
  Browser.init()
  var l = t ? ae.resolve(ie.join2(e, t)) : e
  function u(r) {
    function u(r) {
      g && g(),
      a || pe.createDataFile(e, t, r, A, n, c),
      i && i(),
      V()
    }
    var h = !1
    o.preloadPlugins.forEach(function (e) {
      h ||
      (e.canHandle(l) &&
      (e.handle(r, l, u, function () {
        s &&& s(), V()
      })),
      (h = !0)))
    }),
    h || u(r)
  }
  X(),
  'string' == typeof r
  ? Browser.asyncLoad(  
    function (e) {
      u(e)
    },
    s,
  ),
  : u(r)
},
indexedDB: function () {
  return (  
    windowindexedDB ||
    window.mozIndexedDB ||
    window.webkitIndexedDB ||
    window.msIndexedDB
  )
},
DB_NAME: function () {
  return 'EM_FS_' + window.location.pathname
},
DB_VERSION: 20,
DB_STORE_NAME: 'FILE_DATA',
saveFilesToDB: function (e, t, r) {
    ;(t = t || function () { }), (r = r || function () { })
    var A = pe.indexedDB()
    try {
        var n = A.open(pe.DB_NAME(), pe.DB_VERSION)
    } catch (e) {
        return r(e)
    }
    ;(n.onupgradeneeded = function () {
        h('creating db'), n.result.createObjectStore(pe.DB_STORE_NAME)
    }),
    (n.onsuccess = function () {
        var A = n.result.transaction([pe.DB_STORE_NAME], 'readwrite'),
            o = A.objectStore(pe.DB_STORE_NAME),
            i = 0,
            s = 0,
            a = e.length
        function c() {
            0 == s ? t() : r()
        }
        e.forEach(function (e) {
            var t = o.put(pe.analyzePath(e).object.contents, e)
            ;(t.onsuccess = function () {
                ++i + s == a && c()
            }),
            (t.onerror = function () {
                s++, i + s == a && c()
            }),
            (A.onerror = r)
        }),
        (n.onerror = r)
    }),
    loadFilesFromDB: function (e, t, r) {
    ;(t = t || function () { }), (r = r || function () { })
    var A = pe.indexedDB()
    try {
        var n = A.open(pe.DB_NAME(), pe.DB_VERSION)
    } catch (e) {
        return r(e)
    }
    ;(n.onupgradeneeded = r),
    (n.onsuccess = function () {
        var A = n.result
        try {
            var o = A.transaction([pe.DB_STORE_NAME], 'readonly')
        } catch (e) {
            (n.onerror = r)
        }
    })
return void r(e)
}
var i = o.objectStore(pe.DB_STORE_NAME),
s = 0,
a = 0,
c = e.length
function g() {
0 == a ? t() : r()
}
e.forEach(function (e) {
var t = i.get(e)
:t.onsuccess = function () {
pe.analyzePath(e).exists && pe.unlink(e),
pe.createDataFile(
ie.dirname(e),
ie.basename(e),
t.result,
!0,
!0,
!0,
),
++s + a == c && g()
}),
t.onerror = function () {
 a++, s + a == c && g()
})
),
(o.onerror = r)
}),
(n.onerror = r)
},
mmapAlloc: function (e) {
for (var t = (function (e, t) {
return t || (t = 16), Math.ceil(e / t) * t
})(e, 16384),
r = Le(t);
e < t;
}
N[r + e++] = 0
return r
},
}
de = {
 mappings: {},
 DEFAULT_POLLMASK: 5,
 umask: 511,
calculateAt: function (e, t) {
    if ('/' !== t[0]) {
        var r
        if (-100 === e) r = pe.cwd()
        else {
            var A = pe.getStream(e)
            if (!A) throw new pe.ErrnoError(8)
            r = A.path
        }
        t = ie.join2(r, t)
    }
    return t
},
doStat: function (e, t, r) {
    try {
        var A = e(t)
    } catch (e) {
        if (e &&
            e.node &&
            ie.normalize(t) !== ie.normalize(pe.getPath(e.node))
        )
            return -54
        throw e
    }
    return (M[r >> 2] = A.dev),
    (M[(r + 4) >> 2] = 0),
    (M[(r + 8) >> 2] = A.ino),
    (M[(r + 12) >> 2] = A.mode),
    (M[(r + 16) >> 2] = A.nlink),
    (M[(r + 20) >> 2] = A.uid),
    (M[(r + 24) >> 2] = A.gid),
    (M[(r + 28) >> 2] = A.rdev),
    (M[(r + 32) >> 2] = 0),
    (te = [
        A.size >>> 0,
        ((ee = A.size),
        +Y(ee) >= 1
        ? ee > 0
        ? (0 | !J(+H(ee / 4294967296), 4294967295)) >>> 0
        : ~~~+G((ee - +(~~ee >>> 0)) / 4294967296) >>> 0
        : 0),
    ],
    (M[(r + 40) >> 2] = te[0]),
    (M[(r + 44) >> 2] = te[1]),
    (M[(r + 48) >> 2] = 4096),
    (M[(r + 52) >> 2] = A.blocks),
(M[(r + 56) >> 2] = (A.atime.getTime() / 1e3) | 0),
(M[(r + 60) >> 2] = 0),
(M[(r + 64) >> 2] = (A.mtime.getTime() / 1e3) | 0),
(M[(r + 68) >> 2] = 0),
(M[(r + 72) >> 2] = (A.ctime.getTime() / 1e3) | 0),
(M[(r + 76) >> 2] = 0),
(te = [
A.ino >>> 0,
((ee = A.ino),
+Y(ee) >= 1
? ee > 0
? (0 | J(+H(ee / 4294967296), 4294967295)) >>> 0
: ~~~+G((ee - +(~~ee >>> 0)) / 4294967296) >>> 0
: 0),
]).
(M[(r + 80) >> 2] = te[0]),
(M[(r + 84) >> 2] = te[1]),
0
)
}.
doMsync: function (e, t, r, A, n) {
    var o = F.slice(e, e + r)
    pe.msync(t, o, n, r, A)
}.
doMkdir: function (e) {
    return ('/' === (e = ie.normalize(e))[e.length - 1] &&
            (e = e.substr(0, e.length - 1)),
            pe.mkdir(e, t, 0),
            0)
}.
doMknod: function (e, t, r) {
    switch (61440 & t) {
        case 32768:
        case 8192:
        case 24576:
        case 4096:
        case 49152:
            break
        default:
            return -28
    }
    return pe.mknod(e, t, r), 0
}.
doReadlink: function (e, t, r) {
    if (t <= 0) return -28
    var A = pe.readlink(e),
\begin{verbatim}
n = Math.min(r, v(A)),
o = N[t + n]
return b(A, t, r + 1), (N[t + n] = o), n
}
doAccess: function (e, t) {
  if (-8 & t) return -28
  var r
  if (!r = pe.lookupPath(e, { follow: !0 }).node)) return -44
  var A = 
    4 & t && (A += 'r'),
    2 & t && (A += 'w'),
    1 & t && (A += 'x'),
    A && pe.nodePermissions(r, A) ? -2 : 0
}
}
doDup: function (e, t, r) {
  var A = pe.getStream(r)
  return A && pe.close(A), pe.open(e, t, 0, r).fd
}
doReadv: function (e, t, r, A) {
  for (var n = 0, o = 0; o < r; o++) {
    var i = M[(t + 8 * o) >> 2],
    s = M[(t + (8 * o + 4)) >> 2],
    a = pe.read(e, N, i, s, A)
    if (a < 0) return -1
    if (((n += a), a < s)) break
  }
  return n
}
doWritev: function (e, t, r, A) {
  for (var n = 0, o = 0; o < r; o++) {
    var i = M[(t + 8 * o) >> 2],
    s = M[(t + (8 * o + 4)) >> 2],
    a = pe.write(e, N, i, s, A)
    if (a < 0) return -1
    n += a
  }
  return n
}
varargs: void 0,
get: function () {
  return (de.varargs += 4), M[(de.varargs - 4) >> 2]
}
getStr: function (e) {
  return Q(e)
}
getStreamFromFD: function (e) {
\end{verbatim}
```javascript
var t = pe.getStream(e)
if (!t) throw new pe.ErrnoError(8)
return t
},
get64: function (e, t) {
    return e
},
}
function Ce(e) {
    try {
        return C.grow((e - k.byteLength + 65535) >>> 16), L(C.buffer), 1
    } catch (e) {}  
}
var fe = function (e, t, r, A) {
    e || (e = this),
    (this.parent = e),
    (this.mount = e.mount),
    (this.mounted = null),
    (this.id = pe.nextInode++),
    (this.name = t),
    (this.mode = r),
    (this.node_ops = {}),
    (this.stream_ops = {}),
    (this.rdev = A)
}
Object.defineProperties(fe.prototype, {
    read: {
        get: function () {
            return 365 == (365 & this.mode)
        },
        set: function (e) {
            e ? (this.mode |= 365) : (this.mode &= -366)
        },
    },
    write: {
        get: function () {
            return 146 == (146 & this.mode)
        },
        set: function (e) {
            e ? (this.mode |= 146) : (this.mode &= -147)
        },
    },
    isFolder: {
        get: function () {
            return pe.isDir(this.mode)
        },
    },
    isDevice: {
```
get: function () {
    return pe.isChrdev(this.mode)
},
},

(pe.FSNode = fe),
pe.staticInit()
var le = n,
Ee = r(85622)
ue.staticInit()

var Be = function (e) {
    return function () {
        try {
            return e.apply(this, arguments)
        } catch (e) {
            if (!e.code) throw e
            throw new pe.ErrnoError(le[e.code])
        }
    }
},
}

ye = Object.assign({}, pe)
for (var me in he) pe[me] = Be(he[me])

function we(e, t, r) {
    var A = r > 0 ? r : v(e) + 1,
    n = new Array(A),
    o = D(e, n, 0, n.length)
    return t && (n.length = o), n
}

'function' == typeof atob && atob

function Qe(e) {
    if (Z(e))
        return (function (e) {
            var t
            try {
                t = Buffer.from(e, 'base64')
            } catch (r) {
                t = new Buffer(e, 'base64')
            }
            return new Uint8Array(t.buffer, t.byteOffset, t.byteLength)
        })(e.slice('data:application/octet-stream;base64,'.length))
}

var De,
be = {
    m: function (e, t) {
        return oe(e, t)
    },
    b: f,
    r: function (e, t) {
try {
    return (e = de.getStr(e)), pe.chmod(e, t), 0
} catch (e) {
    return (void 0 !== pe & e instanceof pe.ErrnoError) || _(e), -e.errno
}
}

g: function (e, t, r) {
    de.varargs = r
    try {
        var A = de.getStreamFromFD(e)
        switch (t) {
        case 0:
            return (n = de.get()) < 0 ? -28 : pe.open(A.path, A.flags, 0, n).fd
        case 1:
        case 2:
            return 0
        case 3:
            return A.flags
        case 4:
            var n = de.get()
            return (A.flags | n), 0
        case 12:
            n = de.get()
            return (K[(n + 0) >> 1] = 2), 0
        case 13:
        case 14:
            return 0
        case 16:
        case 8:
            return -28
        case 9:
            return se(28), -1
        default:
            return -28
        }
    } catch (e) {
        return (void 0 !== pe & e instanceof pe.ErrnoError) || _(e), -e.errno
    }
}
},
l: function (e, t) {

try {
    var r = de.getStreamFromFD(e)
    return de.doStat(pe.stat, r.path, t)
} catch (e) {
    return (
        (void 0 !== pe && e instanceof pe.ErrnoError) || _e(e),
        -e.errno
    )
}
},
q: function (e, t, r) {
    de.varargs = r
    try {
        var A = de.getStreamFromFD(e)
        switch (t) {
            case 21509:
                case 21505:
                    return A.tty ? 0 : -59
            case 21510:
                case 21511:
                case 21512:
                case 21506:
                case 21507:
                case 21508:
                    return A.tty ? 0 : -59
            case 21519:
                if (!A.tty) return -59
                var n = de.get()
                return (M[n >> 2] = 0), 0
            case 21520:
                return A.tty ? -28 : -59
            case 21531:
                n = de.get()
                return pe.ioctl(A, t, n)
            case 21523:
            case 21524:
                return A.tty ? 0 : -59
            default:
                _('bad ioctl syscall ' + t)
        }
    } catch (e) {
        return (
            (void 0 !== pe && e instanceof pe.ErrnoError) || _e(e),
            -e.errno
        )
    }
},
t: function (e, t, r) {

de.varargs = r
try {
    var A = de.getStr(e),
    n = de.get()
    return pe.open(A, t, n).fd
} catch (e) {
    return (
        (void 0 !== pe && e instanceof pe.ErrnoError) || _(e),
        -e.errno
    )
}.

s: function (e, t, r) {
try {
    var A = de.getStreamFromFD(e)
    return pe.read(A, N, t, r)
} catch (e) {
    return (
        (void 0 !== pe && e instanceof pe.ErrnoError) || _(e),
        -e.errno
    )
}.

j: function (e, t) {
try {
    return (e = de.getStr(e)), (t = de.getStr(t)), pe.rename(e, t), 0
} catch (e) {
    return (e = de.getStr(e)), (t = de.getStr(t)), pe.rename(e, t), 0
}.

u: function (e) {
try {
    return (e = de.getStr(e)), pe.rmdir(e), 0
} catch (e) {
    return (e = de.getStr(e)), pe.rmdir(e), 0
}.

e: function (e, t) {
try {
    return (e = de.getStr(e)), de.doStat(pe.stat, e, t)
)
      catch (e) {
        return (void 0 !== pe && e instanceof pe.ErrnoError) || (_, e.errno)
      }
    }
  },
  i: function (e) {
    try {
      return (e = de.getStr(e), pe.unlink(e), 0)
    } catch (e) {
      return (void 0 !== pe && e instanceof pe.ErrnoError) || (_, e.errno)
    }
  },
  v: function (e, t, r) {
    F.copyWithin(e, t, t + r)
  },
  w: function (e) {
    e >>>= 0
    var t = F.length
    if (e > 2147483648) return !1
    for (var r, A, n = 1; n <= 4; n *= 2) {
      var o = t * (1 + 0.2 / n)
      if (o = Math.min(o, e + 100663296), Ce(Math.min(2147483648, ((r = Math.max(16777216, e, o)) % (A = 65536) > 0 &
          (r += A - (r % A)), r)), o))
        return !0
    }
    return !1
  },
  h: function (e) {
    try {
      var t = de.getStreamFromFD(e)
      return pe.close(t), 0
    } catch (e) {
      return (void 0 !== pe && e instanceof pe.ErrnoError) || (_, e.errno)
(M[(n + 4) >> 2] = te[1]),
o.getdents && 0 === i && 0 === A && (o.getdents = null),
0)
} catch (e) {
return (
(void 0 !== pe && e instanceof pe.ErrnoError) || _(e), e.errno
)
}
},
f: function (e, t, r, A) {
try {
var n = de.getStreamFromFD(e),
o = de.doWritev(n, t, r)
return (M[A >> 2] = o), 0
} catch (e) {
return (
(void 0 !== pe && e instanceof pe.ErrnoError) || _(e), e.errno
)
}
},
a: C,
c: function (e) {
0 | e
},
d: function (e) {
var t = (Date.now() / 1e3) | 0
return e & (M[e >> 2] = t), t
},
o: function (e) {
!(function e() {
if (!e.called) {
;(e.called = !0),
(M[Ke() >> 2] = 60 * new Date().getTimezoneOffset())
var t = new Date().getFullYear(),
r = new Date(t, 0, 1),
A = new Date(t, 6, 1)
M[Fe() >> 2] = Number(r.getTimezoneOffset() != A.getTimezoneOffset(),
A.getTimezoneOffset() < r.getTimezoneOffset() ? ((M[Ne() >> 2] = i), (M[(Ne() + 4) >> 2] = s))
: ((M[Ne() >> 2] = s), (M[(Ne() + 4) >> 2] = i))
}(function e)
)
var n = a(r),
o = a(A),
i = S(n),
s = S(o)
A.getTimezoneOffset() < r.getTimezoneOffset()
? ((M[Ne() >> 2] = i), (M[(Ne() + 4) >> 2] = s))
: ((M[Ne() >> 2] = s), (M[(Ne() + 4) >> 2] = i))
} function a(e) {


var t = e.toTimeString().match(/\((\[A-Za-z ]+)\)/)[1] : 'GMT'
}
})();

var t = Date.UTC(  
    M[(e + 20) >> 2] + 1900,  
    M[(e + 16) >> 2],  
    M[(e + 12) >> 2],  
    M[(e + 8) >> 2],  
    M[(e + 4) >> 2],  
    M[e >> 2],  
    0,  
),  
    r = new Date(t)  
    M[(e + 24) >> 2] = r.getUTCDay()  
    var A = Date.UTC(r.getUTCFullYear(), 0, 1, 0, 0, 0, 0),  
    n = ((r.getTime() - A) / 864e5) | 0  
    return (M[(e + 28) >> 2] = n), (r.getTime() / 1e3) | 0
},
},
ve = (function () {
    var e = { a: be }
    function t(e, t) {
        var r = e.exports
        ;(o.asm = r), V()
    }
    if ((X(), o.instantiateWasm))
        try {
            return o.instantiateWasm(e, t)
        }
    catch (e) {
        return (function () {
            var r, A, n
            try {
                ;(n = (function () {
                    try {
                        if (d) return new Uint8Array(d)
                        var e = Qe(re)
                        if (e) return e
                        if (a) return a(re)
                        throw "sync fetching of the wasm failed: you can preload it to Module['wasmBinary'] manually, or emcc.py will do that for you when generating HTML (but not JS)"
                    }
                })
            }
        })
    }
    return (function () {
        var r, A, n
        try {
            ;(n = (function () {
                try {
                    if (d) return new Uint8Array(d)
                    var e = Qe(re)
                    if (e) return e
                    if (a) return a(re)
                    throw "sync fetching of the wasm failed: you can preload it to Module['wasmBinary'] manually, or emcc.py will do that for you when generating HTML (but not JS)"
                }
            })
        }
    })
};
_(e)
})
)((),
(A = new WebAssembly.Module(n)),
(r = new WebAssembly.Instance(A, e))
} catch (e) {
  var o = e.toString()
  throw {
    (p('failed to compile wasm module: ' + o),
    (o.indexOf('imported Memory') >= 0 ||
      o.indexOf('memory import') >= 0) &&
    p( 'Memory size incompatibility issues may be due to changing INITIAL_MEMORY at runtime to something too large. Use ALLOW_MEMORY_GROWTH to allow any size memory (and also make sure not to set INITIAL_MEMORY at runtime to something smaller than it was at compile time).',
      ),
    e)
  }
})((),
o.asm)
})()
Se = (o.___wasm_call_ctors = ve.x),
ke =
((o._zipstruct_stat = ve.y),
(o._zipstruct_statS = ve.z),
(o._zipstruct_stat_name = ve.A),
(o._zipstruct_stat_index = ve.B),
(o._zipstruct_stat_size = ve.C),
(o._zipstruct_stat_mtime = ve.D),
(o._zipstruct_error = ve.E),
(o._zipstruct_errorS = ve.F),
(o._zipstruct_error_code_zip = ve.G),
(o._zipstruct_stat_comp_size = ve.H),
(o._zipstruct_stat_comp_method = ve.I),
(o._zip_close = ve.J),
(o._zip_delete = ve.K),
(o._zip_dir_add = ve.L),
(o._zip_discard = ve.M),
(o._zip_error_init_with_code = ve.N),
(o._zip_get_error = ve.O),
(o._zip_file_get_error = ve.P),
(o._zip_error_strerror = ve.Q),
(o._zip_fclose = ve.R),
(o._zip_file_add = ve.S),
(o._zip_file_get_external_attributes = ve.T),
(o._zip_file_set_external_attributes = ve.U),
(o._zip_file_set_mtime = ve.V),
(o._zip_fopen = ve.W),
(o._zip_fopen_index = ve.X),
(o._zip_fread = ve.Y),
(o._zip_get_name = ve.Z),
(o._zip_get_num_entries = ve._),
(o._zip_name_locate = ve.$),
(o._zip_open = ve.aa),
(o._zip_open_from_source = ve.ba),
(o._zip_set_file_compression = ve.ca),
(o._zip_source_buffer = ve.da),
(o._zip_source_buffer_create = ve.ea),
(o._zip_source_close = ve.fa),
(o._zip_source_error = ve.ga),
(o._zip_source_free = ve.ha),
(o._zip_source_keep = ve.ia),
(o._zip_source_open = ve.ja),
(o._zip_source_read = ve.ka),
(o._zip_source_seek = ve.la),
(o._zip_source_set_mtime = ve.ma),
(o._zip_source_tell = ve.na),
(o._zip_stat = ve.oa),
(o._zip_stat_index = ve.pa),
(o._zip_ext_count_symlinks = ve.qa),
(o.__errno_location = ve.rr)),
Ne = (o.__get_tzname = ve.sa),
Fe = (o.__get_daylight = ve.ta),
Ke = (o.__get_timezone = ve.ua),
Me = (o.stackSave = ve.va),
Re = (o.stackRestore = ve.wa),
xe = (o.stackAlloc = ve.xa),
Le = (o._malloc = ve.ya),
o._free = ve.za

function Pe(e) {
    function t() {
        De ||
        ((De = !0),
        (o.calledRun = !0),
        I ||
        (!0,
        o.noFSInit || pe.init.initialized || pe.init(),
        ce.init(),
        Ae(U),
        (pe.ignorePermissions = !1),
        Ae(T),
        o.onRuntimeInitialized && o.onRuntimeInitialized(),
        (function () { [reursive code] } )
    } [reursive code]
}
if (o.postRun)
    for (    
        'function' == typeof o.postRun &&
        (o.postRun = [o.postRun]);
        o.postRun.length;
    )
        (e = o.postRun.shift()), j.unshift(e)
    var e
    Ae(j)
);()

:e = e || 1),

q > 0 ||

!(function () {    
    if (o.preRun)
        for (    
            'function' == typeof o.preRun && (o.preRun = [o.preRun]);
            o.preRun.length;
        )
            (e = o.preRun.shift()), O.unshift(e)
        var e
        Ae(O)
    }();,

q > 0 ||

(o.setStatus
    ? (o.setStatus('Running...'),
        setTimeout(function () {
            setTimeout(function () {
                o.setStatus('')
            }, 1),
            t()
        }, 1))
    : t()));

if (    
    ((o.cwrap = function (e, t, r, A) {    
        var n = (r = r || []).every(function (e) {    
            return 'number' === e
        })
        return 'string' !== n && && !A
        ? B(e)
        : function () {
            return y(e, t, r, arguments)
        }
    }),
    (o.getValue = function (e, t, r) {    

open source used in cisco cloud mailbox defense - cmd (project raptor) april 2021

```
switch ("*" === (t = t || "i8").charAt(t.length - 1) && (t = "i32"), t) {
    case 'i1':
    case 'i8':
        return N[e >> 0]
    case 'i16':
        return K[e >> 1]
    case 'i32':
    case 'i64':
        return M[e >> 2]
    case 'float':
        return R[e >> 2]
    case 'double':
        return x[e >> 3]
    default:
        _('invalid type for getValue: ' + t)
    }
    return null
},
(W = function e() {
    De || Pe(), De || (W = e)
}),
(o.run = Pe),
o.preInit)

for (
    'function' == typeof o.preInit && (o.preInit = [o.preInit]);
    o.preInit.length > 0;

    )
    o.preInit.pop()
Pe()
},
98261: (e) => {
    'use strict'
    function t(e, r, A, n) {
        (this.message = e),
        (this.expected = r),
        (this.found = A),
        (this.location = n),
        (this.name = 'SyntaxError'),
        'function' == typeof Error.captureStackTrace &&
        Error.captureStackTrace(this, t)
    }
    !(function (e, t) {
        function r() {
            this.constructor = e
```
(r.prototype = t.prototype), (e.prototype = new r())
})

(t.buildMessage = function (e, t) {
    var r = {
        literal: function (e) {
            return this{e.text}"
        },
        class: function (e) {
            var t,
                r = ''
                for (t = 0; t < e.parts.length; t++)
                    r +=
                    (e.parts[t] instanceof Array)
                        ? this{o(e.parts[t][0])} - this{o(e.parts[t][1])}
                        : this{o(e.parts[t])}
                return this[{e.inverted ? '^' : ''} {r}]"
            },
        any: function (e) {
            return 'any character'
        },
        end: function (e) {
            return 'end of input'
        },
        other: function (e) {
            return e.description
        }
    }
    function A(e) {
        return e.charCodeAt(0).toString(16).toUpperCase()
    }
    function n(e) {
        return e
            .replace(/\n/g, '\\n')
            .replace(/"/g, '\"')
            .replace(/\0/g, '\0')
            .replace(/\t/g, '\t')
            .replace(/\n/g, '\n')
            .replace(/\r/g, '\r')
            .replace(/\x00-\x0F\x1F\x7F-\x9F]/g, function (e) {
                return \x0' + A(e)
            })
            .replace(/\x10-\x1F\x7F-\x9F]/g, function (e) {
                return \x' + A(e)
            })
    }
    function o(e) {
        return e
    }
.replace(\W/g, "\\W")
.replace(/\y/g, "\\y")
.replace(/\l/g, "\\l")
.replace(/\M/g, "\\M")
.replace(/\s/g, "\\s")
.replace(/\t/g, "\\t")
.replace(/\n/g, "\\n")
.replace(/\r/g, "\\r")

.replace(/\x00-\x0F]/g, function (e) {
  return \x0 + A(e)
})
.replace(/\x10-\x1F\x7F-\x9F]/g, function (e) {
  return \x + A(e)
})

return `Expected $(function (e) {
  var t,
  A,
  n,
  o = new Array(e.length)
  for (t = 0; t < e.length; t++) o[t] = ((n = e[t]), r[n.type](n))
  if ((o.sort(), o.length > 0)) {
    for (t = 1, A = 1; t < o.length; t++)
      o[t - 1] !== o[t] && ((o[A] = o[t]), A++)
    o.length = A
  }
  switch (o.length) {
    case 1:
      return o[0]
    case 2:
      return `${o[0]} or ${o[1]}`
    default:
      return `${o.slice(0, -1).join(', ')}, or ${o[o.length - 1]}`
  }
}(e)) but $(function (e) {
  return e ? "${n(e)}" : 'end of input'
})(t) found.`
),
(e.exports = {
  SyntaxError: t,
  parse: function (e, r) {
    r = void 0 !== r ? r : {};
    var A,
    n = {},
    o = { resolution: D },
    i = D,
    s = E(\'', 1),
    a = E(\@', 1),
c = function () {
    return e.substring(d, p)
},
g = /[^/\@]/,
l = B(['/', '@'], !0, !1),
u = /[^/\]/,
h = B(['@'], !0, !1),
p = 0,
d = 0,
C = [{ line: 1, column: 1 }],
f = 0,
I = []
if ('startRule' in r) {
    if (!r.startRule in o))
        throw new Error(
            'Can’t start parsing from rule "${r.startRule}".
        )
    i = o[r.startRule]
}
function E(e, t) {
    return { type: 'literal', text: e, ignoreCase: t }
}
function B(e, t, r) {
    return { type: 'class', parts: e, inverted: t, ignoreCase: r }
}
function y(t) {
    var r,
        A = C[t]
    if (A) return A
    for (r = t - 1; !C[r]; ) r--
    for (A = { line: (A = C[r]).line, column: A.column }; r < t; )
        10 === e.charCodeAt(r)
            ? (A.line++, (A.column = 1))
            : A.column++,
        r++
    return (C[t] = A), A
}
function m(e, t) {
    var r = y(e),
        A = y(t)
    if (A) return A
    for (r = t - 1; !C[r]; ) r--
    for (A = { line: (A = C[r]).line, column: A.column }; r < t; )
        10 === e.charCodeAt(r)
            ? (A.line++, (A.column = 1))
            : A.column++,
        r++
    return (C[t] = A), A
}
function w(e) {
    p < f || (p > f && ((f = p), (I = [])), I.push(e))
}
function Q(e, r, A) {
    return new t(t.buildMessage(e, r), e, r, A)
}

function D() {
    var t, r, A, o
    return (
        (t = p),
        (r = b()) !== n
    ? (47 === e.charCodeAt(p)
        ? ((A = "/"), p++)
        : ((A = n), w(s)),
        A !== n && (o = b()) !== n
    ? ((d = t), (t = r = { from: r, descriptor: o }))
        : ((p = t), (t = n)))
        : ((p = t), (t = n)),
    t === n &&
    ((t = p),
    (r = b()) !== n &&
    ((d = t),
    (r = (function (e) {
        return { descriptor: e }
    }))(r)),
    (t = r)),
    t
    )
}

function b() {
    var t, r, A, o
    return (
        (t = p),
        (r = v()) !== n
    ? (64 === e.charCodeAt(p)
        ? ((A = '@'), p++)
        : ((A = n), w(a)),
        A !== n &&
        (o = (function () {
            var t, r, A
            ;(t = p),
            (r = []),
            u.test(e.charAt(p))
        ? ((A = e.charAt(p)), p++)
            : ((A = n), w(h))
        if (A !== n)
        for (; A !== n; )
            r.push(A),
            u.test(e.charAt(p))
        ? ((A = e.charAt(p)), p++)
            : ((A = n), w(h))
    )
    )
    )
}
else r = n
r !== n && ((d = t), (r = c()))
return (t = r)
})() !== n
? ((d = t), (t = r = { fullName: r, description: o }))
: ((p = t), (t = n)),
t === n &&
((t = p),
(r = v()) !== n &&
((d = t),
(r = (function (e) {
    return { fullName: e }
})())(r)),
(t = r),
t)
)

function v() {
    var t, r, A
    return (
        (t = p),
        64 === e.charCodeAt(p) ? ((r = '@'), p++) : ((r = n), w(a)),
        r !== n && S() !== n
        ? (47 === e.charCodeAt(p)
            ? ((A = '/'), p++)
            : ((A = n), w(s)),
            A !== n && S() !== n
            ? ((d = t), (t = r = c()))
            : ((p = t), (t = n)))
        : ((p = t), (t = n)),
t === n &&
        ((t = p), (r = S()) !== n && ((d = t), (r = c())), (t = r)),
t)
    )
}

function S() {
    var t, r, A
    if (t)
        ((t = p),
        (r = []),
        g.test(e.charAt(p))
        ? ((A = e.charAt(p)), p++)
        : ((A = n), w(I)),
        A !== n)
    )
    for (; A !== n; )
        r.push(A),
    t
}
g.test(e.charAt(p))
? ((A = e.charAt(p)), p++)
: ((A = n), w(l))
else r = n
return r !== n &
((d = t), (r = c())), (t = r)
}
if ((A = i()) !== n &
p === e.length) return A
throw (A !== n &
p < e.length &
(w({ type: 'end' })),
Q(I,
f < e.length ? e.charAt(f) : null,
f < e.length ? m(f, f + 1) : m(f, f),
)
),
})
,)
}
,)
92962: (e) => {

'use strict'
function t(e, r, A, n) {
;(this.message = e),
(this.expected = r),
(this.found = A),
(this.location = n),
(this.name = 'SyntaxError'),
'function' === typeof Error.captureStackTrace &
Error.captureStackTrace(this, t)
}
!(function (e, t) {
function r() {
this.constructor = e
}
;r.prototype = t.prototype), (e.prototype = new r())
})(t, Error),
(t.buildMessage = function (e, t) {
var r = {
literal: function (e) {
return "" + n(e.text) + ""
},
class: function (e) {
var t,
    r = 
for (t = 0; t < e.parts.length; t++)
    r +=
e.parts[t] instanceof Array
? o(e.parts[t][0]) + "." + o(e.parts[t][1])
: o(e.parts[t])
})

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function A(e) {
  return e.charCodeAt(0).toString(16).toUpperCase()
}

function n(e) {
  return e
    .replace(/\//g, `\\n`)  
    .replace(/\"/g, `\\"`)  
    .replace(/\0/g, `\\0`)  
    .replace(/\t/g, `\\t`)  
    .replace(/\n/g, `\\n`)  
    .replace(/\r/g, `\\r`)  
    .replace(/[\x00-\x0F\x7F-\x9F]/g, function (e) {
      return `\x0` + A(e)
    })  
    .replace(/[\x10-\x1F\x7F-\x9F]/g, function (e) {
      return `\x` + A(e)
    })  
  }

function o(e) {
  return e
    .replace(/\//g, `\\n`)  
    .replace(/\]/g, `\\]`)  
    .replace(/\^/g, `\^`)  
    .replace(/\-/g, `\-`)  
    .replace(/\0/g, `\\0`)  
    .replace(/\t/g, `\\t`)  
    .replace(/\n/g, `\\n`)  
    .replace(/\r/g, `\\r`)  
    .replace(/[\x00-\x0F\x7F-\x9F]/g, function (e) {
      return `\x0` + A(e)
    })  
    .replace(/[\x10-\x1F\x7F-\x9F]/g, function (e) {
      return `\x` + A(e)
    })  
  }

return (}
'Expected ' +
(function (e) {
var t,
A,
n,
o = new Array(e.length)
for (t = 0; t < e.length; t++) o[t] = ((n = e[t]), r[n.type](n))
if ((o.sort(), o.length > 0)) {
for (t = 1, A = 1; t < o.length; t++)
o[t - 1] !== o[t] && ((o[A] = o[t]), A++)
o.length = A
}
switch (o.length) {
case 1:
return o[0]
case 2:
return o[0] + ' or ' + o[1]
default:
return o.slice(0, -1).join(', ') + ', or ' + o[o.length - 1]
}
})(e) +
' but ' +
(function (e) {
return e ? '"' + n(e) + '"' : 'end of input'
})(t) +
' found.'
)
}),
(e.exports = {
SyntaxError: t,
parse: function (e, r) {
r = void 0 !== r ? r : {}
var A,
n = {},
o = { Start: fe },
i = fe,
s = le(';', !1),
a = le('&&', !1),
c = le('||', !1),
g = le('|&', !1),
l = le('|', !1),
u = le('=', !1),
h = le('(', !1),
p = le(')', !1),
d = le('{', !1),
C = le('}', !1),
f = le('>>', !1),
I = le('>&', !1),

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if ('startRule' in r) {
    if (!(r.startRule in o))
        throw new Error('Can\'t start parsing from rule '' + r.startRule + ''.');
    i = o[r.startRule]
}
function le(e, t) {

return { type: 'literal', text: e, ignoreCase: t }
}

function ue(e, t, r) {
    return { type: 'class', parts: e, inverted: t, ignoreCase: r }
}

function he(t) {
    var r,
        A = se[t]
    if (A) return A
    for (r = t - 1; !se[r]; ) r--
    for (A = { line: (A = se[r]).line, column: A.column }; r < t; )
        if (10 === e.charCodeAt(r))
            A.line++, (A.column = 1))
        else A.column++,
        r++
    return (se[t] = A), A
}

function pe(e, t) {
    var r = he(e),
        A = he(t)
    return {
        start: { offset: e, line: r.line, column: r.column },
        end: { offset: t, line: A.line, column: A.column },
    }
}

function de(e) {
    oe < ae || (oe > ae && ((ae = oe), (ce = [])), ce.push(e))
}

function Ce(e, r, A) {
    return new t(t.buildMessage(e, r), e, r, A)
}

function fe() {
    var e, t
    return (
        e = oe),
        (t = Ie()) === n && (t = null),
        t !== n && ((ie = e), (t = t || [])),
        (e = t)
    )
}

function Ie() {
    var e, t, r, A, o
    if (((e = oe), (t = Be()) !== n)) {
        for (r = [], A = Te(); A !== n; ) r.push(A), (A = Te())
        r !== n && (A = Ee()) !== n
            ? ((o = (function () {
                    var e, t, r, A, o
                    ;(e = oe), (t = []), (r = Te())
                })
            )
            )
            }
    }
}
for (; r !== n; ) t.push(r), (r = Te())
if (t !== n)
if ((r = ye()) !== n) {
    for (A = [], o = Te(); o !== n; )
        A.push(o), (o = Te())
    A !== n ? ((ie = e), (e = t = r))
    : ((oe = e), (e = n))
} else (oe = e), (e = n)
else (oe = e), (e = n)
return e
})()) !== n && (o = null),
o !== n
if ((ie = e), (e = t = r))
    : ((oe = e), (e = n))
} else (oe = e), (e = n)
if (e === n)
if (((e = oe), (t = Be()) !== n)) {
    for (r = [], A = Te(); A !== n; ) r.push(A), (A = Te())
    r !== n ? ((A = Ee()) !== n && (A = null),
        A !== n ? ((ie = e),
            (e = t = (function (e, t) {
                return [e]
            })(t)))
            : ((oe = e), (e = n))
        : ((oe = e), (e = n))
} else (oe = e), (e = n)
return e
}
function Ee() {
    var t
    return (59 === e.charCodeAt(oe)
    ? ((t = ';'), oe++)
    : ((t = n), 0 === ge && de(s)),
        t
    )
}
function Be() {
    var t, r, A, o, i
    return (t = oe),
            (r = ye()) !== n
    ? ((A = (function () {
                    var t, r, A, o, i, s, g
for (; A !== n; ) r.push(A), (A = Te())
if (r !== n)
  if (40 === e.charCodeAt(oe))
    ? ((A = '('), oe++)
    : ((A = n), 0 === ge && de(h)),
A !== n)
) {
  for (o = [], i = Te(); i !== n; ) o.push(i), (i = Te())
if (o !== n)
  if ((i = le()) !== n) {
    for (s = [], a = Te(); a !== n; )
      s.push(a), (a = Te())
if (s !== n)
    if ((i = Ie()) !== n) {
      for (c = [], g = Te(); g !== n; )
        c.push(g), (g = Te())
if (c !== n) {
        for (g = [], l = Qe(); l !== n; )
          g.push(l), (l = Qe())
if (g !== n) {
            for (l = [], u = Te(); u !== n; )
              l.push(u), (u = Te())
          l !== n
  ? (ie = t),
    (t = r = {
      type: 'subshell',
      subshell: i,
      args: g,
    }));
  : ((oe = t), (t = n))
    } else (oe = t), (t = n)
  } else (oe = t), (t = n)
else (oe = t), (t = n)
    } else (oe = t), (t = n)
else (oe = t), (t = n)
    } else (oe = t), (t = n)
else (oe = t), (t = n)
if (t !== n) {
  for (t = oe, r = [], A = Te(); A !== n; )
    r.push(A), (A = Te())
if (r !== n)
if (123 === e.charCodeAt(oe)
  ? ((A = ' '), oe++)
  : ((A = n), 0 === ge && de(d)),
  A !== n)
) {
for (o = [], i = Te(); i !== n; )
o.push(i), (i = Te())
if (o !== n)
if ((i = Le()) !== n) {
for (s = [], a = Te(); a !== n; )
s.push(a), (a = Te())
if (s !== n)
if ((i = Ie()) !== n) {
for (c = [], g = Te(); g !== n; )
c.push(g), (g = Te())
if (c !== n) {
for (g = [], l = Qe(); l !== n; )
g.push(l), (l = Qe())
if (g !== n) {
for (l = [], u = Te(); u !== n; )
l.push(u), (u = Te())
l !== n
  ? ((ie = t),
    (r = (function (e, t) {
      return {
        type: 'group',
        group: e,
        args: t,
      })(i, g)),
    (t = r))
  : ((oe = t), (t = n))
} else (oe = t), (t = n)
} else (oe = t), (t = n)
else (oe = t), (t = n)
else (oe = t), (t = n)
} else (oe = t), (t = n)
else (oe = t), (t = n)}
for (t = oe, r = []; A = Te(); A !== n; )
  r.push(A), (A = Te())
if (r !== n) {
  for (A = [], o = me(); o !== n; )
    A.push(o), (o = me())
  if (A !== n) {
    for (o = [], i = Te(); i !== n; )
      o.push(i), (i = Te())
    if (o !== n) {
      for (o = [], i = Te(); i !== n; )
        o.push(i), (i = Te())
      if (o !== n) {
        if (((i = []), (s = we()) !== n))
          for (; s !== n; ) i.push(s), (s = we())
        else i = n
      if (i !== n) {
        for (s = [], a = Te(); a !== n; )
          s.push(a), (a = Te())
      s !== n
        ? ((ie = t),
          (r = (function (e, t) {
            return {
              type: 'command',
              args: t,
              envs: e,
            }
          })(A, i)),
          (t = r))
        : ((oe = t), (t = n))
      } else (oe = t), (t = n)
    } else (oe = t), (t = n)
  } else (oe = t), (t = n)
if (t === n) {
  for (t = oe, r = []; A = Te(); A !== n; )
    r.push(A), (A = Te())
  if (r !== n) {
    for ((A = []), (o = me()) !== n))
      for (; o !== n; ) A.push(o), (o = me())
  } else (oe = t), (t = n)
else A = n
if (A !== n) {
  for (o = [], i = Te(); i !== n; )
    o.push(i), (i = Te())
  o !== n
  ? ((ie = t),
    (t = r = { type: 'envs', envs: A })),
    (t = t = n))
} else (oe = t), (t = n)
} else (oe = t), (t = n)
if (e.charCodeAt(oe) === 61)
    ((A = '='), oe++)
: ((A = n), 0 === ge && de(u)),
A !== n)
)
if ((o = be()) !== n) {
    for (i = [], s = Te(); s !== n; ) i.push(s), (s = Te())
    i !== n
        ? ((ie = t), (t = r = { name: r, args: [o] } ))
        : ((oe = t), (t = n))
    else (oe = t), (t = n)
else (oe = t), (t = n)
if (t === n)
    if (((t = oe), (r = Le()) !== n))
        if (e.charCodeAt(oe) === 61)
            ((A = '='), oe++)
        : ((A = n), 0 === ge && de(u)),
A !== n)
    }
    for (o = [], i = Te(); i !== n; ) o.push(i), (i = Te())
    o !== n
        ? ((ie = t),
            (t = r = (function (e) {
                return { name: e, args: [] } });
            ) (r))
            : ((oe = t), (t = n))
        else (oe = t), (t = n)
    else (oe = t), (t = n)
    return t
}
function we() {
    var e, t, r
    for (e = oe, t = [], r = Te(); r !== n; ) t.push(r), (r = Te())
    if (t !== n && (r = Qe()) !== n
            ? ((ie = e), (e = t = r))
            : ((oe = e), (e = n)),
e !== n)
    }
    for (e = oe, t = [], r = Te(); r !== n; )
        t.push(r), (r = Te())
    t !== n && (r = De()) !== n
            ? ((ie = e), (e = t = r))
            : ((oe = e), (e = n))
}
return e
}

function Qe() {
  var t, r, A, o
  for (t = oe, r = [], A = Te(); A !== n; ) r.push(A), (A = Te())
  return (r !== n &&
    (A = (function () {
      var t
      '>>' === e.substr(oe, 2)
        ? ((t = '>>'), (oe += 2))
        : ((t = n), 0 === ge && & de(f))
      t === n &&
        ('>>&' === e.substr(oe, 2)
          ? ((t = '>>&'), (oe += 2))
          : ((t = n), 0 === ge && & de(I)),
        t === n &&
          (62 === e.charCodeAt(oe)
            ? ((t = '>', oe++)
            : ((t = n), 0 === ge && & de(E)),
        t === n &&
          ('<<<' === e.substr(oe, 3)
            ? ((t = '<<<'), (oe += 3))
            : ((t = n), 0 === ge && & de(B)),
        t === n &&
          ('<&' === e.substr(oe, 2)
            ? ((t = '<&'), (oe += 2))
            : ((t = n), 0 === ge && & de(y)),
        t === n &&
          (60 === e.charCodeAt(oe)
            ? ((t = '<'), oe++)
            : ((t = n), 0 === ge && & de(m))))))))
    return t
    )))) !== n &&
  (o = De()) !== n
  ? ((ie = t),
    (t = r = { type: 'redirection', subtype: A, args: [o] })))
  : ((oe = t), (t = n)),
  t
}

function De() {
  var e, t, r
  for (e = oe, t = [], r = Te(); r !== n; ) t.push(r), (r = Te())
  return (t !== n &&
    (r = be()) !== n
    ? ((ie = e), (e = t = r))
    : ((oe = e), (e = n)),

```javascript
function be() {
    var e, t, r, A;
    if((((e = oe), (t = []), (r = ve()) !== n))
        for (; r !== n; ) t.push(r), (r = ve())
        else t = n
    return (t !== n &&
            ((ie = e),
             (A = t),
             (t = { type: 'argument', segments: [], concat(...A) }),
             (e = t)
            )
    )
}

function ve() {
    var t, r
    return (t = oe),
            (r = (function () {
                     var t, r, A, o;
                     (t = oe),
                     39 === e.charCodeAt(oe)
                     ? ((r = ""), oe++)
                     : ((r = n), 0 === ge && de(w))
                r !== n &&
                (A = (function () {
                        var t, r, A, o, i;
                        (t = oe),
                        (r = []),
                        (A = oe),
                        92 === e.charCodeAt(oe)
                        ? ((o = \"\"), oe++)
                        : ((o = n), 0 === ge && de(b))
                    o !== n
                    ? (e.length > oe
                        ? ((i = e.charAt(oe)), oe++)
                        : ((i = n), 0 === ge && de(v)),
                    i !== n
                    ? ((ie = A), (A = o = i))
                    : ((oe = A), (A = n)))
                    : ((oe = A), (A = n))
                A !== n &&
                (S.test(e.charAt(oe)))
                ? ((A = e.charAt(oe)), oe++)
                : ((A = n), 0 === ge && de(k))
            for (; A !== n; )
```

r.push(A),
(A = oe),
92 === e.charCodeAt(oe)
? ((o = '\'), oe++)
: ((o = n), 0 === ge & de(b)),
0 !== n

? (e.length > oe

? ((i = e.charAt(oe)), oe++)

: ((i = n), 0 === ge & de(v)),
i !== n

? ((ie = A), (A = o = i))

: ((oe = A), (A = n)))

: ((oe = A), (A = n)),
A === n &&
(S.test(e.charAt(oe))
? ((A = e.charAt(oe)), oe++)

: ((A = n), 0 === ge & de(k))

r !== n && ((ie = t), (r = N(r)))
return (t = r)
})()) !== n

? (39 === e.charCodeAt(oe)

? ((o = '"'), oe++)

: ((o = n), 0 === ge & de(w)),
o !== n

? ((ie = t),

(r = (function (e) {

return [{ type: 'text', text: e }]})

(A)),

(t = r))

: ((oe = t), (t = n)))

: ((oe = t), (t = n))

return t
})(())) !== n && ((ie = t), (r = r)),
(t = r) !== n &
((t = oe),
(r = (function () {

var t, r, A, o
;(t = oe),
34 === e.charCodeAt(oe)

? ((r = '"'), oe++)

: ((r = n), 0 === ge & de(Q))
if (r !== n) {

for (A = [], o = Se(); o !== n; ) A.push(o), (o = Se())

A !== n

? (34 === e.charCodeAt(oe)

? ((o = '"'), oe++)

: ((o = n), 0 === ge & de(Q)),
o !== n


? ((ie = t), (t = r = A))
    : ((oe = t), (t = n)))
    : ((oe = t), (t = n))
} else (oe = t), (t = n)
return t
})(() !== n && ((ie = t), (r = r)),
(t = r) !== n &&
((t = oe),
(r = (function () {
    var e, t, r
    if (((e = oe), (t = []), (r = ke()) !== n))
    for (; r !== n; ) t.push(r), (r = ke())
    else t = n
    t !== n & & ((ie = e), (t = t))
    return (e = t)
})()) !== n && ((ie = t), (r = r)),
(t = r))),
(t = r)));
}

function Se() {
    var t, r, A
    return (
    (t = oe),
    (r = Me()) !== n & &
    ((ie = t),
    (r = { type: 'arithmetic', arithmetic: r, quoted: !0 })),
    (t = r) !== n & &
    ((t = oe),
    (r = Re()) !== n &&
    ((ie = t), (r = { type: 'shell', shell: r, quoted: !0 })),
    (t = r) !== n & &
    ((t = oe),
    (r = xe()) !== n & &
    ((ie = t),
    (r = { type: 'variable', ...A, quoted: !0 })),
    (t = r) !== n & &
    ((t = oe),
    (r = (function () {
        var t, r, A, o, i
        ;(t = oe),
        (r = []),
        (A = oe),
        92 !== e.charCodeAt(oe)
? ((o = 'W'), oe++)
: ((o = n), 0 !== ge & & de(b))
    o !== n

? (e.length > oe
  ? ((i = e.charAt(oe)), oe++)
  : ((i = n), 0 === ge && de(v)),
  i !== n
  ? ((ie = A), (A = o = i))
  : ((oe = A), (A = n)))
  : ((oe = A), (A = n))
A === n &&
(F.test(e.charAt(oe))
  ? ((A = e.charAt(oe)), oe++)
  : ((A = n), 0 === ge && de(K)))
if (A !== n)
for (; A !== n; )
r.push(A),
  (A = oe),
  92 === e.charCodeAt(oe)
  ? ((o = '\'), oe++)
  : ((o = n), 0 === ge && de(b)),
o !== n
  ? (e.length > oe
      ? ((i = e.charAt(oe)), oe++)
      : ((i = n), 0 === ge && de(v)),
      i !== n
        ? ((ie = A), (A = o = i))
        : ((oe = A), (A = n)))
  : ((oe = A), (A = n)),
A === n &&
(F.test(e.charAt(oe))
  ? ((A = e.charAt(oe)), oe++)
  : ((A = n), 0 === ge && de(K)))
else r = n
r !== n && ((ie = t), (r = N(r)))
return (t = r)
})()) !== n && ((ie = t), (r = D(r))),
(t = r))),
t
}

close_readme() { var t, A, o
return (t = oe),
(A = Me()) !== n &&
((ie = t),
(A = { type: 'arithmetic', arithmetic: A, quoted: !1 }),
(t = A) !== n &&
((t = oe),
(A = Re()) !== n &&
((ie = t), (A = { type: 'shell', shell: A, quoted: '!1 ' }),)
(t = A) === n &
((t = oe),
(A = xe()) !== n &
((ie = t),
(o = A),
(A = { type: 'variable', ...o, quoted: '!1 ' }),)
(t = A) === n &
((t = oe),
(A = (function () {
 var t, A
 :(t = oe),
(A = (function () {
 var t, r, A, o, i
 :(t = oe),
(r = []),
(A = oe),
o = oe),
ge++,
(i = Ue()),
ge--,
i === n ? (o = void 0) : ((oe = o), (o = n))
o !== n
? (e.length > oe
 ? ((i = e.charAt(oe)), oe++) :
 ((i = n), 0 === ge &
 & de(v)),
i !== n
? ((ie = A), (A = o = i)) :
 ((oe = A), (A = n)))
: ((oe = A), (A = n))
if (A !== n)
for (; A !== n; )
r.push(A),
(A = oe),
o = oe),
ge++,
(i = Ue()),
ge--,
i === n
? (o = void 0) :
 ((oe = o), (o = n)),
o !== n
? (e.length > oe
 ? ((i = e.charAt(oe)), oe++) :
 ((i = n), 0 === ge &
 & de(v)),
i !== n
? ((ie = A), (A = o = i)) :
 ((oe = A), (A = n)))
}(),
)})

((ie = t), (A = { type: 'shell', shell: A, quoted: '!1 ' }),
(t = A) === n &
((t = oe),
(A = xe()) !== n &
((ie = t),
(o = A),
(A = { type: 'variable', ...o, quoted: '!1 ' }),)
(t = A) === n &
((t = oe),
(A = (function () {
 var t, A
 :(t = oe),
(A = (function () {
 var t, r, A, o, i
 :(t = oe),
(r = []),
(A = oe),
o = oe),
ge++,
(i = Ue()),
ge--,
i === n
? (o = void 0) : ((oe = o), (o = n))
o !== n
? (e.length > oe
 ? ((i = e.charAt(oe)), oe++) :
 ((i = n), 0 === ge &
 & de(v)),
i !== n
? ((ie = A), (A = o = i)) :
 ((oe = A), (A = n)))
: ((oe = A), (A = n))
if (A !== n)
for (; A !== n; )
r.push(A),
(A = oe),
o = oe),
ge++,
(i = Ue()),
ge--,
i === n
? (o = void 0) :
 ((oe = o), (o = n)),
o !== n
? (e.length > oe
 ? ((i = e.charAt(oe)), oe++) :
 ((i = n), 0 === ge &
 & de(v)),
i !== n
? ((ie = A), (A = o = i)) :
 ((oe = A), (A = n)))
}(),
)})
(oe = A), (A = n))
else r = n
r !== n && ((ie = t), (r = N(r)))
return (t = r)
})()) !== n
? ((ie = oe),
(o = A),
(r.isGlobPattern(o) ? void 0 : n) !== n
? ((ie = t), (t = A = A))
: ((oe = t), (t = n)))
: ((oe = t), (t = n))
var o
return t
})() !== n &&
((ie = t), (A = { type: 'glob', pattern: A })),
(t = A) !== n &
((t = oe),
(A = (function () {
var t, r, A, o, i
;t = oe),
(r = []),
(A = oe),
92 === e.charCodeAt(oe)
? ((o = \\), oe++)
: ((o = n), 0 === ge && de(b))
o !== n
? (e.length > oe
 ? ((i = e.charAt(oe)), oe++)
 : ((i = n), 0 === ge && de(v)),
i !== n
? ((ie = A), (A = o = i))
: ((oe = A), (A = n)))
: ((oe = A), (A = n))
A !== n &&
((A = oe),
(o = oe),
ge++,
(i = Oe()),
ge--,
i === n ? (o = void 0) : ((oe = o), (o = n)),
o !== n
? (e.length > oe
 ? ((i = e.charAt(oe)), oe++)
 : ((i = n), 0 === ge && de(v)),
i !== n
? ((ie = A), (A = o = i))
: ((oe = A), (A = n)))
: ((oe = A), (A = n)))
if (A !== n)
for (; A !== n; )
r.push(A),
(A = oe),
92 === e.charCodeAt(oe)
? ((o = '-', oe++)
: ((o = n), 0 === ge && de(b)),
0 !== n
? (e.length > oe
  ? ((i = e.charAt(oe)), oe++)
  : ((i = n), 0 === ge && de(v)),
  i !== n
  ? ((ie = A), (A = o = i))
  : ((oe = A), (A = n)))
  : ((oe = A), (A = n)),
A === n &&
((A = oe),
(o = oe),
ge++,
(i = Oe()),
ge--,
i === n
? (o = void 0)
: ((oe = o), (o = n)),
o !== n
? (e.length > oe
  ? ((i = e.charAt(oe)), oe++)
  : ((i = n), 0 === ge && de(v)),
  i !== n
  ? ((ie = A), (A = o = i))
  : ((oe = A), (A = n)))
  : ((oe = A), (A = n)))
else r = n
r !== n && ((ie = t), (r = N(r)))
return (t = r)
})()) !== n && ((ie = t), (A = D(A))),
(t = A)))));
t
}

function Ne() {
  var t, r, A, o, i, s, a, c
  if ()
    ((t = oe),
  45 === e.charCodeAt(oe)
  ? ((r = '-', oe++)
  : ((r = n), 0 === ge && de(M)),
r === n &&
(43 == e.charCodeAt(oe) 
  ? ((r = '+'), oe++) 
  : ((r = n), 0 == ge & de(R)), 
  r == n & (r = null), 
  r != n) 
  
) { 
  if ( 
    (A = []), 
    x.test(e.charAt(oe)) 
    ? ((o = e.charAt(oe)), oe++) 
    : ((o = n), 0 == ge & de(L)), 
    o != n) 
  for (; o != n; ) 
    A.push(o), 
    x.test(e.charAt(oe)) 
    ? ((o = e.charAt(oe)), oe++) 
    : ((o = n), 0 == ge & de(L)) 
  else A = n 
  if (A == n) 
    if ( 
      (46 == e.charCodeAt(oe) 
       ? ((o = '.'), oe++) 
       : ((o = n), 0 == ge & de(P)), 
      o != n) 
    if ( 
      (i = []), 
      x.test(e.charAt(oe)) 
      ? ((s = e.charAt(oe)), oe++) 
      : ((s = n), 0 == ge & de(L)), 
      s != n) 
    for (; s != n; ) 
      i.push(s), 
      x.test(e.charAt(oe)) 
      ? ((s = e.charAt(oe)), oe++) 
      : ((s = n), 0 == ge & de(L)) 
    else i = n 
    i != n 
  ? ((ie = t), 
    (a = i), 
    (t = r = { 
      type: 'number', 
      value: 
        ('-' == r ? -1 : 1) * 
        parseFloat(A.join(""') + '.' + a.join('")), 
    }))
((oe = t), (t = n))
] else (oe = t), (t = n)
else (oe = t), (t = n)
] else (oe = t), (t = n)
if (t === n) {
  if (t === n) {
        45 !== e.charCodeAt(oe)
      ? ((r = '+'), oe++)
        : ((r = n), 0 === ge && de(M)),
    r === n &&
      (43 !== e.charCodeAt(oe)
        ? ((r = '-'), oe++)
        : ((r = n), 0 === ge && de(R))),
    r === n && (r = null),
    r !== n)
      if (A !== n)
        A.push(o),
      (x.test(e.charAt(oe))
        ? ((o = e.charAt(oe)), oe++)
        : ((o = n), 0 === ge && de(L)),
      o !== n)
        for (; o !== n; )
          A.push(o),
        x.test(e.charAt(oe))
          ? ((o = e.charAt(oe)), oe++)
          : ((o = n), 0 === ge && de(L))
      else A = n
    A !== n
      ? ((ie = t),
        (t = r = (function (e, t) {
          return {
            type: 'number',
            value: ('-' === e ? -1 : 1) * parseInt(t.join('')),
          }
        })(r, A)))
          : ((oe = t), (t = n))
      else (oe = t), (t = n)
    if (t === n &&
        ((t = oe),
      (r = xe()) !== n &&
        (ie = t), (c = r), (r = { type: 'variable', ...c })),
      (t = r) !== n &&
        ((t = oe),
      (r = Pe()) !== n &&
}
(()(e = t), (r = { type: 'variable', name: r }),
(t = r) === n))
)
if (
((t = oe),
40 === e.charCodeAt(oe)
? ((r = 'r'), oe++)
: ((r = n), 0 === ge && de(h)),
r !== n)
)
} 
for (A = [], o = Te(); o !== n; ) A.push(o), (o = Te())
if (A !== n)
if ((o = Ke()) !== n) {
for (i = [], s = Te(); s !== n; )
i.push(s), (s = Te())
i !== n
? (41 === e.charCodeAt(oe)
? ((s = 's'), oe++)
: ((s = n), 0 === ge && de(p)),
s !== n
? ((ie = t), (t = r = o))
: ((oe = t), (t = n)))
: ((oe = t), (t = n))
else (oe = t), (t = n)
else (oe = t), (t = n)
}
return t
}
function Fe() {
var t, r, A, o, i, s
if (((t = oe), (r = Ne()) !== n)) {
for (A = [], o = Te(); o !== n; ) A.push(o), (o = Te())
if (A !== n)
if (
(42 === e.charCodeAt(oe)
? ((o = '*'), oe++)
: ((o = n), 0 === ge && de(O)),
o !== n)
)
} 
for (i = [], s = Te(); s !== n; ) i.push(s), (s = Te())
i !== n && (s = Fe()) !== n
? ((ie = t),
(t = r = {
  type: 'multiplication',
  left: r,
  right: s,
}))

if (((t = oe), (r = Fe()) !== n)) {
    for (A = [], o = Te(); o !== n; ) A.push(o), (o = Te())
    if (A !== n)
        if (45 === e.charCodeAt(oe)
            ? ((o = '-'), oe++)
            : ((o = n), 0 === ge && de(M),
            o !== n)) {
            for (A = [], o = Te(); o !== n; ) A.push(o), (o = Te())
            if (A !== n)
                if (r !== n)
                    for (i = [], s = Te(); s !== n; ) i.push(s), (s = Te())
            i !== n && (s = Ke()) !== n
                ? ((ie = t),
                    (t = r = (function (e, t) {
                        return { type: 'subtraction', left: e, right: t }
                    })(r, s)))
                    : ((oe = t), (t = n))
            } else (oe = t), (t = n)
        else (oe = t), (t = n)
    t === n && (t = Fe())
} return t

function Me() {
    var t, r, A, o, i, s
    if (((t = oe),
        '$(' === e.substr(oe, 3)
        ? ((r = '$('), (oe += 3))
        : ((r = n), 0 === ge && de(T),
        r !== n)) {
                for (A = [], o = Te(); o !== n; ) A.push(o), (o = Te())
            if (A !== n)
                if (r !== n)
                    for (i = [], s = Te(); s !== n; ) i.push(s), (s = Te())
            i !== n
                ? (')' === e.substr(oe, 2)
                    ? ((s = ')'), (oe += 2))
                    : ((s = n), 0 === ge && de(j),
                    s !== n)
                ? (ie = t), (t = r = &)
                    : ((oe = t), (t = n))
            } else (oe = t), (t = n)
        else (oe = t), (t = n)
    t === n && (t = Fe())
} return t
function Re() {
    var t, r, A, o
    return (t = oe),
        '($' === e.substr(oe, 2)
            ? ((r = '$'), (oe += 2))
            : ((r = n), 0 === ge & & de(Y)),
        r !== n & & (A = le()) !== n
            ? (41 === e.charCodeAt(oe)
                ? ((o = ')'), oe++)
                : ((o = n), 0 === ge & & de(p)),
        o !== n ? ((ie = t), (t = r = A))
            : ((oe = t), (t = n)),
    t
)
}

function xe() {
    var t, r, A, o, i, s
    return (t = oe),
        '{' === e.substr(oe, 2)
            ? ((r = '{'), (oe += 2))
            : ((r = n), 0 === ge & & de(G)),
        r !== n & & (A = Pe()) !== n
            ? (':-' === e.substr(oe, 2)
                ? ((o = ':-'), (oe += 2))
                : ((o = n), 0 === ge & & de(H)),
        o !== n && (i = (function () {
            var e, t, r, A, o
            for (e = oe, t = [], r = Te(); r !== n; )
                t.push(r), (r = Te())
            if (t !== n) {
                if (((r = []), (A = De()) !== n))
                    for (; A !== n; ) r.push(A), (A = De())
                else r = n
            else (oe = e), (e = n)
        }())) !== n
            ? (125 === e.charCodeAt(oe)
                ? ((o = '}, (oe = e), (e = n))
                : ((oe = e), (e = n))
        o !== n & &
            (i = (function () {
                var e, t, r, A, o
                for (e = oe, t = [], r = Te(); r !== n; )
                    t.push(r), (r = Te())
                if (t !== n) {
                    if (((r = []), (A = De()) !== n))
                        for (; A !== n; ) r.push(A), (A = De())
                    else r = n
                else (oe = e), (e = n)
            }())) !== n
                ? (125 === e.charCodeAt(oe)
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function Le() {
  ? ((s = '}), oe++)
  : ((s = n), 0 === ge && de(C)),
  s !== n
  ? ((ie = t), (t = r = { name: A, defaultValue: i }))
  : ((oe = t), (t = n)))
  : ((oe = t), (t = n)))
  t === n & &
  ((t = oe),
  '${} === e.substr(oe, 2)
  ? ((r = '${}), (oe += 2))
  : ((r = n), 0 === ge && de(G)),
  r !== n & & (A = Pe()) !== n
  ? ('-} === e.substr(oe, 3)
  ? ((o = '-}'), (oe += 3))
  : ((o = n), 0 === ge && de(J)),
  o !== n
  ? ((ie = t),
    (t = r = (function (e) {
      return { name: e, defaultValue: [] }
    })(A)))
  : ((oe = t), (t = n)))
  : ((oe = t), (t = n)),
  t === n & &
  ((t = oe),
  '${} === e.substr(oe, 2)
  ? ((r = '${}), (oe += 2))
  : ((r = n), 0 === ge && de(G)),
  r !== n & & (A = Pe()) !== n
  ? (125 === e.charCodeAt(oe)
    ? ((o = '}), oe++)
    : ((o = n), 0 === ge && de(C)),
    o !== n
    ? ((ie = t), (t = r = q(A)))
    : ((oe = t), (t = n)))
  : ((oe = t), (t = n)),
  t === n & &
  ((t = oe),
  36 === e.charCodeAtAt(oe)
  ? ((r = '}), oe++)
  : ((r = n), 0 === ge && de(z)),
  r !== n & & (A = Pe()) !== n
  ? ((ie = t), (t = r = q(A)))
  : ((oe = t), (t = n))))),
  t
)
})
var t, r, A
if (
    ((t = oe),
     (r = []),
     W.test(e.charAt(oe))
     ? ((A = e.charAt(oe)), oe++)
     : ((A = n), 0 === ge && de(X)),
     A !== n)
)
for (; A !== n; )
r.push(A),
    W.test(e.charAt(oe))
    ? ((A = e.charAt(oe)), oe++)
    : ((A = n), 0 === ge && de(X))
else r = n
return r !== n && ((ie = t), (r = V())), (t = r)
}
function Pe() {
    var t, r, A
    if (
        ((t = oe),
         (r = []),
         _.test(e.charAt(oe))
         ? ((A = e.charAt(oe)), oe++)
         : ((A = n), 0 === ge && de(Z)),
         A !== n)
    )
    for (; A !== n; )
        r.push(A),
        _.test(e.charAt(oe))
        ? ((A = e.charAt(oe)), oe++)
        : ((A = n), 0 === ge && de(Z))
else r = n
    return r !== n && ((ie = t), (r = V())), (t = r)
}
function Oe() {
    var t
    return (  $.test(e.charAt(oe))
    ? ((t = e.charAt(oe)), oe++)
    : ((t = n), 0 === ge && de(ee)),
    t
    )
}
function Ue() {
    var t
    return (  te.test(e.charAt(oe))
    ? ((t = e.charAt(oe)), oe++)
    : ((t = n), 0 === ge && de(ee)),
    t
    )
}
function Te() {
    var t, r
    if (  
        ((t = []),  
        Ae.test(e.charAt(oe))  
            ? ((r = e.charAt(oe)), oe++)  
            : ((r = n), 0 === ge && de(ne)),  
        r !== n)  
    )  
    for (; r !== n; )  
        t.push(r),  
        Ae.test(e.charAt(oe))  
            ? ((r = e.charAt(oe)), oe++)  
            : ((r = n), 0 === ge && de(ne))  
    else t = n
    return t
}

if ((A = i()) !== n && oe === e.length) return A
throw (  
    (A !== n && oe < e.length && de({ type: 'end' })),  
    Ce(  
        ae < e.length ? e.charAt(ae) : null,  
        ae < e.length ? pe(ae, ae + 1) : pe(ae, ae),  
    )
),
)
}

85443: (e) => {
    'use strict'
    function t(e, r, A, n) {
        (this.message = e),  
        (this.expected = r),  
        (this.found = A),  
        (this.location = n),  
        (this.name = 'SyntaxError'),  
        'function' === typeof Error.captureStackTrace &&  
        Error.captureStackTrace(this, t)
    }

    !(function (e, t) {
        function r() {
            this.constructor = e
        }

        return r
    })(t(e, r, A, n))
}
(r.prototype = t.prototype), (e.prototype = new r())
(t, Error),
(t.buildMessage = function (e, t) {
    var r = {
        literal: function (e) {
            return "\${n(e.text)}"
        },
        class: function (e) {
            var t, r = ''
            for (t = 0; t < e.parts.length; t++)
                r += e.parts[t] instanceof Array
                    ? `${o(e.parts[t][0])}-${o(e.parts[t][1])}`
                    : o(e.parts[t])
            return `\[${e.inverted ? '^' : ''}${r}\]`;
        },
        any: function (e) {
            return 'any character'
        },
        end: function (e) {
            return 'end of input'
        },
        other: function (e) {
            return e.description
        }
    }
    function A(e) {
        return e.charCodeAt(0).toString(16).toUpperCase()
    }
    function n(e) {
        return e
            .replace(/\g{,}/g, '\\W')
            .replace(/\g{,}/g, '\"')
            .replace(/\g{,}/g, '\\0')
            .replace(/\g{,}/g, '\t')
            .replace(/\g{,}/g, '\n')
            .replace(/\g{,}/g, '\r')
            .replace(/\x00-\x0F/g, function (e) {
                return '\x0' + A(e)
            })
            .replace(/\x10-\x1F\x7F-\x9F/g, function (e) {
                return '\x\x' + A(e)
            })
    }
    function o(e) {
        return e
    }
})
c = { type: 'any' },
g = ne(':', !1),
l = function (e, t) {
return { [e]: t }
},
u = ne(',', !1),
h = function (e, t) {
return t
},
p = ie('correct indentation'),
d = ne(' ', !1),
C = ie('pseudostring'),
f = /^[^\r\n\t ?:,\][{}#&*!|>'"%@`\-]/,
I = oe(
[
'\r',
'\n',
'\t',
' ',
'?',
':',
',',
']',
'[',
'{',
'}',
'#',
'&',
'*',
'!',
'|',
'>',
"'",
'"',
'%',
'@',
'`',
'-',
],
!0,
!1,
),
E = /^[^\r\n\t ,\][{}:#"']/,
B = oe(
[
'\r',
'\n',
'\t',

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J = ie('blank space'),
q = /^\[ \t\]/,
z = oe([' ', '\t'], !1, !1),
W =
    (ie('white space'),
     oe([' ', '\t', '\u', '\r'], !1, !1),
     ne('\u', !1)),
X = ne('\u', !1),
V = ne('\r', !1),
_ = 0,
Z = 0,
$ = [{ line: 1, column: 1 }],
ee = 0,
te = [],
re = 0
if ('startRule' in r) {
    if (!(r.startRule in o))
        throw new Error('Can’t start parsing from rule "${r.startRule}".',
            i = o[r.startRule]
    }
    function Ae() {
        return e.substring(Z, _)
    }
    function ne(e, t) {
        return { type: 'literal', text: e, ignoreCase: t }
    }
    function oe(e, t, r) {
        return { type: 'class', parts: e, inverted: t, ignoreCase: r }
    }
    function ie(e) {
        return { type: 'other', description: e }
    }
    function se(t) {
        var r,
            A = $[t]
        if (A) return A
        for (r = t - 1; !$[r]; ) r--
        for (A = { line: A.line, column: A.column }; r < t; )
            10 === e.charCodeAt(r)
                ? (A.line++, (A.column = 1))
                : A.column++,
                r++
        return ($[t] = A), A
    }
    function ae(e, t) {
        var r = se(e),
            A = se(e),
            n = (e.length - r.length),
            X = e.substr(r, e.length - r),
            Y = e.substr(0, r)
A = se(t)
return {
  start: { offset: e, line: r.line, column: r.column },
  end: { offset: t, line: A.line, column: A.column },
}
}
function ce(e) {
  _ < ee || (_ > ee && ((ee = _), (te = [])), te.push(e))
}
function ge(e, r, A) {
  return new t(t.buildMessage(e, r), e, r, A)
}
function le() {
  return he()
}
function ue() {
  var t, r, A
  return (t = _), Ce() !== n ? (45 === e.charCodeAt(_)
    ? ((r = '-'), _++)
    : ((r = n), 0 === re && ce(s)),
    r !== n && be() !== n && (A = de()) !== n
    ? ((Z = t), (t = A))
    : ((_ = t), (t = n))),
    t
  )
}
function he() {
  var e, t, r, A
  for (e = _, t = [], r = pe(); r !== n; ) t.push(r), (r = pe()), (r = pe())
  return (t !== n && ((Z = e), (A = t), (t = Object.assign({ }, ...A))),
  (e = t)
  )
}
function pe() {
  var t, r, A, o, i, s, p, d, C, f, I, E
  if (((t = _), (r = be()) !== n && (r = null), r !== n)) {
    if (((A = _),
        35 === e.charCodeAt(_)
        ? ((o = '#'), _++)
        : ((o = n), 0 === re && ce(a)),
        o !== n)
      )
  }
if (     
    ((i = []), 
    (s = _), 
    (p = _), 
    re++, 
    (d = Se()), 
    re--, 
    d !== n ? (p = void 0) : ((_ = p), (p = n)), 
    p !== n 
    ? (e.length > _ 
        ? ((d = e.charAt(_)), _++) 
        : ((d = n), 0 === re && ce(c)), 
    d !== n ? (s = p = [p, d]) : ((_ = s), (s = n))) 
    : ((_ = s), (s = n)), 
    s !== n) 
) 
for (; s !== n; ) 
i.push(s), 
    (s = _), 
    (p = _), 
    re++, 
    (d = Se()), 
    re--, 
    d !== n ? (p = void 0) : ((_ = p), (p = n)), 
    p !== n 
    ? (e.length > _ 
        ? ((d = e.charAt(_)), _++) 
        : ((d = n), 0 === re && ce(c)), 
    d !== n ? (s = p = [p, d]) : ((_ = s), (s = n))) 
    : ((_ = s), (s = n))
else i = n 
i !== n ? (A = o = [o, i]) : ((_ = A), (A = n)) 
} else (_ = A), (A = n) 
if (((A === n && (A = null), A !== n)) { 
if (((o = []), (i = ve()) !== n)) 
for (; i !== n; ) o.push(i), (i = ve()) 
else o = n 
    o !== n ? ((Z = t), (t = r = [ ])) : ((_ = t), (t = n)) 
} else (_ = t), (t = n) 
} else (_ = t), (t = n) 
if (     
    t !== n && 
    ((t = _), 
    (r = Ce()) !== n && 
    (A = (function () { 
        var e 
        ;(e = ve()) !== n && (e = Be()) 
        return e
```javascript
} else (_ = t), (t = n)
else (_ = t), (t = n)
else (_ = t), (t = n)
else (_ = t), (t = n)
if (t === n)
  if (((t = _), (r = Ce()) !== n))
    if ((A = Ee()) !== n) {
      if (0 === re && ce(u),
          p !== n
          ? ((d = be()) !== n && (d = null),
              d !== n && (C = Ee()) !== n
              ? ((Z = i), (i = s = h(0, C)))
                  : ((._ = i), (i = n)))
              : ((._ = i), (i = n)))
              : ((._ = i), (i = n)))
          : ((._ = i), (i = n)),
          i !== n)
      } for (; i !== n; )
      o.push(i),
      (i = _),
      (s = be()) === n && (s = null),
      s !== n
      ? (44 === e.charCodeAt(_)
          ? ((p = '\', __++)
              : ((p = n), 0 === re && ce(u)),
              p !== n
              ? ((d = be()) !== n && (d = null),
                  d !== n && (C = Ee()) !== n
                  ? ((Z = i), (i = s = h(0, C)))
                      : ((._ = i), (i = n)))
                      : ((._ = i), (i = n)))
                      : ((._ = i), (i = n)))
          : ((._ = i), (i = n)))
      else o = n
      o !== n
      ? ((i = be()) !== n && (i = null),
          i !== n
          ? (58 === e.charCodeAt(_)
              ? ((s = '\'), __++)
                  : ((s = n), 0 === re && ce(g)),
                  s !== n
                  ? ((p = be()) !== n && (p = null),
```
p !== n && (d = de()) !== n
? ((Z = t),
  (f = A),
  (I = o),
  (E = d),
  (t = r = Object.assign(
    {},
    ...[f]
    .concat(I)
    .map((e) => ({ [e]: E })),
  )))
: ((_ = t), (t = n))
: ((_ = t), (t = n))
: ((_ = t), (t = n))
} else (_ = t), (t = n)
else (_ = t), (t = n)
}
return t
}
function de() {
  var t, r, A, o, i, a, c
  if (1
    ((t = _),
     (r = _),
     re++,
     (A = _),
     (o = Se()) !== n &&
     (i = (function () {
                   var t, r, A
                     ;(t = _),
                     (r = []),
                 32 === e.charCodeAt(_)
                   ? ((A = ' '), _++)
                     : ((A = n), 0 !== re && ce(d))
                   for (; A !== n; )
                     r.push(A),
                 32 === e.charCodeAt(_)
                   ? ((A = ' '), _++)
                     : ((A = n), 0 !== re && ce(d))
                 r !== n
                   ? ((Z = _),
                     (A = (A = r.length !== (Ne + 1) * ke) ? void 0 : n) !== n
                     ? (t = r = [r, A])
                       : ((_ = t), (t = n))
                     : ((_ = t), (t = n))
                   return t
    }):
      R;
    var n, r, A
      ;(t = _),
      (r = []),
    32 === e.charCodeAt(_)
      ? ((A = ' '), _++)
      : ((A = n), 0 !== re && ce(d))
    for (; A !== n; )
      r.push(A),
    32 === e.charCodeAt(_)
      ? ((A = ' '), _++)
      : ((A = n), 0 !== re && ce(d))
    r !== n
      ? ((Z = _),
        (A = (A = r.length !== (Ne + 1) * ke) ? void 0 : n) !== n
        ? (t = r = [r, A])
          : ((_ = t), (t = n))
        : ((_ = t), (t = n))
      return t
    )
} else (_ = t), (t = n)
else (_ = t), (t = n)
}}

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})() !== n

? (45 === e.charCodeAt(_)
   ? ((a = `\`, _)++
       : ((a = n), 0 === re && ce(s)),
        a !== n && (c = be()) !== n
     ? (A = o = [o, i, a, c])
        : (_ = A), (A = n))
    : ((_ = A), (A = n)),
re--,
A !== n ? (_ = r), (r = void 0)) : (r = n),
r !== n &&
(A = ve()) !== n &&
(o = fe()) !== n &&
(i = (function () {
    var e, t, r, A
    for (e = _, t = [], r = ue(); r !== n; )
        t.push(r), (r = ue())
    return (t !== n && ((Z = e), (A = t), (t = [].concat(...A))),
        (e = t)
    )
})()) !== n &&
(u = le()) !== n
? ((Z = t), (t = r = i))
  : (_ = t), (t = n)),
t === n &&
((t = _),
 (r = Se()) !== n &&
 (A = fe()) !== n &&
 (o = he()) !== n &&
 (i = le()) !== n
? ((Z = t), (t = r = o))
  : (_ = t), (t = n)),
t === n))
if (
  ((t = _),
   (r = (function () {
          var t
        ;(t = me()) === n &&
        (t = (function () {
            var t, r
            ;(t = _),
              'true' === e.substr(_, 4)
            ? ((r = 'true'), (_, += 4))
            : ((r = n), 0 === re && ce(S))
        r !== n && ((Z = t), (r = !0))
  ;(t = r) === n &&

function Ce() {
    var t, r, A
    for (re++,
        t = _,
        r = [],
        32 === e.charCodeAt(_)
            ? ((A = ' '), _++)
            : ((A = n), 0 === re && ce(d));
        A !== n;
    )
        r.push(A);
        32 === e.charCodeAt(_)
            ? ((A = ' '), _++)
            : ((A = n), 0 === re && ce(d))
    return (r !== n
        ? ((Z = _), (A = (A = r.length === Ne * ke) ? void 0 : n) !== n
            ? (t = r = [r, A])
            : (_ = t), (t = n))
        : (_ = t), (t = n),
        re--, t !== n && ((r = n), 0 === re && ce(p)),
        t)
}
function fe() {
    return (Z = _), Ne++, !0 ? void 0 : n
}

function Ie() {
    return (Z = _), Ne--, !0 ? void 0 : n
}

function Ee() {
    var e, t, r
    if ((e = we()) === n) {
        if (((e = _), (t = []), (r = ye()) !== n))
            for (; r !== n; ) t.push(r), (r = ye())
        else t = n
        t !== n && ((Z = e), (t = Ae())), (e = t)
    }
    return e
}

function Be() {
    var t, r, A, o, i, s
    if (re++,
        (t = _),
        f.test(e.charAt(_))
        ? ((r = e.charAt(_)), _++)
        : ((r = n), 0 === re && ce(I)),
    r !== n)
        for (
            A = [],
            o = _,
            (i = be()) === n && (i = null),
            i !== n
                ? (E.test(e.charAt(_))
                    ? ((s = e.charAt(_)), _++)
                    : ((s = n), 0 === re && ce(I)),
                s !== n ? (o = i = [i, s]) : ((_ = o), (o = n)))
                    : (_ = o), (o = n));
    o !== n;

    A.push(o),
    (o = _),
    (i = be()) === n && (i = null),
    i !== n
        ? (E.test(e.charAt(_))
            ? ((s = e.charAt(_)), _++)
            : ((s = n), 0 === re && ce(I)),
        s !== n ? (o = i = [i, s]) : ((_ = o), (o = n)))
            : (_ = o), (o = n))
A !== n ? ((Z = t), (t = r = y())) : ((_ = t), (t = n))
} else (_ = t), (t = n)
return re--, t === n && ((r = n), 0 === re && ce(C)), t
}

function ye() {
var t, r, A, o, i
if (t = _),
'--' === e.substr(_ , 2)
? ((r = '--'), (_ += 2))
: ((r = n), 0 === re && ce(m)),
r === n && (r = null),
r !== n)
)
if (w.test(e.charAt(_))
? ((A = e.charAt(_)), _++)
: ((A = n), 0 === re && ce(Q)),
A !== n)
)}
for (o = [],
D.test(e.charAt(_))
? ((i = e.charAt(_)), _++)
: ((i = n), 0 === re && ce(b));
i !== n;

) o.push(i),
D.test(e.charAt(_))
? ((i = e.charAt(_)), _++)
: ((i = n), 0 === re && ce(b))
o !== n ? ((Z = t), (t = r = y())) : ((_ = t), (t = n))
} else (_ = t), (t = n)
else (_ = t), (t = n)
return t
}

function me() {
var t, r
return (t = _),
'null' === e.substr(_, 4)
? ((r = 'null'), (_ += 4))
: ((r = n), 0 === re && ce(v)),
r !== n && ((Z = t), (r = null)),
(t = r)
)}
function we() {
  var t, r, A, o
  return {
    re++,
    (t = _),
    34 === e.charCodeAt(_)
      ? ((r = ""), _++)
      : ((t = n), 0 === re && ce(F)),
    r !== n
      ? (34 === e.charCodeAt(_)
          ? ((A = ""), _++)
          : ((A = n), 0 === re && ce(F)),
          A !== n ? ((Z = t), (t = r = "") : ((t = t), (t = n))
          : ((t = t), (t = n)),
        t === n &&
        ((t = _),
        34 === e.charCodeAt(_)
          ? ((r = ""), _++)
          : ((r = n), 0 === re && ce(F)),
        r !== n &&
        (A = (function () {
          var e, t, r
          if (((e = _), (t = []), (r = Qe()) !== n))
            for (; r !== n; ) t.push(r), (r = Qe())
          else t = n
          t !== n && ((Z = e), (t = t.join("")))
          return (e = t)
        }()) !== n
          ? (34 === e.charCodeAt(_)
              ? ((o = ""), _++)
              : ((o = n), 0 === re && ce(F)),
              o !== n ? ((Z = t), (t = r = A)) : ((t = t), (t = n))
            : ((t = t), (t = n)),
          re--,
          t === n && (r = n), 0 === re && ce(N)),
        t)
    )
  }
}

function Qe() {
  var t, r, A, o, i, s, a, c, g, l
  return {
    K.test(e.charCodeAt(_))
      ? ((t = e.charCodeAt(_), _++)
          : ((t = n), 0 === re && ce(M)),
        t === n &&
        ((t = _),
        "\"" === e.substr(_, 2)
          ? ((r = "\""), (_ += 2))
: ((r = n), 0 === re & ce(Y)),
r !== n &&
(A = De()) !== n &&
(o = De()) !== n &&
(i = De()) !== n &&
(s = De()) !== n
? ((Z = t),
  (a = A),
  (c = o),
  (g = i),
  (l = s),
  (t = r = String.fromCharCode(
    parseInt(`0x${a}${c}${g}${l}`),
  )))
: ((t = t), (t = n)));
}

function De() {
  var t
  return (G.test(e.charAt(_))
    ? ((t = e.charAt(_)), _++)
    : ((t = n), 0 === re & ce(H)),
  t)
}

function be() {
  var t, r
  if (re++,
    (t = []),
    q.test(e.charAt(_))
    ? ((r = e.charAt(_)), _++)
    : ((r = n), 0 === re & ce(z)),
    r !== n)
    for (; r !== n; )
    t.push(r),
    q.test(e.charAt(_))
    ? ((r = e.charAt(_)), _++)
    : ((r = n), 0 === re & ce(z))
  else t = n
  return re--, t === n & ((r = n), 0 === re & ce(J)), t
}

function ve() {
  var e, t, r, A, o, i
  if (((e = _), (t = Se()) !== n)) {
for (r = [],
    A = _,
    (o = be()) === n && (o = null),
    o !== n && (i = Se()) !== n
  ? (A = o = [o, i])
  : ((_ = A), (A = n));
A !== n;
}

r.push(A),
  (A = _),
  (o = be()) === n && (o = null),
  o !== n && (i = Se()) !== n
? (A = o = [o, i])
: ((_ = A), (A = n))

r !== n ? (e = t = [t, r]) : ((_ = e), (e = n))
}

return e
}

function Se() {
  var t
  return (n
    '\n' === e.substr(_, 2)
  ? ((t = '\n'), (_ += 2))
  : ((t = n), 0 === re && ce(W)),
t === n &&
    (10 === e.charCodeAt(_)
  ? ((t = '\n'), _++)
  : ((t = n), 0 === re && ce(X)),
t === n &&
    (13 === e.charCodeAt(_)
  ? ((t = '\r'), _++)
  : ((t = n), 0 === re && ce(V))));//
    t
  )}
}

const ke = 2
let Ne = 0
if ((A = i()) !== n && _ === e.length) return A

throw (n
    (A !== n && _ < e.length &&& ce({ type: 'end' })),
  ge(
    te,
    ee < e.length ? e.charAt(ee) : null,
    ee < e.length ? ae(ee, ee + 1) : ae(ee, ee),
  ))
)}
'use strict'
e.exports = require('path')
},
71191: (e) => {
    'use strict'
e.exports = require('querystring')
},
51058: (e) => {
    'use strict'
e.exports = require('readline')
},
92413: (e) => {
    'use strict'
e.exports = require('stream')
},
24304: (e) => {
    'use strict'
e.exports = require('string_decoder')
},
4016: (e) => {
    'use strict'
e.exports = require('tls')
},
33867: (e) => {
    'use strict'
e.exports = require('tty')
},
78835: (e) => {
    'use strict'
e.exports = require('url')
},
31669: (e) => {
    'use strict'
e.exports = require('util')
},
78761: (e) => {
    'use strict'
e.exports = require('zlib')
},
}
}
t = {}
function r(A) {
    if (t[A]) return t[A].exports
    var n = (t[A] = { id: A, loaded: !1, exports: {} })
    return e[A].call(n.exports, n, n.exports, r, (n.loaded = !0), n.exports
}
return (r.c = t),
(r.n = (e) => {
  var t = e && e.__esModule ? () => e.default : () => e
  return r.d(t, { a: t });
}),
(r.t = function (e, t) {
  if ((1 & t && (e = this(e)), 8 & t)) return e
  if (4 & t && 'object' == typeof e && e && e.__esModule) return e
  var A = Object.create(null)
  r.rt(A)
  var n = [
    if (2 & t && 'object' == typeof e && e)
      for (const t in e) n[t] = () => e[t]
    return (n.default = () => e), r.d(A, n), A
  ],
  (r.d = (e, t) => {
    for (var A in t)
      r.o(t, A) &
        'r.o(e, A) &
          Object.defineProperty(e, A, { enumerable: !0, get: t[A] })
    }),
  (r.hmd = (e) => {
    (e = Object.create(e)).children || (e.children = []),
    Object.defineProperty(e, 'exports', {
      enumerable: !0,
      set: () => {
        throw new Error('ES Modules may not assign module.exports or exports.*, Use ESM export syntax, instead: ' + e.id,
      },
    }),
  }),
  (r.o = (e, t) => Object.prototype.hasOwnProperty.call(e, t)),
  (r.r = (e) => [
    'undefined' != typeof Symbol &&
    Symbol.toStringTag &&
    Object.defineProperty(e, Symbol.toStringTag, { value: 'Module' }),
    Object.defineProperty(e, '__esModule', { value: !0 })
  ])
},
(r.nmd = (e) => ((e.paths = []), e.children || (e.children = []), e)),
(r(43418)
)
})()

Found in path(s):
* /opt/cola/permits/1160999769_1620425966.46/0/maticzav-nookies-v2-5-2-0-gf3b87f8-tar.gz/maticzav-nookies-f3b87f8/.yarn/releases/yarn-berry.cjs
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1.1981 jwalterweatherman 1.1.0
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The reason we have a separate public license for some libraries is that they blur the distinction we usually make between modifying or adding to a program and simply using it. Linking a program with a library, without changing the library, is in some sense simply using the library, and is analogous to running a utility program or application program. However, in a textual and legal sense, the linked executable is a combined work, a derivative of the original library, and the ordinary General Public License treats it as such.

Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

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libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but
we have achieved it as regards changes in the actual functions of the Library.) The hope is that this will lead to faster
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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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1.1997 libtiff 4.0.3-35.amzn2

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1.1998 util-linux 2.30.2-2.amzn2.0.4

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1.2011 selinux 2.7-2build2
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1.2012 grpc-gateway 1.14.1

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For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

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"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

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If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object
file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

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Version 2, June 1991

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* configure.ac, Makefile.am: The original versions were derived from the ones in the XML Catalog Manager project, version 2.2.

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* atf-c/ui.c: The format_paragraph and format_text functions were derived form the ones in the Monotone project, revision 3a0982da308228d796df35f98d787c5c4f2bb5b6.

  Author: Julio Merino <jmmv@NetBSD.org>

* atf-c++/detail/io.hpp, atf-c++/detail/io.cpp, atf-c++/detail/io_test.cpp: These files were derived from the file_handle, systembuf, pipe and pistream classes and tests found in the Boost.Process library.

  Author: Julio Merino <jmmv84@gmail.com>
* admin/check-style.sh, admin/check-style-common.awk, admin/check-style-cpp.awk, admin/check-style-shell.awk: These files, except the first one, were first implemented in the Buildtool project. They were later adapted to be part of Boost.Process and, during that process, the shell script was created.

Author: Julio Merino <jmmv84@gmail.com>

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xmlns:xsl="http://www.w3.org/1999/XSL/Transform"
xmlns:xi="http://www.w3.org/2001/XInclude"
xmlns:db="http://docbook.org/ns/docbook">

<xsl:template name="isc.copyright.format">
  <xsl:param name="text"/>
  <xsl:variable name="isc.copyright.leader" select="normalize-space(substring-before($text, '&lt;!--'))"/>
  <xsl:variable name="rest" select="substring-after($text, '&lt;!--')"/>
  <xsl:if test="translate($rest, '&#9;&#32;', '')">
    <xsl:call-template name="isc.copyright.format">
      <xsl:with-param name="text" select="$rest"/>
    </xsl:call-template>
  </xsl:if>
</xsl:template>

<xsl:variable name="isc.copyright.text">
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</xsl:variable>
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1.2036 openssl 1.1.1-1ubuntu2.1~18.04.9

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  jar/org/opensaml/security/credential/CredentialSupport.java
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1.2038 golang-lru 0.5.4

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<th></th>
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</tr>
<tr>
<td>Streaming</td>
<td><a href="https://www.adobe.com/devnet/adobe-media-server/articles/cross-domain-xml-for-streaming.html">Cross-domain policy file for HTTP streaming</a></td>
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Protocol Buffers for Go with Gadgets

Go support for Protocol Buffers - Google's data interchange format

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https://github.com/golang/protobuf

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1.2053 python-jsonpointer 1.9-2.amzn2

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Written by: Philip Hazel
Email local part: ph10
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A. HISTORY OF THE SOFTWARE

Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see http://www.cnri.reston.va.us) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations, which became Zope Corporation. In 2001, the Python Software Foundation (PSF, see https://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation was a sponsoring member of the PSF.

All Python releases are Open Source (see http://www.opensource.org for the Open Source Definition). Historically, most, but not all, Python releases have also been GPL-compatible; the table below summarizes the various releases.

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<th>Year</th>
<th>Owner</th>
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1.2081 d3-chord 1.0.6
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**1.2083 data-uri-to-buffer 3.0.1**

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```javascript
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// plain-text data is supported
var uri = 'data:Hello%2C%20World!';
var decoded = dataUriToBuffer(uri);
console.log(decoded.toString());
// 'Hello, World!'

// base64-encoded data is supported
uri = 'data:text/plain;base64,SGVsbG8sIFdvcmxkIQ%3D%3D';
decoded = dataUriToBuffer(uri);
```

---

**Installation**

```
$ npm install data-uri-to-buffer
```

---

**Example**

```javascript
var dataUriToBuffer = require('data-uri-to-buffer');

// plain-text data is supported
var uri = 'data:Hello%2C%20World!';
var decoded = dataUriToBuffer(uri);
console.log(decoded.toString());
// 'Hello, World!'

// base64-encoded data is supported
uri = 'data:text/plain;base64,SGVsbG8sIFdvcmxkIQ%3D%3D';
decoded = dataUriToBuffer(uri);
```
console.log(decoded.toString());

// 'Hello, World!'
```javascript

API
---

### dataUriToBuffer(String uri)  Buffer

The `type` property on the Buffer instance gets set to the main type portion of
the "mediatype" portion of the "data" URI, or defaults to `"text/plain"` if not
specified.

The `typeFull` property on the Buffer instance gets set to the entire
"mediatype" portion of the "data" URI (including all parameters), or defaults
to `"text/plain;charset=US-ASCII"` if not specified.

The `charset` property on the Buffer instance gets set to the Charset portion of
the "mediatype" portion of the "data" URI, or defaults to `"US-ASCII"` if the
entire type is not specified, or defaults to `""` otherwise.

*Note*: If the only the main type is specified but not the charset, e.g.
`"data:text/plain,abc"`, the charset is set to the empty string. The spec only
defaults to US-ASCII as charset if the entire type is not specified.

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* /opt/cola/permits/1161000118_1620425969.33/0/data-uri-to-buffer-3-0-1-2-tgz/package/README.md

1.2084 pcre 8.39-3
1.2084.1 Available under license:

PCRE LICENCE

---------

PCRE is a library of functions to support regular expressions whose syntax and semantics are as close as possible to those of the Perl 5 language.

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THE BASIC LIBRARY FUNCTIONS

-----------------------------

Written by: Philip Hazel
Email local part: ph10
Email domain: cam.ac.uk

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1.2085 talloc 2.1.10-2ubuntu1

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1.2090 dhcpcd 7.2.2

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1.2092 python 2.7.17-1~18.04ubuntu1.6

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Python was created in the early 1990s by Guido van Rossum at Stichting
Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands
as a successor of a language called ABC. Guido remains Python's
principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for
National Research Initiatives (CNRI, see http://www.cnri.reston.va.us)
in Reston, Virginia where he released several versions of the
software.

In May 2000, Guido and the Python core development team moved to
BeOpen.com to form the BeOpen PythonLabs team. In October of the same
year, the PythonLabs team moved to Digital Creations, which became
Zope Corporation. In 2001, the Python Software Foundation (PSF, see
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All Python releases are Open Source (see http://www.opensource.org for
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2. According to Richard Stallman, 1.6.1 is not GPL-compatible, because its license has a choice of law clause. According to CNRI, however, Stallman's lawyer has told CNRI's lawyer that 1.6.1 is "not incompatible" with the GPL.

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#if !defined(HAVE_POLL) && !defined(HAVE_POLL_H)
#ifndef _COMPAT_POLL_H_
#define _COMPAT_POLL_H_

typedef struct pollfd {
    int fd;
    short events;
    short revents;
} pollfd_t;

typedef unsigned intfds_t;

#define POLLIN 0x0001
#define POLLPOLL 0x0004

#endif
#endif

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#define POLLERR 0x0008
#define POLLHUP 0x0010
#define POLLNVAL 0x0020
#if 0
/* the following are currently not implemented */
#define POLLPRI 0x0002
#define POLLRDNORM 0x0040
#define POLLNORM POLLRNORM
#define POLLWRNORM POLLOUT
#define POLLRDBAND 0x0080
#define POLLWRBAND 0x0100
#endif
#define INFTIM (-1) /* not standard */

int poll(struct pollfd *, nfds_t, int);
#endif /* !_COMPAT_POLL_H_ */
#endif /* !HAVE_POLL_H */

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* @version 3.0 (December 2000)
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 */

#ifndef HAVE_SETRESGID
int setresgid(gid_t, gid_t, gid_t);
#endif
#ifndef HAVE_SETRESUID
int setresuid(uid_t, uid_t, uid_t);
#endif

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 */


#ifndef _BSD_WAITPID_H
#define _BSD_WAITPID_H

#ifndef HAVE_WAITPID
/* Clean out any potential issues */
#undef WIFEXITED
#undef WIFSTOPPED
#undef WIFSIGNALED

/* Define required functions to mimic a POSIX look and feel */
#define _W_INT(w) (*(int*)&(w)) /* convert union wait to int */
#define WIFEXITED(w) (!(_W_INT(w)) & 0377))
#define WIFSTOPPED(w)((_W_INT(w)) & 0100)
#define WIFSIGNALED(w)(WIFEXITED(w) && !WIFSTOPPED(w))
#define WEXITSTATUS(w) ((WIFEXITED(w) ? ((_W_INT(w) >> 8) & 0377) : -1)
#define WTERMSIG(w)(WIFSIGNALED(w) ? (_W_INT(w) & 0177) : -1)
#define WCOREFLAG 	0x80
#define WCOREDUMP(w) (_W_INT(w) & WCOREFLAG)

/* Prototype */
pid_t waitpid(int, int *, int);
#endif /* !HAVE_WAITPID */
#endif /* _BSD_WAITPID_H */

1.2102 mxj 1.8.4
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1.2104 debianutils 4.8.4

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 *
package licensemanager

import {
  "context"
awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
"github.com/aws/aws-sdk-go-v2/aws/signer/v4"
"github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
"github.com/aws/smithy-go/middleware"
smithyhttp "github.com/aws/smithy-go/transport/http"
}

// Deletes the specified license.
func (c *Client) DeleteLicense(ctx context.Context, params *DeleteLicenseInput, optFns ...func(*Options)) (*DeleteLicenseOutput, error) {
  if params == nil {
    params = &DeleteLicenseInput{ }
  }

  result, metadata, err := c.invokeOperation(ctx, "DeleteLicense", params, optFns, addOperationDeleteLicenseMiddlewares)
  if err != nil {
    return nil, err
  }

  out := result.(*DeleteLicenseOutput)
  out.ResultMetadata = metadata
  return out, nil
}

type DeleteLicenseInput struct {

  // Amazon Resource Name (ARN) of the license.
  // This member is required.
  LicenseArn *string
// Current version of the license.
//
// This member is required.
SourceVersion *string

} // type DeleteLicenseOutput struct

// Date on which the license is deleted.
DeletionDate *string

// License status.
Status types.LicenseDeletionStatus

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

func addOperationDeleteLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
    err = stack.Serialize.Add(&awsAwsjson11_serializeOpDeleteLicense{}, middleware.After)
    if err != nil {
        return err
    }
    err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpDeleteLicense{}, middleware.After)
    if err != nil {
        return err
    }
    if err = addSetLoggerMiddleware(stack, options); err != nil {
        return err
    }
    if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
        return err
    }
    if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
        return err
    }
    if err = addResolveEndpointMiddleware(stack, options); err != nil {
        return err
    }
    if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
        return err
    }
    if err = addRetryMiddlewares(stack, options); err != nil {
        return err
    }
    if err = addHTTPSignerV4Middleware(stack, options); err != nil {
        return err
    }
    return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
    return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
    return err
}
if err = addClientUserAgent(stack); err != nil {
    return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = addOpDeleteLicenseValidationMiddleware(stack); err != nil {
    return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opDeleteLicense(options.Region),
    middleware.Before); err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return nil
}

func newServiceMetadataMiddleware_opDeleteLicense(region string) *awsmiddleware.RegisterServiceMetadata {
    return &awsmiddleware.RegisterServiceMetadata{
        Region:      region,
        ServiceID:   ServiceID,
        SigningName: "license-manager",
        OperationName: "DeleteLicense",
    }
}

AWS SDK for Go
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// Code generated by smithy-go-codegen DO NOT EDIT.
package licensemanager

import (
    "context"
    awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
    "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
    "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
    "github.com/aws/smithy-go/middleware"
    smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Lists received licenses.
func (c *Client) ListReceivedLicenses(ctx context.Context, params *ListReceivedLicensesInput, optFns ...func(*Options)) (*ListReceivedLicensesOutput, error) {
    if params == nil {
        params = &ListReceivedLicensesInput{
    }

    result, metadata, err := c.invokeOperation(ctx, "ListReceivedLicenses", params, optFns, addOperationListReceivedLicensesMiddlewares)
    if err != nil {
        return nil, err
    }

    out := result.(*ListReceivedLicensesOutput)
    out.ResultMetadata = metadata
    return out, nil
}

type ListReceivedLicensesInput struct {

    // Filters to scope the results. The following filters are supported:
    //
    // *
    // ProductSKU
    //
    // * Status
    //
    // * KeyFingerprint
    //
    // * Issuer
    Filters []types.Filter

    // Amazon Resource Names (ARNs) of the licenses.
    LicenseArns []string

    // Maximum number of results to return in a single call.
    MaxResults *int32
}
// Token for the next set of results.
NextToken *string

// Received license details.
Licenses []types.GrantedLicense

// Token for the next set of results.
NextToken *string

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

func addOperationListReceivedLicensesMiddlewares(stack *middleware.Stack, options Options) (err error) {
    err = stack.Serialize.Add(&awsAwsjson11_serializeOpListReceivedLicenses{}, middleware.After)
    if err != nil {
        return err
    }

    err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpListReceivedLicenses{}, middleware.After)
    if err != nil {
        return err
    }

    if err = addSetLoggerMiddleware(stack, options); err != nil {
        return err
    }

    if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
        return err
    }

    if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
        return err
    }

    if err = addResolveEndpointMiddleware(stack, options); err != nil {
        return err
    }

    if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
        return err
    }

    if err = addRetryMiddlewares(stack, options); err != nil {
        return err
    }

    if err = addHTTPSignerV4Middleware(stack, options); err != nil {
        return err
    }

    if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
        return err
    }
}
return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
    return err
}
if err = addClientUserAgent(stack); err != nil {
    return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opListReceivedLicenses(options.Region), middleware.Before); err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
return nil
}

func newServiceMetadataMiddleware_opListReceivedLicenses(region string)
*awsmiddleware.RegisterServiceMetadata {
    return &awsmiddleware.RegisterServiceMetadata{
        Region:        region,
        ServiceID:     ServiceID,
        SigningName:   "license-manager",
        OperationName: "ListReceivedLicenses",
    }
}

// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (  
    "context"
    awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
    "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
    "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
// Creates a license.
func (c *Client) CreateLicense(ctx context.Context, params *CreateLicenseInput, optFns ...func(*Options)) (*CreateLicenseOutput, error) {
    if params == nil {
        params = &CreateLicenseInput{
    }

    result, metadata, err := c.invokeOperation(ctx, "CreateLicense", params, optFns,
    addOperationCreateLicenseMiddlewares)
    if err != nil {
        return nil, err
    }

    out := result.(*CreateLicenseOutput)
    out.ResultMetadata = metadata
    return out, nil
}

type CreateLicenseInput struct {

    // License beneficiary.
    //
    // This member is required.
    Beneficiary *string

    // Unique, case-sensitive identifier that you provide to ensure the idempotency of
    // the request.
    //
    // This member is required.
    ClientToken *string

    // Configuration for consumption of the license. Choose a provisional configuration
    // for workloads running with continuous connectivity. Choose a borrow
    // configuration for workloads with offline usage.
    //
    // This member is required.
    ConsumptionConfiguration *types.ConsumptionConfiguration

    // License entitlements.
    //
    // This member is required.
    Entitlements []types.Entitlement

    // Home Region for the license.

    //
// This member is required.
HomeRegion *string

// License issuer.
//
// This member is required.
Issuer *types.Issuer

// License name.
//
// This member is required.
LicenseName *string

// Product name.
//
// This member is required.
ProductName *string

// Product SKU.
//
// This member is required.
ProductSKU *string

// Date and time range during which the license is valid, in ISO8601-UTC format.
//
// This member is required.
Validity *types.DatetimeRange

// Information about the license.
LicenseMetadata []types.Metadata
}

type CreateLicenseOutput struct {

// Amazon Resource Name (ARN) of the license.
LicenseArn *string

// License status.
Status types.LicenseStatus

// License version.
Version *string

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata
}
func addOperationCreateLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
    if err != nil {
        return err
    }
    if err != nil {
        return err
    }
    if err = addSetLoggerMiddleware(stack, options); err != nil {
        return err
    }
    if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
        return err
    }
    if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
        return err
    }
    if err = addResolveEndpointMiddleware(stack, options); err != nil {
        return err
    }
    if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
        return err
    }
    if err = addRetryMiddlewares(stack, options); err != nil {
        return err
    }
    if err = addHTTPSignerV4Middleware(stack, options); err != nil {
        return err
    }
    if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
        return err
    }
    if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
        return err
    }
    if err = addClientUserAgent(stack); err != nil {
        return err
    }
    if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
        return err
    }
    if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
        return err
    }
    if err = addOpCreateLicenseValidationMiddleware(stack); err != nil {
        return err
    }
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCreateLicense(options.Region), middleware.Before); err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
return nil
}

func newServiceMetadataMiddleware_opCreateLicense(region string) *awsmiddleware.RegisterServiceMetadata {
    return &awsmiddleware.RegisterServiceMetadata{
        Region:        region,
        ServiceID:     ServiceID,
        SigningName:   "license-manager",
        OperationName: "CreateLicense",
    }
}

// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import {
    "context"
    awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
    "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
    "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
    "github.com/aws/smithy-go/middleware"
    smithyhttp "github.com/aws/smithy-go/transport/http"
}

// Checks out the specified license.
func (c *Client) CheckoutLicense(ctx context.Context, params *CheckoutLicenseInput, optFns ...func(*Options)) (*CheckoutLicenseOutput, error) {
    if params == nil {
        params = &CheckoutLicenseInput{
    }
    
    result, metadata, err := c.invokeOperation(ctx, "CheckoutLicense", params, optFns, addOperationCheckoutLicenseMiddlewares)
    if err != nil {
        return nil, err
    }

    return result, metadata
}
out := result.(*CheckoutLicenseOutput)
out.ResultMetadata = metadata
return out, nil

type CheckoutLicenseInput struct {

    // Checkout type.
    //
    // This member is required.
    CheckoutType types.CheckoutType

    // Unique, case-sensitive identifier that you provide to ensure the idempotency of
    // the request.
    //
    // This member is required.
    ClientToken *string

    // License entitlements.
    //
    // This member is required.
    Entitlements []types.EntitlementData

    // Key fingerprint identifying the license.
    //
    // This member is required.
    KeyFingerprint *string

    // Product SKU.
    //
    // This member is required.
    ProductSKU *string

    // License beneficiary.
    Beneficiary *string

    // Node ID.
    NodeId *string

}

type CheckoutLicenseOutput struct {

    // Checkout type.
    CheckoutType types.CheckoutType

    // Allowed license entitlements.
EntitlementsAllowed []types.EntitlementData

// Date and time at which the license checkout expires.
Expiration *string

// Date and time at which the license checkout is issued.
 IssuedAt *string

// License consumption token.
 LicenseConsumptionToken *string

// Node ID.
 NodeId *string

// Signed token.
 SignedToken *string

// Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

func addOperationCheckoutLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
    if err != nil {
        return err
    }
    if err != nil {
        return err
    }
    if err = addSetLoggerMiddleware(stack, options); err != nil {
        return err
    }
    if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
        return err
    }
    if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
        return err
    }
    if err = addResolveEndpointMiddleware(stack, options); err != nil {
        return err
    }
    if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
        return err
    }
    if err = addRetryMiddlewares(stack, options); err != nil {
        return err
    }
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
    return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
    return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
    return err
}
if err = addClientUserAgent(stack); err != nil {
    return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.CloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = addOpCheckoutLicenseValidationMiddleware(stack); err != nil {
    return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckoutLicense(options.Region),
    middleware.Before); err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
return nil
}

func newServiceMetadataMiddleware_opCheckoutLicense(region string) *awsmiddleware.RegisterServiceMetadata {
    return &awsmiddleware.RegisterServiceMetadata{
        Region:        region,
        ServiceID:     ServiceID,
        SigningName:   "license-manager",
        OperationName: "CheckoutLicense",
    }
}

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// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (  
  "context"
  awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
  "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
  "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
  "github.com/aws/smithy-go/middleware"
  smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks out the specified license for offline use.
func (c *Client) CheckoutBorrowLicense(ctx context.Context, params *CheckoutBorrowLicenseInput, optFns ...func(*Options)) (*CheckoutBorrowLicenseOutput, error) {  
if params == nil {  
params = &CheckoutBorrowLicenseInput{ }  
}

result, metadata, err := c.invokeOperation(ctx, "CheckoutBorrowLicense", params, optFns, 
addOperationCheckoutBorrowLicenseMiddlewares)
if err != nil {

}
return nil, err
}

out := result.(*CheckoutBorrowLicenseOutput)
out.ResultMetadata = metadata
return out, nil
}

type CheckoutBorrowLicenseInput struct {
  // Unique, case-sensitive identifier that you provide to ensure the idempotency of
  // the request.
  //
  // This member is required.
  ClientToken *string

  // Digital signature method. The possible value is JSON Web Signature (JWS)
  // algorithm PS384. For more information, see RFC 7518 Digital Signature with
  //
  // This member is required.
  DigitalSignatureMethod types.DigitalSignatureMethod

  // License entitlements. Partial checkouts are not supported.
  //
  // This member is required.
  Entitlements []types.EntitlementData

  // Amazon Resource Name (ARN) of the license. The license must use the borrow
  // consumption configuration.
  //
  // This member is required.
  LicenseArn *string

  // Information about constraints.
  CheckoutMetadata []types.Metadata

  // Node ID.
  NodeId *string
}

type CheckoutBorrowLicenseOutput struct {
  // Information about constraints.
  CheckoutMetadata []types.Metadata

  // Allowed license entitlements.
  EntitlementsAllowed []types.EntitlementData
// Date and time at which the license checkout expires.
Expiration *string

// Date and time at which the license checkout is issued.
IssuedAt *string

// Amazon Resource Name (ARN) of the license.
LicenseArn *string

// License consumption token.
LicenseConsumptionToken *string

// Node ID.
NodeId *string

// Signed token.
SignedToken *string

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

func addOperationCheckoutBorrowLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
    if err != nil {
        return err
    }
    if err != nil {
        return err
    }
    if err = addSetLoggerMiddleware(stack, options); err != nil {
        return err
    }
    if err = awsmiddleware.AddRequestIDMiddleware(stack); err != nil {
        return err
    }
    if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
        return err
    }
    if err = addResolveEndpointMiddleware(stack, options); err != nil {
        return err
    }
    if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
        return err
    }
    if err = addRetryMiddlewares(stack, options); err != nil {

return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
    return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
    return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
    return err
}
if err = addClientUserAgent(stack); err != nil {
    return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = addOpCheckoutBorrowLicenseValidationMiddleware(stack); err != nil {
    return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckoutBorrowLicense(options.Region), middleware.Before); err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
return nil
}

func newServiceMetadataMiddleware_opCheckoutBorrowLicense(region string) *awsmiddleware.RegisterServiceMetadata {
    return &awsmiddleware.RegisterServiceMetadata{
        Region:        region,
        ServiceID:     ServiceID,
        SigningName:   "license-manager",
        OperationName: "CheckoutBorrowLicense",
    }
}
package licensemanager

import {
    "context"
    awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
    "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
    "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
    "github.com/aws/smithy-go/middleware"
    smithyhttp "github.com/aws/smithy-go/transport/http"
}

// Lists the licenses for your account.
func (c *Client) ListLicenses(ctx context.Context, params *ListLicensesInput, optFns ...func(*Options)) (*ListLicensesOutput, error) {
    if params == nil {
        params = &ListLicensesInput{}
    }
    result, metadata, err := c.invokeOperation(ctx, "ListLicenses", params, optFns, addOperationListLicensesMiddlewares)
    if err != nil {
        return nil, err
    }
    out := result.(*ListLicensesOutput)
    out.ResultMetadata = metadata
    return out, nil
}

type ListLicensesInput struct {

    // Filters to scope the results. The following filters are supported:
    //
    // * Beneficiary
    //
    // * ProductSKU
    //
    // * KeyFingerprint
    //
    // * Status
    Filters []types.Filter

    // Amazon Resource Names (ARNs) of the licenses.
    LicenseArns []string

// Maximum number of results to return in a single call.
MaxResults *int32

// Token for the next set of results.
NextToken *string

}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
    return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
    return err
}
if err = addClientUserAgent(stack); err != nil {
    return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opListLicenses(options.Region), middleware.Before); err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
return nil

func newServiceMetadataMiddleware_opListLicenses(region string) *awsmiddleware.RegisterServiceMetadata {
    return &awsmiddleware.RegisterServiceMetadata{
        Region:        region,
        ServiceID:     ServiceID,
        SigningName:   "license-manager",
        OperationName: "ListLicenses",
    }
}

// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import {
    "context"
    awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
    "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
// Gets detailed information about the specified license.
func (c *Client) GetLicense(ctx context.Context, params *GetLicenseInput, optFns ...func(*Options)) (*GetLicenseOutput, error) {
    if params == nil {
        params = &GetLicenseInput{
    }

    result, metadata, err := c.invokeOperation(ctx, "GetLicense", params, optFns, addOperationGetLicenseMiddlewares)
    if err != nil {
        return nil, err
    }

    out := result.(*GetLicenseOutput)
    out.ResultMetadata = metadata
    return out, nil
}

type GetLicenseInput struct {

    // Amazon Resource Name (ARN) of the license.
    //
    // This member is required.
    LicenseArn *string

    // License version.
    Version *string
}

type GetLicenseOutput struct {

    // License details.
    License *types.License

    // Metadata pertaining to the operation's result.
    ResultMetadata middleware.Metadata
}

func addOperationGetLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
    if err != nil {
        return err
    }

if err != nil {
    return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
    return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
    return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
    return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
    return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
    return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
    return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
    return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
    return err
}
if err = addClientUserAgent(stack); err != nil {
    return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = addOpGetLicenseValidationMiddleware(stack); err != nil {
    return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opGetLicense(options.Region), middleware.Before); err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
return nil

func newServiceMetadataMiddleware_opGetLicense(region string) *awsmiddleware.RegisterServiceMetadata {
    return &awsmiddleware.RegisterServiceMetadata{
        Region:        region,
        ServiceID:     ServiceID,
        SigningName:   "license-manager",
        OperationName: "GetLicense",
    }
}

// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
    "context"
    awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
    "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
    "github.com/aws/smithy-go/middleware"
    smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks in the specified license. Check in a license when it is no longer in use.
func (c *Client) CheckInLicense(ctx context.Context, params *CheckInLicenseInput, optFns ...func(*Options)) (*CheckInLicenseOutput, error) {
    if params == nil {
        params = &CheckInLicenseInput{
    }

    result, metadata, err := c.invokeOperation(ctx, "CheckInLicense", params, optFns, 
addOperationCheckInLicenseMiddlewares)
    if err != nil {
        return nil, err
    }

    out := result.(*CheckInLicenseOutput)
    out.ResultMetadata = metadata
    return out, nil
}
type CheckInLicenseInput struct {

    // License consumption token.
    //
    // This member is required.
    LicenseConsumptionToken *string

    // License beneficiary.
    Beneficiary *string
}

type CheckInLicenseOutput struct {

    // Metadata pertaining to the operation's result.
    ResultMetadata middleware.Metadata
}

func addOperationCheckInLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
    err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckInLicense{}, middleware.After)
    if err != nil {
        return err
    }
    err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckInLicense{}, middleware.After)
    if err != nil {
        return err
    }
    if err = addSetLoggerMiddleware(stack, options); err != nil {
        return err
    }
    if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
        return err
    }
    if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
        return err
    }
    if err = addResolveEndpointMiddleware(stack, options); err != nil {
        return err
    }
    if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
        return err
    }
    if err = addRetryMiddlewares(stack, options); err != nil {
        return err
    }
    if err = addHTTPSignerV4Middleware(stack, options); err != nil {
        return err
    }
    if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
        return err
    }
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
    return err
}
if err = addClientUserAgent(stack); err != nil {
    return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
    return err
}
if err = addOpCheckInLicenseValidationMiddleware(stack); err != nil {
    return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckInLicense(options.Region), middleware.Before); err != nil {
    return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
    return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
    return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
    return err
}
return nil

func newServiceMetadataMiddleware_opCheckInLicense(region string) *awsmiddleware.RegisterServiceMetadata
{
    return &awsmiddleware.RegisterServiceMetadata{
        Region:        region,
        ServiceID:     ServiceID,
        SigningName:   "license-manager",
        OperationName: "CheckInLicense",
    }
}

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++++++++++++++++

Dean Elsner wrote the original gas for vax. [more details?]

Jay Fenlason maintained gas for a while, adding support for gdb-specific debug information and the 68k series machines, most of the preprocessing pass, and extensive changes in messages.c, input-file.c, write.c.

K. Richard Pixley maintained gas for a while, adding various enhancements and many bug fixes, including merging support for several processors, breaking gas up to handle multiple object file format backends (including heavy rewrite, testing, an integration of the coff and b.out backends), adding configuration including heavy testing and verification of cross assemblers and file splits and renaming, converted gas to strictly ansi C including full prototypes, added support for m680[34]0 & cpu32, considerable work on i960 including a coff port (including considerable amounts of reverse engineering), a sparc opcode file rewrite, decstation, rs6000, and hp300hpux host ports, updated "know" assertions and made them work, much other reorganization, cleanup, and lint.

Ken Raeburn wrote the high-level BFD interface code to replace most of the code in format-specific I/O modules.

The original Vax-VMS support was contributed by David L. Kashton.
Eric Youngdale and Pat Rankin have done much work with it since.

The Intel 80386 machine description was written by Eliot Dresselhaus.

Minh Tran-Le at IntelliiCorp contributed some AIX 386 support.

The Motorola 88k machine description was contributed by Devon Bowen of Buffalo University and Torbjorn Granlund of the Swedish Institute of Computer Science.

Keith Knowles at the Open Software Foundation wrote the original MIPS back end (tc-mips.c, tc-mips.h), and contributed Rose format support that hasn't been merged in yet. Ralph Campbell worked with the MIPS code to support a.out format.

Support for the Zilog Z8k and Hitachi H8/300, H8/500 and SH processors (tc-z8k, tc-h8300, tc-h8500, tc-sh), and IEEE 695 object file format (obj-ieee), was written by Steve Chamberlain of Cygnus Solutions. Steve also modified the COFF back end (obj-coffbfd) to use BFD for some low-level operations, for use with the Hitachi, 29k and Zilog targets.

John Gilmore built the AMD 29000 support, added .include support, and simplified the configuration of which versions accept which pseudo-ops. He updated the 68k machine description so that Motorola's opcodes always produced fixed-size instructions (e.g. jsr), while synthetic instructions remained shrinkable (jbsr). John fixed many bugs, including true tested cross-compilation support, and one bug in relaxation that took a week and required the proverbial one-bit fix.

Ian Lance Taylor of Cygnus Solutions merged the Motorola and MIT syntaxes for the 68k, completed support for some COFF targets (68k, i386 SVR3, and SCO Unix), wrote the ECOFF support based on Michael Meissner's mips-tfile program, wrote the PowerPC and RS/6000 support, and made a few other minor patches. He handled the binutils releases for versions 2.7 through 2.9.

David Edelsohn contributed fixes for the PowerPC and AIX support.

Steve Chamberlain made gas able to generate listings.

Support for the HP9000/300 was contributed by Glenn Engel of HP.

Support for ELF format files has been worked on by Mark Eichin of Cygnus Solutions (original, incomplete implementation), Pete Hoogenboom at the University of Utah (HPPA mainly), Michael Meissner of the Open Software Foundation (i386 mainly), and Ken Raeburn of Cygnus Solutions (sparc, initial 64-bit support).
Several engineers at Cygnus Solutions have also provided many small bug fixes and configuration enhancements.

The initial Alpha support was contributed by Carnegie-Mellon University. Additional work was done by Ken Raeburn of Cygnus Solutions. Richard Henderson then rewrote much of the Alpha support.

Ian Dall updated the support code for the National Semiconductor 32000 series, and added support for Mach 3 and NetBSD running on the PC532.

Klaus Kaempf ported the assembler and the binutils to openVMS/Alpha.

Steve Haworth contributed the support for the Texas Instruction c30 (tms320c30).

H.J. Lu has contributed many patches and much testing.

Alan Modra reworked much of the i386 backend, improving the error checking, updating the code, and improving the 16 bit support, using patches from the work of Martynas Kunigelis and H.J. Lu.

Many others have contributed large or small bugfixes and enhancements. If you've contributed significant work and are not mentioned on this list, and want to be, let us know. Some of the history has been lost; we aren't intentionally leaving anyone out.

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=================
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HTTP or HTTPS proxy server, and can be used with the built-in `https` module.

Specifically, this `Agent` implementation connects to an intermediary "proxy" server and issues the [CONNECT HTTP method]([CONNECT], which tells the proxy to open a direct TCP connection to the destination server.

Since this agent implements the CONNECT HTTP method, it also works with other protocols that use this method when connecting over proxies (i.e. WebSockets). See the "Examples" section below for more.

Installation
------------

Install with `npm`:

```bash
$ npm install https-proxy-agent
```

Examples
--------

#### `https` module example

```js
var url = require('url');
var https = require('https');
var HttpsProxyAgent = require('https-proxy-agent');

// HTTP/HTTPS proxy to connect to
var proxy = process.env.http_proxy || 'http://168.63.76.32:3128';
console.log('using proxy server %j', proxy);

// HTTPS endpoint for the proxy to connect to
console.log('attempting to GET %j', endpoint);
var options = url.parse(endpoint);

// create an instance of the `HttpsProxyAgent` class with the proxy server information
var agent = new HttpsProxyAgent(proxy);
options.agent = agent;

https.get(options, function (res) {
    console.log("response" event!, res.headers);
    res.pipe(process.stdout);
});```
```js
var url = require('url');
var WebSocket = require('ws');
var HttpsProxyAgent = require('https-proxy-agent');

// HTTP/HTTPS proxy to connect to
var proxy = process.env.http_proxy || 'http://168.63.76.32:3128';
console.log('using proxy server %j', proxy);

// WebSocket endpoint for the proxy to connect to
var endpoint = process.argv[2] || 'ws://echo.websocket.org';
var parsed = url.parse(endpoint);
console.log('attempting to connect to WebSocket %j', endpoint);

// create an instance of the `HttpsProxyAgent` class with the proxy server information
var options = url.parse(proxy);

var agent = new HttpsProxyAgent(options);

// finally, initiate the WebSocket connection
var socket = new WebSocket(endpoint, { agent: agent });

socket.on('open', function () {
    console.log("open" event!);
    socket.send('hello world');
});

socket.on('message', function (data, flags) {
    console.log("message" event! %j %j', data, flags);
    socket.close();
});
```

### new HttpsProxyAgent(Object options)

The `HttpsProxyAgent` class implements an `http.Agent` subclass that connects to the specified "HTTP(s) proxy server" in order to proxy HTTPS and/or WebSocket requests. This is achieved by using the [HTTP `CONNECT` method][CONNECT].

The `options` argument may either be a string URI of the proxy server to use, or an "options" object with more specific properties:
* `host` - String - Proxy host to connect to (may use `hostname` as well). Required.
* `port` - Number - Proxy port to connect to. Required.
* `protocol` - String - If `https`, then use TLS to connect to the proxy.
* `headers` - Object - Additional HTTP headers to be sent on the HTTP CONNECT method.
* Any other options given are passed to the `net.connect()`/`tls.connect()` functions.

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[CONNECT]: http://en.wikipedia.org/wiki/HTTP_tunnel#HTTP_CONNECT_Tunneling

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1063935529_1593103864.72/0/https-proxy-agent-5-0-0-1-tgz/package/README.md

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The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public Licenses are intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users.

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Our method of protecting your rights has two steps: (1) copyright the library, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the library.

Also, for each distributor's protection, we want to make certain that everyone understands that there is no warranty for this free library. If the library is modified by someone else and passed on, we want its recipients to know that what they have is not the original version, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that companies distributing free software will individually obtain patent licenses, thus in effect transforming the program into proprietary software. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.
Most GNU software, including some libraries, is covered by the ordinary GNU General Public License, which was designed for utility programs. This license, the GNU Library General Public License, applies to certain designated libraries. This license is quite different from the ordinary one; be sure to read it in full, and don't assume that anything in it is the same as in the ordinary license.

The reason we have a separate public license for some libraries is that they blur the distinction we usually make between modifying or adding to a program and simply using it. Linking a program with a library, without changing the library, is in some sense simply using the library, and is analogous to running a utility program or application program. However, in a textual and legal sense, the linked executable is a combined work, a derivative of the original library, and the ordinary General Public License treats it as such.

Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

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The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, while the latter only works together with the library.

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A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification".)

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

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b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.
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d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may
distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also compile or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

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b) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

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#
# install - install a program, script, or datafile
# This comes from X11R5 (mit/util/scripts/install.sh).
#
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1.2132 jnr-enxio 0.25
1.2132.1 Available under license:

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<project xmlns="http://maven.apache.org/POM/4.0.0" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xsi:schemaLocation="http://maven.apache.org/POM/4.0.0 http://maven.apache.org/maven-v4_0_0.xsd">
  <modelVersion>4.0.0</modelVersion>
  <parent>
    <groupId>org.sonatype.oss</groupId>
    <artifactId>oss-parent</artifactId>
    <version>7</version>
  </parent>

  <groupId>com.github.jnr</groupId>
  <artifactId>jnr-enxio</artifactId>
  <packaging>jar</packaging>
  <version>0.25</version>
  <name>jnr-enxio</name>
  <description>Native I/O access for java</description>
  <url>http://github.com/jnr/jnr-enxio</url>

  <licenses>
    <license>
      <name>The Apache Software License, Version 2.0</name>
      <url>http://www.apache.org/licenses/LICENSE-2.0.txt</url>
      <distribution>repo</distribution>
    </license>
  </licenses>

  <scm>
    <connection>scm:git@github.com:jnr/jnr-enxio.git</connection>
    <developerConnection>scm:git@github.com:jnr/jnr-enxio.git</developerConnection>
    <url>git@github.com:jnr/jnr-enxio.git</url>
  </scm>
</project>
<developers>
    <developer>
        <id>wmeissner</id>
        <name>Wayne Meissner</name>
        <email>wmeissner@gmail.com</email>
    </developer>
</developers>

<properties>
    <project.build.sourceEncoding>UTF-8</project.build.sourceEncoding>
    <maven.compiler.source>1.6</maven.compiler.source>
    <maven.compiler.target>1.6</maven.compiler.target>
</properties>

<dependencies>
    <dependency>
        <groupId>junit</groupId>
        <artifactId>junit</artifactId>
        <version>4.11</version>
        <scope>test</scope>
    </dependency>
    <dependency>
        <groupId>com.github.jnr</groupId>
        <artifactId>jnr-constants</artifactId>
        <version>0.9.15</version>
    </dependency>
    <dependency>
        <groupId>com.github.jnr</groupId>
        <artifactId>jnr-ffi</artifactId>
        <version>2.1.12</version>
    </dependency>
</dependencies>

<build>
    <plugins>
        <plugin>
            <groupId>org.apache.felix</groupId>
            <artifactId>maven-bundle-plugin</artifactId>
            <version>2.3.7</version>
            <configuration>
                <instructions>
                    <nouses>true</nouses>
                    <Import-Package>*.jnr.ffi.mapper,jnr.ffi.provider.converters,com.kenai.jffi</Import-Package>
                    <Automatic-Module-Name>jnr.enxio</Automatic-Module-Name>
                </instructions>
            </configuration>
        </plugin>
    </plugins>
</build>
<execution>
    <id>bundle-manifest</id>
    <phase>process-classes</phase>
    <goals>
        <goal>manifest</goal>
    </goals>
</execution>

<executions>
</executions>

<plugin>
    <groupId>org.apache.maven.plugins</groupId>
    <artifactId>maven-jar-plugin</artifactId>
    <version>2.3.1</version>
    <configuration>
        <archive>
            <manifestFile>${project.build.outputDirectory}/META-INF/MANIFEST.MF</manifestFile>
        </archive>
    </configuration>
</plugin>

<plugin>
    <groupId>org.apache.maven.plugins</groupId>
    <artifactId>maven-source-plugin</artifactId>
    <version>2.2.1</version>
    <executions>
        <execution>
            <id>attach-sources</id>
            <goals>
                <goal>jar-no-fork</goal>
            </goals>
        </execution>
    </executions>
</plugin>

<plugin>
    <groupId>org.apache.maven.plugins</groupId>
    <artifactId>maven-javadoc-plugin</artifactId>
    <executions>
        <execution>
            <id>attach-javadocs</id>
            <goals>
                <goal>jar</goal>
            </goals>
        </execution>
    </executions>
</plugin>

<profiles>
<?xml version="1.0" encoding="UTF-8"?>
<project xmlns="http://maven.apache.org/maven-core/1.0.0" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xsi:schemaLocation="http://maven.apache.org/maven-core/1.0.0 http://maven.apache.org/xsd/maven-1.0.0.xsd">
  <profiles>
    <profile>
      <id>old-jdk</id>
      <activation>
        <jdk>(1.6]</jdk>
      </activation>
    </profile>
  </profiles>

  <dependencies>
    <dependency>
      <groupId>com.github.jnr</groupId>
      <artifactId>jnr-enxio-protocolfamily</artifactId>
      <version>1.0</version>
      <scope>provided</scope>
      <optional>true</optional>
    </dependency>
  </dependencies>
</project>

Found in path(s):
* /opt/cola/permits/1152578569_1618257411.68/0/jnr-enxio-0-25-jar/META-INF/maven/com.github.jnr/jnr-enxio/pom.xml

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Manifest-Version: 1.0
Archiver-Version: Plexus Archiver
Created-By: Apache Maven Bundle Plugin
Built-By: headius
Build-Jdk: 1.8.0_222
Automatic-Module-Name: jnr.enxio
Bnd-LastModified: 1581872953607
Bundle-Description: Native I/O access for java
Bundle-License: http://www.apache.org/licenses/LICENSE-2.0.txt
Bundle-ManifestVersion: 2
Bundle-Name: jnr-enxio
Bundle-SymbolicName: com.github.jnr.enxio
Bundle-Version: 0.25.0
Export-Package: jnr.enxio.channels;version="0.25.0"
Import-Package: com.kenai.jffi,jnr.constants.platform;version="[0.9,1)
" jnr.ffi;version="[2.1,3)" jnr.ffi.annotations;version="[2.1,3)" jnr
 .ffi.mapper;version="[2.1,3)" jnr.ffi.provider;version="[2.1,3)" jnr.
 ffi.provider.converters;version="[2.1,3)" jnr.ffi.provider.jffi;versi
on="[2.1,3)" jnr.ffi.types;version="[2.1,3)"
Tool: Bnd-1.50.0

Found in path(s):
* /opt/cola/permits/1152578569_1618257411.68/0/jnr-enxio-0-25-jar/META-INF/MANIFEST.MF
1.2133 mariadb 10.1.44-0+deb9u1
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5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the
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c) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

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That's all there is to it!

== MariaDB ==

The Debian package of MySQL was first debianzed on 1997-04-12 by Christian Schwarz <schwarz@debian.org> and ist maintained since 1999-04-20 by Christian Hammers <ch@debian.org>.

The MariaDB packages were initially made by http://ourdelta.org/, and are now managed by the MariaDB development team, maria-developers@lists.launchpad.net

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The manual had to be removed as it is not free in the sense of the
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enclave {

    trusted {

    };

    untrusted {

        /* define OCALLs here. */

    };

};

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*/

/* OPENBSD ORIGINAL: sys/sys/poll.h */

#if !defined(HAVE_POLL) && !defined(HAVE_POLL_H)
#define_COMPAT_POLL_H_
#define_COMPAT_POLL_H_

typedef struct pollfd {
    int fd;
    short events;
    short revents;
} pollfd_t;

typedef unsigned int nfds_t;

#define POLLIN 0x0001
#define POLLHUP 0x0010
#define POLLNVAL 0x0020
#if 0
/* the following are currently not implemented */
#define POLLPRI 0x0002
#define POLLRDND 0x0040
#define POLLNORM 0x0080
#define POLLWRNORM 0x0100
#endif

#define INFTIM (-1) /* not standard */

int poll(struct pollfd *, nfds_t, int);
#endif /* !_COMPAT_POLL_H_ */
#endif /* !HAVE_POLL_H */

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* @author Antoon Bosselaers <antoon.bosselaers@esat.kuleuven.ac.be>
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 *
 */

#ifndef _BSD_WAITPID_H

#ifndef _BSD_WAITPID_H

Open Source Used In Cisco Cloud Mailbox Defense -CMD (Project Raptor) April 2021 22584
```c
#define _BSD_WAITPID_H

#ifndef HAVE_WAITPID
/* Clean out any potential issues */
#undef WIFEXITED
#undef WIFSTOPPED
#undef WIFSIGNALED

/* Define required functions to mimic a POSIX look and feel */
#define _W_INT(w)(*(int*)&(w)) /* convert union wait to int */
#define WIFEXITED(w)!((_W_INT(w)) & 0377))
#define WIFSTOPPED(w)((_W_INT(w)) & 0100)
#define WIFSIGNALED(w)!WIFEXITED(w) && !WIFSTOPPED(w)
#define WEXITSTATUS(w)(int)(WIFEXITED(w) ? ((_W_INT(w) >> 8) & 0377) : -1)
#define WTERMSIG(w)(int)(WIFSIGNALED(w) ? (_W_INT(w) & 0177) : -1)
#define WCOREFLAG0x80
#define WCOREDUMP(w)((_W_INT(w)) & WCOREFLAG)

/* Prototype */
pid_t waitpid(int, int *, int);
#endif /* !HAVE_WAITPID */
#endif /* _BSD_WAITPID_H */

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 */

#ifndef HAVE_SETRESGID
int setresgid(gid_t, gid_t, gid_t);
#endif
#ifndef HAVE_SETRESUID
int setresuid(uid_t, uid_t, uid_t);
#endif
```
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1.2145 adduser 3.115

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set yrange [0:]
set terminal pngcairo font 'Sans, 8' lw 1 size 1400,1024
set xtics rotate by -45
set style histogram errorbars gap 2 lw 1
set style fill solid border -1
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Julian Seward, jseward@bzip.org
bzip2/libbzip2 version 1.0.6 of 6 September 2010

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DRuntime: Runtime Library for the D Programming Language
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GCC RUNTIME LIBRARY EXCEPTION

Version 3.1, 31 March 2009

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jloup@gzip.org          madler@alumni.caltech.edu

The following list of people, sorted by last name, have contributed code or patches to this implementation of sudo since I began maintaining it in 1993. This list is known to be incomplete--if you believe you should be listed, please send a note to sudo@sudo.ws.

Ackeret, Matt
Adler, Mark
Allbery, Russ
Anderson, Jamie
Andrew, Nick
Andric, Dimitry
Barron, Danny
Bates, Tom
Behan, Zdenk
Bellis, Ray
Benali, Elias
Beverly, Jamie
Boardman, Spider
Bos, Sander
Bostley, P.J.
Bowes, Keith
Boyce, Keith Garry
Brantley, Michael
Braun, Rob
Bezina, Pavel
Brooks, Piete
The following people have worked to translate sudo into other languages as part of the Translation Project, see https://translationproject.org for more details.

Albuquerque, Pedro
Blittermann, Mario
Bogusz, Jakub
Buo-ren, Lin
Casagrande, Milo
Castro, Felipe
Cho, Seong-ho
Chornoivan, Yuri
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Marchal, Frédéric
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The page contains a list of words, possibly terms or abbreviations, that are not clearly related to the context provided. The list includes:

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See code changes and dependencies in the online configuration of the Cisco Cloud Mailbox Defense Service project in April 2021.
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Euxine Sea
Ev
Eva
Eva Gabor
Eva Gschopf
Eva Pfaff
Evacuation Day
Evadale
Evadne
Evadnee
Evaleen
Evalyn
Evan
Evan Mecham
Evander
Evang
Evangelia
Evangelical
Evangelical Congregationalist
Evangelicalism
Evangelin
Evangelina
Evangeline
Evangelist
Evangelists
Evangels
Evanghelos Averoff
Evania
Evaniidae
Evanne
Evanna
Evans
Evansdale
Evansport
Evanson
Evansville
Evant
Evante
Evanche
Evannah
Evarglice
Evaristus
Evars
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Evarts
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Eve
Eve's pudding
Evea
Evehood
Evel Knievel
Eveleen
Eveless
Eveleth
Evelin
Evelina
Eveline
Evelinn
Evelinn
Evelyn
Evelynne
Everarus
Even
Even-christian
Evendale
Evening Prayer
Evening With Monsieur Teste, An
Eveningshade
Evensville
Eventognathi
Eventus
Evenus
Everara
Everard
Evreux
Evros
Evslin
Evtushenko
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Evvy
Evy
Evyleen
Evyn
Ewa
Ewald
Ewall
Ewan
Ewan Clague
Eward
Ewart
Ewe
Ewell
Ewen
Ewens
Ewer
Ewig-weibliche
Ewing
Ewold
Ex
Exarchic
Exarchist
Exaudi
Exc
Excalibur
Excedrin
Excellence
Excellency
Excello
Excelsior
Excelsior Springs
Excelsior diamond
Exchangite
Exchequer
Exchequer chamber
Excipulaceae
Exclusion bill
Exclusive Brethren
Excoecaria
Executive Council
Executive Mansion
F natural
F region
F star
F's
F-display
F-flat
F-head cylinder
F-hole guitar
F-scope
F-shaped
F-sharp
F-sharp major
F-sharp minor
F-state
F-stop system
F-type star
FA
FA Cup
FAA
FAAAS
FAB
FACD
FACOM
FACS
FAD
FAE
FAG
FAI
FAM
FAO
FAQ
FAQL
FAR
FARNET
FAS
FASST
FAST
FAT
FAX
FAdm
FB
FBA
FBI
FBI agent
FBO
FBV
FC
FC radar
FGA
FGB
FGC
FGD
FGREP
FGS
FGSA
FHA
FHLBA
FHLMC
FHMA
FHST
FI
FIB
FICA
FIDE
FIDO
FIFA
FIFO
FILO
FIMS
FIN
FINE
FIO
FIOC
FIP
FIPS
FIR
FIRMR
FIT
FITS
FL
FLACC
FLB
FLN
FLOP
FLOPS
FLRA
FLS
FLT
FM
FM antenna
FM band
FM broadcasting
FM cyclotron
FM detector
FM receiver
FM signal
| Term  | Term  | Term  | Term  | Term  | Term  | Term  | Term  | Term  | Term  | Term  | Term  | Term  | Term  | Term  | Term  | Term  | Term  | Term  | Term  | Term  | Term  | Term  | Term  | Term  | Term  | Term  | Term  | Term  | Term  | Term  | Term  | Term  | Term  | Term  | Term  | Term  | Term  | Term  | Term  | Term  | Term  | Term  |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| FM station | FM transmitter | FM tuner | FMAC | FMB | FMC | FMCS | FMEA | FMN | FMR | FMS | FMk | FNC | FNMA | FNPA | FO | FOAC | FOB | FOC | FOE | FOIA | FOIMS | FOIRL | FON | FOOBAR | FOR | FORCS | FORD | FORM | FORTRAN | FOS | FOSE | FOT | FOV | FP | FPA | FPC | FPDU | FPE | FPHA | FPLA | FPM | FPO | FPP | FPS | FPU | FQDN | FR |
FUD
FUS
FUSE
FV
FW
FWA
FWD
FWHM
FWIW
FX
FY
FYA
FYI
FYS
FZS
Faba
Fabaceae
Fabe
Fabens
Faber
Faberg
Faberge
Fabi
Fabian
Fabian Society
Fabian policy
Fabian socialism
Fabian socialist
Fabianism
Fabianist
Fabiano
Fabien
Fabio
Fabiola
Fabiolas
Fabius
Fabius Maximus
Fablan
Fables
Fabozzi
Fabraea
Fabre
Fabri
Fabria
Fabriane
Fabrianna
Fabrianne
Fabriano
Fagin
Fagopyrum
Fagus
Fah
Fahey
Fahland
Fahnestock clip
Fahr
Fahrenheit
Fahrenheit scale
Fahrenheit thermometer
Fahy
Fai
Faial
Faina
Fair
Fair Deal
Fair Haven
Fair Isle
Fair Lawn
Fair Oaks
Fair Plain
Fair deal
Fair dealer
Fairbank
Fairbanks
Fairborn
Fairburn
Fairbury
Fairchance
Fairchild
Fairdale
Faires
Fairfax
Fairfield
Fairhope
Fairland
Fairlawn
Fairlee
Fairleigh
Fairley
Fairlie
Fairman
Fairmont
Fairmount
Fairoaks
Fairplay
Fairport
Faliscan
Falisci
Falito
Falk
Falkenhayn
Falkirk
Falkland
Falkland Islands
Falkland Islands Dependencies
Falkner
Falkville
Fall
Fall Line
Fall River
Fall River Legend
Fall of the House of Usher, The
Fall pippin
Fall, The
Falla
Fallbrook
Fallon
Fallopian
Fallopian aqueduct
Fallopian tube
Falls
Fallsburg
Fallston
Falmouth
False Bay
False Decretals
Falstaff
Falstaffian
Falster
Faltboat
Faludi
Falun
Falunian
Faluns
Falzetta
Fama
Famagusta
Famechon
Fameuse
Famgio
Familist
Family
Family Compact
Family Division
Fan
Fanagalo
Fanchan
Fancher
Fanchet
Fanchette
Fanchie
Fanchon
Fancia
Fancie
Fanconi syndrome
Fanconi's syndrome
Fancy
Fancy Free
Fanechka
Fanestil
Faneuil
Fanueil Hall
Fanfani
Fanfare
Fang
Fang I
Fang Lizhi
Fang Yi
Fangio
Fania
Fannettsburg
Fanni
Fannia
Fannie
Fannie Mae
Fannin
Fanning
Fanny
Fano
Fanshawe
Fantasia
Fantasiestck
Fantasy
Fante
Fanti
Fantin-Latour
Fanum Fortunae
Fanwe
Fanwood
Fany
Fanya
Fapesmo
Far
Far East
Far East Air Force
Far Eastern
Far Eastern Region
Far North
Far West
Far Western
Far east
Far eastern
Far from the Madding Crowd
Fara
Faraday
Faraday dark space
Faraday effect
Faraday rotation
Farah
Farallone
Farallones
Farand
Farant
Farber
Fareham
Farewell
Farewell to Arms, A
Farey sequence
Farfugium
Fargo
Farhan Djenoli
Farhi
Fari
Faria
Faribault
Farica
Farida
Farika
Farinelli
Faris Bey el Khouri
Farish
Farisita
Fariss
Farkas
Farl
Farland
Farlay
Farlee
Farleigh
Farler
Father Hugo's rose
Father Time
Father of Lies
Father's Day
Father, Son, and Holy Ghost
Father, The
Fatherhood
Fathers and Children
Fathers and Sons
Fathometer
Fatiha
Fatima
Fatimah
Fatimid
Fatimite
Fatma
Fatshan
Fattal
Faubert
Faubion
Faubush
Faucett
Fauch
Faucher
Faucille
Faulkland
Faulkner
Faulkton
Fauman
Faun
Fauna
Faunia
Faunie
Faunsdale
Faunus
Faur
Faure
Faus
Faust
Fausta
Faustena
Faustian
Faustianism
Faustina
Faustine
Fausto
Faustulus
Faustus
Federal Aviation Agency
Federal Bureau of Investigation
Federal Capital Territory
Federal Constitution
Federal Court of Claims
Federal District
Federal Energy Administration
Federal Home Loan Bank Board
Federal Land Bank
Federal Maritime Commission
Federal National Assembly
Federal Parliament
Federal Power Commission
Federal Register
Federal Republic of Cameroon
Federal Republic of Germany
Federal Reserve Bank
Federal Reserve Board
Federal Reserve System
Federal Reserve bank
Federal Reserve district
Federal Reserve note
Federal Trade Commission
Federal party
Federalism
Federalist Party
Federalist, The
Federnalsburg
Federated Malay States
Federation of the West Indies
Federica
Federico
Federico Chavez
Fedia
Fedin
Fedirko
Fedor
Fedora
Fee
Feeley
Feeney
Feer
Feesburg
Fegatella
Fehmic
Feighan
Feigin
Feigl
Fennie
Fennimore
Fennoman
Fennville
Fenny
Fenrir
Fenris-wolf
Fens
Fensalir
Fenton
Fentress
Fenwick
Fenzelia
Feodor
Feodor Fedorenko
Feodora
Feodore
Feola
Feosol
Ferae
Ferahan
Feramorz
Ferber
Ferd
Ferde
Ferdiad
Ferdie
Ferdinana
Ferdinand
Ferdinand I
Ferdinand II
Ferdinand III
Ferdinand V
Ferdinanda
Ferdinande
Ferdus
Ferdy
Ferenc
Fergana
Fergus
Ferguson
Ferhat Abbas
Feriga
Feringhee
Feringi
Ferino
Ferio
Ferison
Feucht
Feuchtwanger
Feuerbach
Feuillant
Feuillants
Feuille de Dreux
Feuillee
Feune
Feurabush
Fevre
Fevrier
Fevzi Cakmak
Fevzi Lutfi Karaosmaglu
Fey
Feydeau
Feynman
Fez
Fezzan
Fezziiwig
Fi
Fia
Fiann
Fianna
Fianna Fail
Fianna fail
Fiatt
Fiber
Fiberfrax
Fberglas
Fibiger
Fibonacci
Fibonacci number
Fibonacci numbers
Fibonacci sequence
Fibrospongiae
Ficaria
Fichte
Fichtean
Fichteanism
Ficino
Fick principle
Ficoidaceae
Ficoideae
Ficula
Ficus
Fid Def
Fidac
Fiddler's Green
Fifth Republic
Fifth of May
Figge
Fighting French
Figitidae
Figl
Figone
Figueres
Figueroa
Fiji
Fiji Islands
Fiji arrowroot
Fiji chestnut
Fijian
Filago
Filaria
Filariididae
Filbert
Filbert Bayi
Filberte
Filberto
Filemon
Filer
Files
Filia
Filiano
Filibranchia
Filicales
Filices
Filicineae
Filicites
Filicornia
Filide
Filigera
Filion
Filip
Filipe
Filipendula
Filipina
Filipiniana
Filipinization
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Filipino
Filipino ration
Filipino-American
Filipinos
Filippa
Filippino
Finzer
Fiona
Fionn
Fionna
Fionnuala
Fionnula
Fiora
Fiore
Fiorello
Fiorenza
Fiorenze
Fioretti
Fiot
Fir dommann
Firbank
Firbauti
Firbolg
Firbolgs
Fircrest
Firdausi
Firdousi
Firdusi
Fire and Ice
Firebaugh
Firebee
Firebird, The
Firebrick
Firenze
Firesteel
Firestone
Firman
Firmicus
Firmin
Firmisternia
Firmismalerei
Firoloida
Firooc
First Balkan War
First Chamber
First Empire
First Families of Virginia
First International
First Lord
First Lord of the Admiralty
First Lord of the Treasury
First Presidency
First Reader
First Reich
Floral Park
Florida
Floralia
Florance
Flore
Floreal
Florella
Florence
Florence fennel
Florence flask
Florecia
Florencita
Florena
Florentia
Florentine
Florentine school
Florentinism
Florenz
Florenza
Flores
Flores Sea
Floresville
Florette
Florey
Florham Park
Flori
Floria
Florian
Floriano
Florianolis
Florianopolis
Florida
Florida Current
Florida Keys
Florida Strait
Florida cat's-claw
Florida gold
Florida moss
Florida velvet bean
Florida water
Floridan
Florideae
Floridia
Floridian
Florie
Florien
Florin
Florina
Forgan
Foristell
Forkey
Forkland
Forks
Forksville
Forkunion
Forkville
Forl
Forland
Forli
Forlini
Form
Formalin
Forman
Formenti
Formica
Formicariae
Formicariidae
Formicidae
Formicina
Formicinae
Formicivora
Formicoidea
Formol
Formosa
Formosa Strait
Formosa oolong
Formosan
Formoso
Formosus
Fornacalia
Fornacis
Fornax
Forney
Forneys
Fornof
Forras
Forrer
Forrest
Forrest's Birthday
Forrestal
Forrester
Forreston
Fors fortuna
Forsan
Forsete
Forseti
Franco-provencal
Franco-prussian
Franco-roman
Franco-russian
Franco-soviet
Franco-spanish
Franco-swiss
Francois
Francois Coli
Francois Duvalier
Francois Giuliani
Francois Guay
Francois Jauffret
Francois Mitterrand
Francois de Menthon
Francoise
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Francoist
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Franconia
Franconian
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Francophile
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Francophobe
Francophobia
Francy
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Frank Caprice
Frank Carlucci
Frank Deford
Frank Iarossi
Frank Ikard
Frank Simonetti
Frank Viola
Frankclay
Franke
Frankel
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Frankenmuth
Frederika
Frederikberg
Frederiksen
Frederiksted
Frederique
Fredette
Fredholm
Fredi
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Fredi
Fredkin
Fredonia
Fredra
Fredric
Fredrich
Fredrick
Fredrickson
Fredrik
Fredrik Olausson
Fredrika
Fredrikstad
Fredville
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Free Church
Free French
Free Kirk
Free Kirker
Free Soil Party
Free State
Free Stater
Free Territory of Trieste
Free World
Free and Accepted Masons
Free kirk
Free-soil party
Free-soilism
Freeborn
Freeburg
Freeburn
Freechurcharism
Freed
Freedman
Freedom
Freedom 7
Freedomites
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French Guianese
French Guinea
French India
French Indochina
French Morocco
French North Africa
French Oceania
French Polynesia
French Revolution
French Revolutionary calendar
French Somaliland
French Sudan
French Togoland
French Union
French West Africa
French West Indies
French and English
French and Indian War
French arch
French bean
French bed
French blue
French bread
French bulldog
French chalk
French chop
French coach horse
French cricket
French cuff
French curve
French disease
French door
French doors
French doughnut
French drain
French dressing
French endive
French fake
French flat
French foot
French fried potatoes
French fries
French gray
French harp
French heel
French honeysuckle
French horn
French ice cream
French kid
French kiss
French knickers
French knot
French leave
French letter
French lilac
French literature
French lug
French marigold
French mulberry
French mustard
French navy
French nettle
French nude
French pancake
French pastry
French pitch
French plague
French pleat
French police
French polish
French pox
French roll
French roof
French rose
French school
French seam
French shroud knot
French sixth
French stick
French stick loaf
French system
French tab
French tamarisk
French telephone
French toast
French truss
French twist
French vermouth
French window
French windows
French-born
French-bred
French-built
French-educated
French-fashion
French-grown
French-heeled
French-kiss
French-looking
French-loving
French-made
French-manned
French-minded
French-polish
French-speaking
Frenchboro
Frenchburg
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Frenchies
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Frenchmen
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Frenchwoman
Frenchwomen
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Frewsburg
Frey
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Freyja
Freyr
Freyre
Freytag
Fri
Fria
Friant
Friar Minor
Friar Minor Capuchin
Friar Minor Conventual
Friar Preacher
Friar Tuck
Friar minor
Friar preacher
Friars Minor
Friars Minor Capuchin
Friars Minor Conventual
Friars Preachers
Friars minor
Friars preachers
Fribourg
Frick
Fricke
Frida
Friday
Friday the thirteenth
Fridays
Fridell
Fridila
Fridley
Fringillidae
Fringilliformes
Friona
Fris
Frisbee
Frisch
Frisches Haff
Frisco
Frisesomorom
Frisian
Frisian Islands
Frisian carving
Frisii
Frisse
Frissell
Fritch
Fritillaria
Frit
Fritts
Fritz
Fritze
Fritzie
Fritzsche
Friuli
Friuli-Venezia Giulia
Friulian
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Frobisher
Frobisher Bay
Frodeen
Frodi
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Frodina
Frodine
Froebel
Froebelian
Froebelism
Froebelist
Froehlich
Froemming
Frog
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Frogs, The
Froh
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Funaria
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Funch
Funchal
Funda
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Funfkirchen
Fungales
Fungi Imperfecti
Fungi imperfecti
Fungia
Fungurume
Funje
Funk
Funkia
Funkstown
Funston
Funtumia
Fuquay
Fur
Fur Seal Islands
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Furnerius
Furness
GDP
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GECOS
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GEE navigation
GEIS
GEISCO
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GEO
GFCI
GFTU
GG
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GHA
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GHz
GI
GI Joe
GI bride
GI can
GI shits
GI'd
GI'ing
GI's
GID
GIFI
GIGO
GIN
GISS
GLs
GKS
GKSM
GLC
GLOMR
GM
GM counter
GMB
GMBH
GMC
GMRT
GMT
GMW
GTC
GTE
GTG rocket
GTO
GTS
GTSI
GTT
GU
GUI
GUIDE
GUS
GW
GWEN
GWS
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Gaal
Gaastra
Gab
Gabaon
Gabaonite
Garbar
Gabbai
Gabbaim
Gabbert
Gabbey
Gabi
Gabbie
Gabbie
Gabbie
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Gabby
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Gaberones
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Gabi
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Gable
Gabler
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Gabriel
Gabriel Videla Gonzales
Gabriela
Gaelic
Gaelic coffee
Gaelic football
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Gaelicize
Gaeltacht
Gaertnerian
Gaeta
Gaetan Duchesne
Gaetano
Gaetano Allibrandi
Gaetano Cortesi
Gaetulan
Gaetuli
Gaetulian
Gaffkya
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Gafsa
Gag
Gagarin
Gagauzi
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Gagetown
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Gahan
Gahanna
Gahl
Gahrwali
Gaia
Gaidano
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Gail
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Gaillard Cut
Gaillardia
Gainer
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Gall's serrated type
Galla
Gallager
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Gallas
Gallatin
Gallaudet
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Galle
Gallegan
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Gallenz
Galleria
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Galley Hill man
Galli
Galli-Curci
Gallia
Gallian
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Gallicanism
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Gallinaceae
Gallinacei
Gallinae
Gallinago
Gallinas
Gallinas Point
Gallinula
Gallinulinae
Gallion
Gallipoli
Gallipoli Peninsula
Gallipolis
Gallirallus
Gallitzin
Gallman
Gallo-
Gallo-Rom
Gallo-Romance
Gallo-briton
Gallo-grecian
Gallo-roman
Galloman
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Gallomaniac
Galoperdix
Gallophile
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Galloway
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Gallup Poll
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Galois field
Galois theory
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Galt
Galton
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Galtonian theory
Galuppi
Galusha
Galuth
Galva
Galvan
Galvani
Galven
Galveston
Galveston Bay
Galveston plan
Galvin
Galway
Galways
Galwegian
Gama
Gamages
Gamal
Gamali
Gamaliel
Gamasidae
Gamasoidea
Gamay
Gambart
Gambell
Gamber
Gambetta
Gambi
Gambia
Gambier
Gambier Islands
Gamble
Gambrell
Gambrill
Gambrills
Gambrinus
Gambusia
Gambut
Gamelion
Garlan
Garland
Garland sunday
Garlanda
Garlen
Garlic sunday
Garlinda
Garling
Garm
Garmaise
Garment Center
Garment District
Garmisch-Partenkirchen
Garmr
Garnavillo
Garneau
Garner
Garnerville
Garnes
Garnet
Garnett
Garnette
Garo
Garofalo
Garold
Garonne
Garoua
Garrard
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Garrett
Garrettsville
Garrick
Garrigues
Garrik
Garris
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Garrison finish
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Garrisonville
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Garrulinae
Garrulus
Garry
Garry BJorklund
Garrya
Garryaceae
Garshuni
Garson
Gart
Garter
Garter King of Arms
Garth
Garthrod
Gartner
Garuda
Garv
Garvey
Garvin
Garvy
Garwin
Garwood
Gary
Gary Busey
Gary Gaetti
Gary Redus
Gary Suter
Gary Vitti
Garysburg
Garyville
Garzon
Gasan
Gasburg
Gascogne
Gascoigne
Gascon
Gasconade
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Gascony
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IE
IEC
IEE
IEEE
IEN
IESG
IETF
IF
IF amplification
IF amplifier
IF audio signal
IF oscillator
IF pulse
IF signal
IF transformer
IF video signal
IFB
IFC
IFF
IFF radar
IFIP
IFLA
IFLWU
IFO
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Yitzhak Rabin
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Yosemite National Park
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Yoshiko
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Yoshkar-Ola
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You Can't Go Home Again
You Can't Take It With You
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Young
Young Ireland
Young Italy
Young Lonigan
Young Pretender
Young Turk
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Zyzzogeton
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a Chinaman's chance
a Roland for an Oliver
a bad penny
a barren waste
a bas
a base
a battery
a being
a belief
a beneplacito
a better place
a bill of goods
a billion
a bit
a bit different
a bit much
a bit previous
a bit thick
a bit thin
a blanc
a bon marche
a brain-spattering
a breath
a broken reed
a bum rap
a bundle of nerves
a capite ad calcem
a cappella
a capriccio
a car in every garage
a card up your sleeve
a certain
a certain number
a cheval
a chicken in every pot
a comedy to those who think
a continental
a contre cour
a corner on
a corps perdu
a corpse upon the road of night
a couple of
a couvert
a crore
a crown of glory
a curse
a cut above
a damn
a dark illimitable ocean
a darn
a datu
a deal
a debt we all must pay
a decent sort of fellow
a demain
a deux
a diet of cake
a dime a dozen
a discretion
a disgrace to your name
a divinity that shapes our ends
a dog's life
a dome of many-colored glass
a drawing toward
a drop in the bucket
a drop in the ocean
a due
a fabulous
a fair field and no favor
a far cry
a far cry from
a fat chance
a fat lot
a fatal complaint
a feather in your cap
a few
a few words of wisdom
a finder of occasions
a fire-red cherubim's face
a fond
a fool
a form of catharsis
a form of genius
a fortiori
a fortiori reasoning
a game of circles
a game two can play
a gentleman and a scholar
a ghost of a chance
a globe burnt out
a god in ruins
a gogo
a good hand at
a good ways off
a great deal
a greater number
a habit
a hall
a hang at
a hang for
a handicraft in flower
a handmaid to religion
a hard
a hieroglyphic
a high
a hit below the belt
a hive of glass
a hog for
a hoot
a huis clos
a hundred to one
a jillion
a kind of praise
a knave
a l'allemande
a l'americaine
a l'anglaise
a l'aurore
a l'espagnole
a l'estragon
a l'etouffee
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a la Chateaubriand
a la Crecy
a la Croissy
a la Maintenon
a la Marengo
a la Maryland
a la Newburg
a la Perigord
a la Soubise
a la bearmaise
a la bonne femme
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a la francaise
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a la grecque
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a la king
a la lyonnaise
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a la mode de Caen
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a la tartare
a la vinaigrette
a la
a lakh
a lamp unto my feet
a leg up
a lick and a promise
a life of dignified otiosity
a lily-livered
a little
a little at a time
a little learning
a little one-eyed
a little sleep
a little slumber
a little thing
a little too thick
a load off your mind
a long cry to
a long lesson in humility
a long pull
a long time ago
a long way off
a long while ago
a lot
a lot alike
a lot going for one
a lot on the ball
a lot to do with
a lot to say about
a man
a man among men
a mass of
a mensa et thoro
a mile long
a mile off
a million
a mind of your own
a minor form of despair
a mite different
a moment standing still for ever
a monster begot upon itself
a month of Sundays
a myriad
a necessary evil
a new lease on life
a nickname of Providence
a nipping and an eager air
a noble and expressive language
a nobody
a nonillion
a nose for news
a nothing
a novice at
a number
a number of times
a outrance
a pack of lies
a paltry thing
a party to
a pas de geant
a pat on the back
a per se
a person of low taste
a perte de vue
a piacere
a pick a back
a piece of cake
a piece of the action
a place in the sun
a placing over against
a plague upon
a play for time
a play of passion
a plomb
a poco
a poem without words
a poor
a posteriori
a posteriori reasoning
a pox upon
a prendre
a preparation
a pretty mocking of the life
a pretty penny
a priori
a priori knowledge
a priori principle
a priori reasoning
a priori truth
a propos
a punta d'arco
a pure and grandfather moss
a putting or inflicting upon
a putting or lying between
a quadrillion
a quarter after
a quarter of
a quarter past
a quarter to
a quo
a radical change
a rascal
a rascally yeaforsooth knave
a reasoning animal
a rebours
a reckoning of
a reculons
a rivederci
a robbery
a ruined world
a runout powder
a sadder and a wiser man
a sandpile we run our fingers in
a screw loose
a seat where gods might dwell
a set of lies agreed upon
a short life and a merry one
a short time ago
a single separate person
a slipper and subtle knave
a sort of second nature
a sound mind in a sound body
a stitch in time
a stranger to
a string to it
a stroke above
a strong brown god
a strong pull
a sucker
a tale told by an idiot
a tale-bearing animal
a tall order
a tattered coat upon a stick
a temple sacred by birth
a tempo
a tergo
a theft
a thing for
a thing that shades
a thing to be desired
a thinking reed
a third something
a thousand
a thousand and one
a thousandfold
a thrusting away
a tinker's damn
a tool-making animal
a tool-using animal
a tooth for a tooth
a toute a l'heure
a toute outrance
a tragedy to those who feel
a transient madness
a turn to the right-about
a tyrant
a tyro at
a vast
a verray parfit gentil knight
a vinculo matrimonii
a vol
a votre sante
a way back
a whoreson
a wild of sand
a will of your own
a wise passiveness
a world of
a world-without-end bargain
a year and a day
a young person
abdominal epilepsy
abdominal hernia
abdomino-uterotomy
abducent nerve
abelian group
aberdeen angus
aberrant duct
aberration constant
abide by
abide in
abide with
abide your time
abiding place
abietic acid
abject apology
abject defeat
abject fear
ablative absolute
ablative operation
able rating
able seaman
able to adapt
able to bend without breaking
able to pay
able to roll with the punches
able to walk the chalk
able to walk the chalk line
able to walk the chalk mark
able-bodied
able-bodied seaman
able-bodiedness
able-minded
able-mindedness
ablation room
abnormal psychology
abo group
abo system
aboard the bandwagon
abode of the blessed
abode of the damned
abode of the dead
aboli fruit
abominable snowman
abortive attempt
abound with
abounding in riches
about face
about it and about
about ship
about the bush
about this size
about to
about to be
about to happen
about to piss your pants
about turn
about-face
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about-shipped
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about-sledge
about-turn
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above all that
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above board
above par
above stairs
above suspicion
above the line
above the pitch
above water
above your head
above-board
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above-quoted
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above-written
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abraxas stone
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abreast of the times
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absence of assignable cause
absence of authority
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absence of motion
absence state
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absent flag
absent treatment
absent voter
absent without leave
absent yourself
absent yourself from
absent-minded
absent-mindedly
absent-mindedness
absente reo
absentee ballot
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absentee vote
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absentee voting
absinthe green
absinthe oil
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absolute altitude
absolute angstrom
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absolute credibility
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absolute fact
absolute free will
absolute humidity
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absolute interest
absolute likeness
absolute magnitude
absolute majority
absolute master
absolute maximum
absolute minimum
absolute monarch
absolute monarchy
absolute music
absolute permeability
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absolute power
absolute realism
absolute ruler
absolute scale
absolute space
absolute spirit
absolute temperature
absolute unit
absolute value
absolute veto
absolute viscosity
absolute zero
absolutely no
absolutely right
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absorb the shock
absorb the thought
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absorbed in
absorbed in thought
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absorbed with
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absorber oil
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absorption and regurgitation
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absorption bands
absorption circuit
absorption coefficient
absorption current
absorption discontinuity
absorption dynamometer
absorption edge
absorption factor
absorption limit
absorption lines
absorption pipette
absorption screen
absorption spectrum
absorption system
abstain from
abstinence from food
abstinence theory
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abstract art
abstract classicism
abstract classicist
abstract expressionism
abstract expressionist
abstract group
abstract idea
abstract mathematics
abstract mechanics
abstract noun
abstract of title
abstract space
abstract thought
abstract yourself
absurd idea
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abundant number
abundant year
aburachan seed
abuse a privilege
abuse of office
abuse of terms
abuse your rights
abuse yourself
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abut upon
abutment arch
abutment pier
abutting joint
abyssal rock
abyssal zone
abyssinian cat
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ac-globulin
accommodation address
accommodation bill
accommodation draft
accommodation group
accommodation ladder
accommodation line
accommodation paper
accommodation train
accommodation works
accompaniment figure
accompanying fire
accomplice in crime
accomplished fact
accord a blank check
accord respect to
accord to
according as
according to
according to Hoyle
according to circumstances
according to custom
according to expectation
according to law
according to regulations
according to reports
according to rule
according to rumor
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according to the bargain
according to the contract
according to the dictates of Mrs
according to the evidence
according to the letter
according to this reading
according to use
according to your lights
accordion pleat
accordion pleats
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acetylene tetrachloride
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ach-y-fi
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ache to
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achieve inner harmony
achieve orgasm
achieve satisfaction
achieve success
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acme screw thread
acme thread
acne vulgaris
aconite violet
acorn barnacle
acorn chair
acorn clock
acorn cup
acorn duck
acorn moth
acorn shell
acorn spoon
acorn squash
acorn sugar
acorn tube
acorn valve
acorn weevil
acorn worm
acorn-shell
acouchi resin
acoustic feature
acoustic gramophone
acoustic impedance
acoustic inertance
acoustic mass
acoustic meatus
acoustic mine
acoustic nerve
acoustic ohm
acoustic phonetics
acoustic reactance
acoustic resistance
acoustic tile
acoustic wave
acoustical cloud
acoustical engineer
acoustical network
acoustical phenomenon
acoustico-
acquaint yourself with
acquainted with
acquiesce in
acquire information about
acquire intelligence about
acquired character
acquired characteristic
acquired epilepsy
acquired immunity
acquired syphilis
acquired taste
acquired tolerance
acquisition of knowledge
acquit yourself
acquit yourself of
acquittance roll
acr-
acre-dale
acre-foot
acre-inch
acridine dye
acridine dyes
acridine yellow
acriflavine hydrochloride
acro-
acrobatic evolutions
acrobatic maneuvers
across the board
across the grain
across the sea
across-the-board
acrylate resin
acrylic acid
acrylic acid series
acrylic aldehyde
acrylic ester
acrylic fiber
acrylic fibre
acrylic paint
acrylic painting
acrylic resin
acryllyl group
acryllyl radical
act a part
act a role
act all over the stage
act as
act as a cathartic
act as feeder
act as foil
act beneath yourself
act between
act call
act curtain
act drop
act for
act holier than thou
act in concert
act in opposition to
act in the interests of
act in the place of
act like
act like a tonic
act like a trouper
act of God
act of accomplishing
act of contrition
act of courtesy
act of faith
act of folly
act of god
act of grace
act of kindness
act of love
act of lowering
act of politeness
act of rising
act of thought
act of war
act on
act on behalf of
act on the spur of the moment
act on your own responsibility
act opposite
act out
act psychology
act the fool
act the grand seigneur
act the hypocrite
act the part of
act the traitor
act together
act toward
act tune
act up
act up to
act upon
act warning
act well
act with
act with regard to
act your age
act your part
act-wait
actin-
acting area
acting company
acting corporal
acting device
acting school
acting sergeant
acting-out
actinic light
actinic radiation
actinic ray
actinide series
actinium emanation
actinium series
actino-
actinouranium series
action and reaction
action busher
action consciousness
action current
action extension
actionfiler
action finisher
action forger
action freer
action jointer
action machiner
action noun
action painter
action painting
action potential
action rail
action regulator
action replay
action sermon
action stations
action theory
action time
action viewer
action-taking
action-taking knave
activated alumina
activated carbon
activated charcoal
activated epilepsy
activated sludge
activated-sludge process
activation energy
active algolagnia
active carbon
active communications satellite
active current
active duty
active fancy
active immunity
active layer
active list
active market
active operations
active principle
active reason
active securities
active service
active stock
active treatment
active use
active voice
active-bodied
active-limbed
active-minded
activist art
activity coefficient
activity stream
activity theory
actor's agent
actor's lines
actor-manager
actor-proof
actual cautery
actual cost
actual energy
actual fact
actual grace
actual presence
actual price
actual sin
actual thing
actuality theory
actuarial calculation
actuarial prediction
actuarial table
acute accent
acute alcoholism
acute angle
acute anterior poliomyelitis
acute arch
acute arthritis
acute articular rheumatism
acute bisectrix
acute bronchitis
acute condition
acute conjunctivitis
acute disease
acute inflammation
acute leukemia
acute pain
acute sense of hearing
acute sight
acute-angled
acute-angled triangle
acuti-
acuto-
acuyari palm
acuyari wood
acyclic co-ordinates
acyclic terpene
acyl group
acyl radical
ad Kalendas Graecas
ad arbitrium
ad astra per aspera
ad captandum vulgus
ad esse
ad eundem
ad extremum
ad fin
ad gloriam
ad hoc
ad hoc committee
ad hoc measure
ad hominem
ad hominem attack
ad in
ad inf
ad infinitum
ad init
ad initium
ad int
ad interim
ad lib
ad libitum
ad limina
ad litem
ad litteram
ad loc
ad majorem Dei gloriam
ad nauseam
ad out
ad patres
ad quem
ad rem
ad utrumque paratus
ad val
ad valorem
ad valorem duty
ad valorem tax
ad verbum
ad vitam
ad vivum
ad-
ad-lib
ad-libbed
ad-libber
ad-libbing
adam's apple
adam's needle
adam-and-eve
adapt to
adapted to
adaptive radiation
adar sheni
add a codicil
add fuel to the fire
add fuel to the flame
add gas
add insult to injury
add to
add up
add up to
add-add
added sixth
added sixth chord
added to
addendum circle
adder bead
adder fly
adder gem
adder pike
adder stone
adder's fern
adder's violet
adder's-grass
adequate supply
ader wax
adhere to
adhere to your principles
adherence to the old and tried
adherent noun
adhesive cell
adhesive compress
adhesive factor
adhesive inflammation
adhesive plaster
adhesive tape
adiabatic absorption
adiabatic chart
adiabatic demagnetization
adiabatic diagram
adiabatic expansion
adipic acid
adipose fin
adipose tissue
adjacent angles
adjectival phrase
adjective equivalent
adjective pronoun
adjoint curve
adjoint differential equation
adjunct Logic
adjust to
adjust yourself to
adjustable propeller
adjustable spanner
adjustable wrench
adjustable-pitch
adjusted to
adjustive reaction
adjustment bond
adjustment mortgage
adjutant bird
adjutant crane
adjutant general
adjutant general corps
adjutant stork
adjutant-general
adjutants general
adjuvant treatment
administer Communion
administer a sacrament
administer absolution
administer an oath
administer extreme unction
administer justice
administer rites
administer the Eucharist
administer to
administration of justice
administration, the
administrative county
administrative engineer
administrator ad litem
admiral of the fleet
admiral shell
admiralty alloy
admiralty bond
admiralty brass
admiralty bronze
admiralty cloth
admiralty law
admiralty metal
admiralty mile
admiration mark
admission fee
admission of light
admit everything
admit exceptions
admit of
admit of comparison
admit of no doubt
admit of no option
admitted fact
admitting no denial
admitting no dispute
admitting no doubt
admitting no exception
admitting no question
admitting that
adobe bug
adobe flat
adobe house
adobe lily
adobe tick
adolescent beard
adolescent stream
adopt a belief
adopt the cause of
adorer le veau d'or
adp-
adq-
adren-
adrenal gland
adrenal insufficiency
adrenocorticotropic hormone
adrenocorticotropic hormone
adsorption compound
adsorption isotherm
adsuki bean
adult education
adulterous affair
advance against
advance agent
advance base
advance fee
advance guard
advance man
advance note
advance notice
advance party
advance payment
advance poll
advance sheets
advance signal
advance to the rear
advance tracks
advance upon
advanced age
advanced degree
advanced gas-cooled reactor
advanced guard
advanced in life
advanced in years
advanced standing
advanced trainer
advanced work
advanced years
advancing color
advantage ground
advantageous purchase
advection fog
advent sunday
adventure playground
adventure story
adverb equivalent
adverbiale noun
adverbiale phrase
aversive asyndeton
adversative conjunction
adverse circumstances
adverse criticism
adverse party
adverse possession
adverse to
advert to
advertise of
advertise yourself
advertisement canvasser
advertisement contractor
advertising account
advertising agency
advertising man
advertising matter
advertising writer
advice boat
advise colleague
advise with
advise with your pillow
advisory body
advisory council
advisory opinion
advocacy journalism
advocatus diaboli
advocatus ecclesiae
adz block
adz eye
adzuki bean
ae-
eaolian harp
aeolian lyre
aeolo-
eaons ago
aequo animo
aer-
aerating root
aere perennis
aeri-
aerial bomb
aerial combat
aerial heights
aerial infection
aerial ladder
aerial mine
aerial mosaic
aerial navigation
aerial perspective
aerial photograph
aerial photographer
aerial photography
aerial pingpong
aerial railway
aerial reconnaissance camera
aerial survey
aerial tactics
aerial torpedo
aerial tramway
aerial warfare
aero engine
aero-
aero-otitis
aero-otitis media
aerobic bacteria
aerobic organism
aerodynamic center
aerodynamic pitch
aerodynamic trajectory
aerodynamic volume
aerodynamic wave drag
aerogenic tuberculosis
aerological instrument
aeronautical chart
aeronautical engineer
aeronautical engineering
aeronautical meteorology
aeronautical relay
aeroottitis media
aeroplane cloth
aeroplane spin
aerosol bomb
aerosol therapy
aerospace engineer
aerospace engineering
aerospace medicine
aerospace research
aerospace science
aerospace technology
aerostatic lift
aerothermodynamic duct
aerotitis media
aesthesio-
aesthetic distance
aesthetic form
aesthetic judgment
aesthetic proportions
aesthetic taste
aesthetically appealing
aesthophyiology
aetatis suae
aethiops mineral
af-
afar off
afebrile delirium
aff loof
affair of honor
affair of the heart
affaire d'amour
affaire d'honneur
affaire de coeur
affaires d'amour
affaires d'honneur
affaires de coeur
affect emotionally
affect epilepsy
affect memory
affect the guise of
affect the interest
affect the manner of
affect your mind
affectedly nice
affectual name
affective faculty
affective meaning
afferent neuron
affiliate to
affiliate with
affiliated stations
affiliation order
affiliation proceedings
affine connection
affine geometry
affine group
affine transformation
affinity constant
affirmative action
affirmative attitude
affirmative expression
affirmative flag
affirmative voice
affirmative vote
affirmative-action
affirming gun
afford hope
afford proof of
afford support
afford to pay
afford you pleasure
affording no hope
afghan hound
afghan stitch
afghani rupee
afoot and lighthearted
afore-acted
afore-cited
afore-coming
afore-decried
afore-given
afore-going
afore-granted
afore-heard
afore-known
afore-mentioned
afore-planned
afore-quoted
afore-running
afore-seeing
afore-seen
afore-spoken
afore-stated
afore-told
afoul of
afraid of your shadow
african violet
afro-american
afro-asiatic languages
aft the fantail
after a fashion
after a time
after a while
after all
after all is said and done
after bridge
after death
after deck
after mast
after shroud
after that
after the Fall
after the fact
after the flood
after the manner of men
after the war
after this
after this fashion
after time
after which
after your fancy
after your heart
after your own heart
after-
after-acquired
after-born
after-course
after-described
after-designed
after-dinner
after-dinner speaker
after-dinner speech
after-game
after-grass
after-guard
after-hours joint
after-image
after-life
after-mentioned
after-named
after-pain
after-shave lotion
after-specified
after-stampable
after-supper
after-theater
after-theatre
after-wit
after-written
afterbirth weed
afternoon lady
afternoon tea
afternoon watch
aftershave lotion
ag lug
ag-
again and again
again and yet again
again-
against all expectation
against order and discipline
against the
delayed
against the clock
delayed
against the grain
delayed
against the law
delayed
against the new and untried
delayed
against the sun
delayed
against the tide
delayed
against the time when
delayed
against the wind
delayed
against time
delayed
against your grain
delayed
against your will
delayed
against
agal-agal
delayed
agar-agar
delayed
agaric acid
delayed
agaric mineral
delayed
agaric acid
delayed
agate glass
delayed
agate gray
delayed
agate jasper
delayed
agate line
delayed
agate opal
delayed
agate shell
delayed
agate snail
delayed
agatho-
delayed
agave cactus
delayed
age class
delayed
age coating
delayed
age distribution
delayed
age grade
delayed
age group
delayed
age hardening
delayed
age limit
delayed
age norm
delayed
age of Aquarius
delayed
age of consent
delayed
age of discretion
delayed
age of growing pains
delayed
age of ignorance
delayed
age of matured powers
delayed
age of responsibility
delayed
age of retirement
delayed
age score
delayed
age society
delayed
age-adorning
delayed
age-bent
delayed
age-coeval
delayed
age-cracked
agony of mind
agony of spirit
agony of suspense
agrarian economics
agrarian economy
agree for the sake of argument
agree in opinion
agree in principle
agree on
agree on a verdict
agree on terms
agree provisionally
agree to
agree to anything
agree to differ
agree to disagree
agree upon
agree with
agreeable rattle
agreeable to
agreeable-sounding
agreeably to
agreed case
agreed on all hands
agreement in principle
agreement of all
agreement to disagree
agricultural agent
agricultural ant
agricultural chemical
agricultural deities
agricultural engineer
agricultural geology
agricultural region
agriculture divinity
agrimony bark
agrimony water hemp
agro-
ague bark
ague cake
ague drop
ague grass
ague tree
ague-faced
ague-plagued
ague-rid
ague-sore
ague-struck
aguja volador
ahead both motors
ahead full
ahead of
ahead of its time
ahead of the game
ahead of time
ahead one-third
ahead standard
ahead two-thirds
ahoy there
aid and abet
aid and comfort
aid for the blind
aid grant
aid prayer
aid station
aid to dependent children
aid to navigation
aid to the blind
aid-de-camp
aide-de-camp
aide-de-campship
aide-memoire
aide-mmoire
aides-de-camp
aids-de-camp
aigre-doux
aigue-marine
ailanthus family
ailanthus moth
ailanthus silkworm
aileron angle
aileron roll
aim a blow at
aim at
aim at a pigeon and kill a crow
aim high
aim to
aimed at
aiming point
ain't it the truth
air a grievance
air age
air alert
air ambulance
air arm
air armada
air attack
air bag
air base
air bath
air bed
air bell
air belt
air bends
air billow
air bladder
air blast
air blow
air blue
air box
air brake
air breather
air brick
air bridge
air brush
air bubble
air bump
air bus
air cadet
air car
air cargo
air carrier
air casing
air castle
air cataract
air cavalry
air cell
air chamber
air chest
air chief marshal
air chuck
air circuit breaker
air cleaner
air coach
air cock
air combat
air command
air commodore
air compressor
air condenser
air conditioner
air conditioning
air conduction
air consignment note
air control
air controlman
air controls
air cooler
air cooling
air corps
air corridor
air course
air cover
air crash
air crew
air crossing
air cruiser
air current
air curtain
air cushion
air cushion car
air cylinder
air discharge
air division
air drain
air drainage
air drill
air duct
air ejector
air embolism
air engine
air express
air filter
air fleet
air float
air flow
air force
air freight
air furnace
air gap
air gas
air gauge
air glow
air gun
air hammer
air harbor
air hoist
air hole
air horn
air hostess
air hunger
air injection
air terminal
air thermometer
air thread
air traffic
air train
air transport
air trap
air travel
air trumpet
air trunk
air tube
air turbine
air twist
air umbrella
air university
air valve
air varie
air vent
air vesicle
air vice-marshal
air volcano
air volume
air war
air warden
air warfare
air washer
air waybill
air well
air wood
air zone
air-balloon
air-bind
air-blasted
air-blown
air-born
air-borne
air-bound
air-braked
air-braving
air-break switch
air-breathe
air-breathed
air-breather
air-breathing
air-bred
air-built
air-chambered
air-cheeked
air-clear
air-clutch reverse
air-condition
air-conditioned
air-conditioning
air-conscious
air-conveying
air-cool
air-cooled
air-core
air-core coil
air-cure
air-cushion vehicle
air-defiling
air-drawn
air-dried
air-driven
air-dry
air-drying
air-earth current
air-embraced
air-express
air-faring
air-filled
air-floated
air-formed
air-hardened steel
air-hardening
air-hardening steel
air-heating
air-insulated
air-intake
air-lance
air-lanced
air-lancing
air-line
air-logged
air-mail
air-mass shower
air-minded
air-mindedness
air-pervious
air-raid
air-raid alarm
air-raid shelter
air-raid warden
air-sea rescue
air-sea rescue amphibian
air-sea rescue plane
air-season
air-seasoned
air-shy
air-slake
air-slaked
air-slaking
air-speed head
air-speed indicator
air-spray
air-sprayed
air-spun
air-stirring
air-swallowing
air-threatening
air-to-air
air-to-ground
air-to-surface
air-traffic control
air-traffic controller
air-trampling
air-twisted
air-vessel
air-wall ionization chamber
air-wise
air-wiseness
airborne controls
airborne infection
airborne intercept radar
airborne operations
airborne particles
airborne radar
airborne radioactivity
airborne rocket
airborne tactics
aircraft carrier
aircraft cloth
aircraft division
aircraft engine
aircraft engines
aircraft fabric
aircraft hydraulics
aircraft mechanic
aircraft observer
aircraft section
aircraft station
aircraft tender
al-Sahih
al-Uzza
alamo vine
alang grass
alang-alang
alant camphor
alant starch
alar cartilages
alar ligaments
alar septum
alar thoracic artery
alarm bell
alarm bird
alarm clock
alarm fire
alarm gauge
alarm post
alarm reaction
alarm signal
alarm valve
alarm watch
alarums and excursions
alaska time
alaskan malamute
albatross around your neck
albatross cloth
albedo unguis
albert-type
albite law
album board
album paper
albumen plate
albumin color
albumin tannate
albumino-
albuminoid ammonia
alchim-
alchym-
alco-ometer
alco-ometric
alco-ometrical
alco-ometry
alcohol acid
alcohol engine
alcohol stove
alcohol tax
alcohol torch
alcoholic addict
all eyes
all eyes and ears
all fives
all flesh is grass
all fool's day
all fools' day
all for
all for one
all for the best
all fours
all get out
all get-out
all gone
all good go with you
all hail
all hands
all hollow
all hopped up about
all hot and bothered
all ills that men endure
all in
all in a dither over
all in all
all in good time
all in hand
all in the day's work
all in the mind
all in the wind
all included
all jaw
all joking apart
all joking aside
all kinds of
all nerves
all night
all of
all of a flutter
all of a heap
all of a sudden
all of a twitter
all off
all on
all on one side
all one
all out
all over
all over but the shouting
all over hell
all over the lot
all over the map
all over the place
all over the shop
all over the town
all over the world
all over with
all over yourself
all present and accounted for
all put together
all ready
all right
all right already
all round
all said and done
all saints
all saints' day
all serene
all set
all set for
all shook up
all sorts
all sorts of
all souls
all souls' day
all square
all squares
all standing
all straight
all tears
all that
all that is
all that is coming to one
all that lives
all the
all the best
all the better
all the better for
all the comforts of home
all the cry
all the day long
all the days of your life
all the heart can desire
all the ills that men endure
all the more
all the more so
all the rage
all the same
all the thing
all the time
all the way
all the way to
all the while
all the world
all the worse for
all the year round
all there
all things considered
all things counter
all threes
all through
all through the night
all thumbs
all to
all to pieces
all to the good
all together
all told
all two
all up
all up with
all wet
all who love
all wool and a yard wide
all work
all wound up in
all wrapped up in yourself
all wrong
all you can bear
all you can do
all you can manage
all you can stand
all you can take
all your born days
all your got
all your natural life
all' ottava
all's well
all-
all-American
all-a-mort
all-abhorred
all-able
all-absorbing
all-accomplished
all-acting
all-concealing
all-conceiving
all-concerning
all-confounding
all-conquering
all-conscious
all-considering
all-constant
all-constraining
all-consuming
all-content
all-controlling
all-convincing
all-convincingly
all-covering
all-creating
all-creator
all-crop harvester
all-curing
all-daring
all-day
all-dazzling
all-deciding
all-defiance
all-defying
all-depending
all-designing
all-desired
all-despising
all-destroyer
all-destroying
all-devastating
all-devouring
all-dimming
all-directing
all-discerning
all-discovering
all-disgraced
all-dispensing
all-disposer
all-disposing
all-divine
all-divining
all-dreaded
all-dreadful
all-drowsy
all-earnest
all-eating
all-efficacious
all-efficient
all-eloquent
all-embracing
all-embracingness
all-encompasser
all-encompassing
all-ending
all-enduring
all-engrossing
all-engulfing
all-enlightened
all-enlightening
all-enraged
all-envied
all-essential
all-evil
all-excellent
all-expense
all-expenses-paid
all-eyed
all-fair
all-filling
all-fired
all-firedest
all-firedly
all-flaming
all-flotation
all-flower-water
all-flying tail
all-foreseeing
all-forgetful
all-forgetting
all-forgiving
all-forgotten
all-fullness
all-gas
all-giver
all-glorious
all-golden
all-governing
all-gracious
all-grasping
all-great
all-guiding
all-hallow
all-hallowed
all-happy
all-healing
all-hearing
all-heeding
all-helping
all-hiding
all-holy
all-honored
all-hoping
all-hurting
all-idolizing
all-illuminating
all-imitating
all-important
all-impressive
all-in
all-in-one
all-including
all-inclusive
all-inclusiveness
all-infolding
all-informing
all-interesting
all-interpreting
all-invading
all-involving
all-jarred
all-judging
all-just
all-justifying
all-kind
all-knavish
all-knowing
all-knowingness
all-land
all-lavish
all-licensed
all-lovely
all-loving
all-maintaining
all-maker
all-making
all-maturing
all-meaningness
all-merciful
all-metal
all-might
all-miscreative
all-murdering
all-night
all-night vigil
all-noble
all-nourishing
all-obedient
all-obeying
all-oblivious
all-obscuring
all-oil
all-or-none
all-or-none law
all-ordering
all-out
all-out campaign
all-out war
all-over
all-overish
all-overishness
all-overpowering
all-overs
all-overtopping
all-panting
all-parent
all-pass
all-patient
all-peaceful
all-penetrating
all-peopled
all-perceptive
all-perfect
all-perfection
all-perfectness
all-perficient
all-persuasive
all-pervading
all-pervadingness
all-pervasive
all-pervasiveness
all-piercing
all-pitiless
all-pitying
all-pondering
all-possessed
all-potency
all-potent
all-potential
all-power
all-powerful
all-powerful ruler
all-powerfully
all-powerfulness
all-praised
all-praiseworthy
all-presence
all-present
all-prevailing
all-prevailingness
all-prevalency
all-prevalent
all-preventing
all-prolific
all-protecting
all-provident
all-providing
all-puissant
all-pure
all-purpose
all-quickening
all-rail
all-rapacious
all-reaching
all-red
all-redeeming
all-relieving
all-rending
all-righteous
all-round
all-round price
all-roundedness
all-rounder
all-rubber
all-ruling
all-sacred
all-sanctifying
all-satiating
all-satisfying
all-saving
all-sayer
all-sea
all-searching
all-seeing
all-seeingly
all-seeingness
all-seer
all-shaking
all-shamed
all-shaped
all-shrouding
all-shunned
all-sided
all-silent
all-sized
all-sliming
all-soothing
all sorts
all-soul
all-sparing
all-star
all-stars
all-steel
all-strangling
all-subduing
all-submissive
all-substantial
all-sufficiency
all-sufficient
all-sufficiently
all-sufficing
all-surpassing
all-surrounding
all-surveying
all-sustainer
all-sustaining
all-swallowing
all-swaying
all-telling
all-terrible
all-thorny
all-time
all-time great
all-tolerating
all-transcending
all-triumphing
all-truth
all-turned
all-turning
all-understanding
all-unwilling
all-upholder
all-upholding
all-various
all-vast
all-watched
all-water
all-wave receiver
all-weak
all-weather
all-weather fighter
all-weight
all-whole
all-wisdom
all-wise
all-wisely
all-wiseness
all-wondrous
all-wood
all-wool
all-working
all-worshiped
all-worthy
all-wrongness
all-year
alla bolognese
alla breve
alla cacciatore
alla capella
alla diavola
alla fiorentina
alla marcia
alla marinara
alla milanese
alla parmigiana
alla pizzaiola
alla prima
alla romana
alla siciliana
alla veneziana
alla vostra salute
allan hawk
allantoic membrane
allee couverte
allegation of facts
allege in support
allege in vindication
allegheny spurge
allemande sauce
aller sans dire
aller-retour
allergic disease
allergic disorder
allergic gastritis
allergic rhinitis
allspice oil
allspice tree
allude to
alluring gland
alluvial cone
alluvial fan
alluvial plain
allways fuze
ally-ally out'n free
allyl alcohol
allyl aldehyde
allyl caproate
allyl chloride
allyl group
allyl isothiocyanate
allyl mercaptan
allyl mustard oil
allyl radical
allyl resin
allyl sulfide
allyl sulphide
allyl thiocarbamide
alma mater
alma-materism
almain-rivets
almenn turma
almes se
almighty dollar
almond black
almond brown
almond cake
almond extract
almond eye
almond family
almond green
almond kernel
almond meal
almond milk
almond oil
almond paste
almond peach
almond tumbler
almond willow
almond-eyed
almond-furnace
almond-leaved
almond-leaved willow
almond-shaped
almoner's cupboard
almost entirely
almost everywhere
almost periodic function
almost unheard-of
alms bag
alms basin
alms basket
alms box
alms bread
alms chest
alms dish
alms fee
alms gate
alms land
alms penny
alms priest
alms purse
alms-dealing
alms-fed
alms-house
almucantar staff
aloe creole
aloe hemp
aloe lace
aloe malgache
aloe-emodin
aloes green
aloes wood
aloft there
along by
along in years
along of
along the side of
along the way
along these lines
along toward
along with
alongside of
aloof from
alopecia areata
alopecia celsi
alopecia circumscripta
alouchi resin
allow and aloft
alpha and omega
alpha brass
alpha decay
alpha iron
alpha particle
alpha privative
alpha pulse analyzer
alpha radiation
alpha radiator
alpha ray
alpha rhythm
alpha score
alpha test
alpha-amylase
alpha-beta brass
alpha-cellulose
alpha-eucaine
alpha-hypophamine
alpha-naphthol
alpha-naphthyl group
alpha-naphthyl radical
alpha-naphthylamine
alpha-naphthylthiourea
alpha-particle scattering
alpha-stannic acid
alpha-tocopherol
alpha-truxilline
alphabet book
alphabet code
alphabet method
alphabet plant
alphabet soup
alphabetic character
alphabetic data
alphabetic symbol
alphabetical printer
alphanumeric code
alpine anemone
alpine aster
alpine azalea
alpine bartsia
alpine beardtongue
alpine bent grass
alpine birch
alpine bistort
alpine brook saxifrage
alpine campion
alpine catchfly
alpine chough
alpine clover
alpine cress
alpine eyebright
alpine fir
alpine fireweed
alpine forget-me-not
alpine garden
alpine geranium
alpine glacier
alpine goldenrod
alpine hemlock
alpine holy grass
alpine lady fern
alpine larch
alpine lousewort
alpine molewort
alpine oat grass
alpine poppy
alpine rice grass
alpine rock cress
alpine rose
alpine sedge
alpine spring beauty
alpine spruce
alpine strawberry
alpine tundra
alpine umbrella plant
alpine whitebark pine
alpine whorl grass
alpine woodsia
alps on alps
already in sight
alsike clover
also not
also-ran
alta vox
altar board
altar boy
altar bread
altar call
altar card
altar carpet
altar chime
altar cloth
altar desk
altar dues
altar facing
altar front
altar hearse
altar mound
altar of prothesis
altar of repose
altar plate
altar rail
altar side
altar slab
altar stair
altar stand
altar stead
altar stole
altar stone
altar tomb
altar wine
altazimuth mounting
alter ego
alter idem
alter into
alter your course
altered chord
alternate angles
alternate choice
alternate plumage
alternate school
alternate straight
alternate-leaved
alternating current
alternating current motor
alternating group
alternating light
alternating personality
alternating series
alternating voltage
alternating-current circuit
alternating-current servo
alternating-gradient focusing
alternation of generations
alternative school
alternative vote
alteri-
alti-
alti-rilievi
altitude dial
altitude mixture control
altitude of flight
altitude peak
altitude pressure
altitude sickness
alto clarinet
alto clef
alto flute
alto horn
alto saxhorn
alto viol
alto-
alto-cumulus
alto-cumulus-castellatus
alto-relievo
alto-relievos
alto-rilievo
alto-stratus
altocumulus castellanus
altocumulus castellatus
altocumulus floccus
altocumulus lenticularis
altocumulus stratiformis
altogether, the
altruistic ethics
aluchi resin
aludel furnace
alum cake
alum carmine
alum cochineal
alum flower
alum glass
alum haematoxylin
alum meal
alum rock
alum schist
alum shale
alum stone
alum-hypo toning process
alumina cement
alumina cream
alumina trihydrate
aluminio-
aluminium hydroxide
aluminium oxide
aluminium sulphate
alumino-
aluminous cake
aluminum acetate
aluminum ammonium sulfate
aluminum borate
aluminum borohydride
aluminum brass
aluminum bronze
aluminum carbide
aluminum chloride
aluminum family
aluminum fluosilicate
aluminum foil
aluminum gold
aluminum hydrate
aluminum hydroxide
aluminum monostearate
aluminum nitrate
aluminum oxide
aluminum paint
aluminum potassium sulfate
aluminum silicate
aluminum sulfate
aluminum sulphate
alun-alun
alva marina
alveolar arch
alveolar process
alveolar ridge
alveolo-
alveololar sulci
alveololingual sulci
always and everywhere
always trot out
alyce clover
amalgam arc
amalgam gilding
amalgamation process
amande amere
amande douce
amande pralinee
amandes mondees
amanita hemolysin
amanita toxin
amarant family
amaranth family
amaranth pink
amaranth-purple
amaryllis family
amassing evidence
amateur athlete
amateur band
amateur radio operator
amateur standing
amateur station
amateur status
ambulance chaser
ambulance chasing
ambulatory plague
ambuling communion
ambush bug
ame damnee
amebic dysentery
amen corner
amende honorable
amende profitable
amende-honorable
amendes honorables
american chameleon
american cheese
american cowslip
american english
american indian
american ivy
american plan
american revised version
american sable
american saddle horse
american standard version
american trotter
americo-
ames-ace
amethyst cutter
amethyst violet
amiable weakness
amicable number
amicus curiae
amicus curiae
amicus humani generis
amicus usque ad aras
amid the blaze of noon
amid-
amide powder
amido-
amido-urea
amidonaphthol red
amin-
amino acid
amino acids
amino azobenzene
amino group
amino nitrogen
amino radical
amino resin
amino-
amino-oxyprin
aminoacetic acid
aminobenzoic acid
aminooquin naphthoate
aminosuccinic acid
ammo dump
ammo-
ammonia alum
ammonia condenser
ammonia gelatin
ammonia liquor
ammonia meter
ammonia nitrogen
ammonia process
ammonia soda
ammonia soda ash
ammonia soda process
ammonia solution
ammonia turpeth
ammonia valve
ammonia water
ammoniac plant
ammoniacal liquor
ammoniaco-
ammonio-
ammonioferric oxalate
ammonium acetate
ammonium alum
ammonium amalgam
ammonium base
ammonium bicarbonate
ammonium bifluoride
ammonium binoxalate
ammonium bromide
ammonium carbamate
ammonium carbonate
ammonium chloride
ammonium chrome alum
ammonium chromic sulfate
ammonium cyanate
ammonium hydrosulphide
ammonium hydroxide
ammonium lactate
ammonium molybdate
ammonium nitrate
ammonium oxalate
ammonium persulphate
ammonium phosphate
ammonium purpurate
ammonium salt
ammonium selenate
ammonium stearate
ammonium sulfate
ammonium sulphate
ammonium sulphide
ammonium thiocyanate
ammonium thiosulfate
ammono acid
ammono base
ammono salt
ammunition box
ammunition bread
ammunition chest
ammunition depot
ammunition hoist
ammunition legs
ammunition scuttle
ammunition ship
ammunition shoes
amnesic aphasia
amnestic aphasia
amniotic fluid
amniotic sac
amobarbital sodium
amoeba disease
amoebbean verse
amoebic dysentery
among other things
among the blest
among the living
among us
amor patriae
amorous dalliance
amorous looks
amorous pursuit
amorpho-
amorphous ergotinine
amorphous phosphorus
amount at risk
amount due
amount limit
amount of money
amount of stock
amount to
amount to something
amygdonitrile glucoside
amyI acetate
amyI alcohol
amyI ether
amyI group
amyI isovalerate
amyI nitrite
amyI oxide
amyI propionate
amyI radical
amyI salicylate
amyI sulfide
amyI-
amyl-acetate lamp
amylacetic ether
amylene hydrate
amyl-
amyloid degeneration
amylum body
amylum center
amylum grain
amylum star
amyotrophic lateral sclerosis
amyris oil
an O without a figure
an arm and a leg
an arrant
an average
an awfully big adventure
an ear for
an eater of broken meats
an echo of the invisible world
an emblem
an epidemic insanity
an error
an eternity
an existence
an eye for
an eye for an eye
an in
an incurable disease
an inhabiting
an instant arrested in eternity
an intelligence served by organs
an itch for the praise of fools
an old dog at
an old hand at
an uncertainty
an unfathomable
an unhappy crossbreed
an universal wolf
an-
an-end
ana-
anabolic steroid
anacardium nut
anaconda gourd
anadama bread
anaerobic bacteria
anaerobic organism
anak kuching
anal canal
anal character
anal fin
anal intercourse
anal sex
anal vein
analcite basalt
analogue computer
analog feedback control
analog process
analog-digital converter
analogous computer
analogy test
analysis of variance
analytic situs
analytic continuation
analytic faculty
analytic geometry
analytic philosopher
analytic philosophy
analytic power
analytic psychology
analytical balance
analytical chemistry
analytical control unit
analytical cubism
analytical cubist
analytical geometry
analytical mechanics
analytical psychology
analytical spectrometer
analytico-architectural
analyze your motives
analyzed rhyme
anamite yeast
anamorphic lens
ananas oil
anaphylactic antibody
anaphylactic shock
anarcho-syndicalism
anarcho-syndicalist
anastomotic operation
anathema maranatha
anatomic diagnosis
anatomic medicine
anatomical pathology
anatomical snuffbox
anatomico-
ance errand
ancestor worship
ancestral halls
ancestral spirits
anchieta bark
anchor ball
anchor bar
anchor bed
anchor bell
anchor bend
anchor bolt
anchor box
anchor buoy
anchor chain
anchor chock
anchor dart
anchor deck
anchor drag
anchor escapement
anchor hold
anchor hoy
anchor ice
anchor knot
anchor lift
anchor light
anchor lining
anchor link
anchor log
anchor man
anchor money
anchor nurse
anchor plant
anchor plate
anchor pocket
anchor ring
anchor rocket
anchor rod
anchor rode
anchor shackle
anchor shot
anchor space
anchor span
anchor tee
anchor watch
anchor watchman
anchor well
anchor-shaped
anchorage ground
anchorite monasticism
anchoritic monasticism
anchors aweigh
anchovy pear
ancien regime
ancien régime
ancienne noblesse
ancient history
ancient language
ancient literature
ancient manuscript
ancient times
ancient wisdom
and Cultural Organization
and God knows what
and Harry
and Holy Ghost
and I don't know what
and Ireland
and Robinson
and Slovenes
and Welfare
and a light unto my path
and a pull all together
and all
and all like that
and all that
and all that sort of thing
and also
and an eminently contagious one
and ancient as the sun
and arithmetic
and barrel
and be merry
and blue
and bobtail
and built by hands divine
and candle
and circuit
and circumstance
and collected
and crack your cheeks
and delivered
and dissolve itself
and everything else
and everywhere
and fish
and flesh of my flesh
and handsome
and happy
and hates them for it
and heaven knows what
and jump
and keep your powder dry
and listen
and making it five
and many more
and more of the same
and night
and no mistake
and not
and nothing but the truth
and of Night
and off the hinges
and other things
and others
and pence
and pine
and portents and evils imminent
and pursue it
and quarter
and quit yourselves like men
and running over
and shaken together
and sinker
and so
and so forth
and so on
and strengt
and stuff like that
and suchlike
and tell them
and the blind
and the fish of the sea
and the following
and the like
and the post
and the pursuit of happiness
and the queen of sleep
and the rest
and the seeing of blind
and the waste of life
and then some
and unprofitable
and weep with them that weep
and what have you
and what not
and-
anda oil
anda-assu
anda-assu oil
andante moderato
andante tempo
andr-
andro-
androgenital syndrome
anem-
anemia lymphatica
anemo-
anemone camphor
anemone fish
anemone-flowered dahlia
aneroid barograph
aneroid barometer
aneroid capsule
anesthetic ether
ang-khak
angel bed
angel cake
angel fish
angel food
angel food cake
angel gold
angel light
angel of death
angel of light
angel of love
angel red
angel shark
angel shot
angel sleeve
angel tree
angel water
angel's footstool
angel's tears
angel's-trumpet
angel-borne
angel-bright
angel-builted
angel-eyed
angel-faced
angel-guarded
angel-heralded
angel-noble
angel-seeming
angel-warned
angelic host
angelica tree
angelica-root
angelin seeds
angels' tears
angels-on-horseback
angi-
angico gum
angina pectoris
angio-
angioneurotic edema
angle away
angle bar
angle bead
angle beam
angle board
angle brace
angle bracket
angle brackets
angle brick
angle bulb
angle capital
angle chair
angle cleat
angle clip
angle collar
angle for
angle gear
angle iron
angle measurement
angle meter
angle of attack
angle of bank
angle of climb
angle of dead rise
angle of deviation
angle of dip
angle of heel
angle of incidence
angle of lag
angle of lead
angle of pitch
angle of polarization
angle of reflection
angle of refraction
angle of repose
angle of roll
angle of sideslip
angle of stabilizer setting
angle of view
angle of vision
angle of wing setting
angle of yaw
angle off
angle plate
angle rafter
angle reflector
angle rib
angle set
angle shaft
angle shear
angle staff
angle steel
angle tie
angle with a silver hook
angle-off
angle-rack tool
angled draft
angled-toothed
angler fish
anglo-
anglo-catholic
anglo-french
anglo-indian
anglo-norman
anglo-saxon
angora cat
angora goat
angora rabbit
angostura bark
angostura bitters
angry clouds
angry look
angry young man
angry young woman
angry-eyed
angry-looking
angstrom unit
angstrom unit Angstrom
angular acceleration
angular data
angular dispersion
angular displacement
angular frequency
angular geometric
angular geometric figures
angular leaf spot
angular magnification
angular momentum
angular momentum quantum number
angular motion
angular perspective
angular velocity
angular-toothed
angular-winged katydid
angulated sail
angulato-
angulo-
anguloso-
angusti-
anhalonium alkaloid
anharmonic ratio
anhydro base
anhydro-
anidian monster
aniline black
aniline blue
aniline dye
aniline hydrochloride
aniline oil
aniline purple
aniline salt
aniline yellow
anima aloes
anima bruta
anima humana
anima mundi
animadvert on
animadvert upon
animal abode
animal and vegetable kingdom
animal black
animal capable of reason
animal carver
animal cell
animal cellulose
animal charcoal
animal charge
animal color
animal comfort
animal cracker
animal culture
animal cunning
animal disease
animal diseases
animal dyestuff
animal electricity
animal enclosure
animal faith
animal fiber
animal flower
animal force
animal handler
animal heat
animal husbandman
animal husbandry
animal hypnosis
animal kingdom
animal life
animal like types
animal magnetism
animal mechanics
animal mound
animal nature
animal noise
animal oat
animal oil
animal oils
animal physiologist
animal physiology
animal pleasure
animal pole
animal psychology
animal raiser
animal raising
animal rearing
animal rouge
aniseed star
aniseed tree
anisic alcohol
anisic aldehyde
aniso-
anisyl acetate
anisyl alcohol
ankle boot
ankle clonus
ankle cutter
ankle jerk
ankle ring
ankle sock
ankle strap
ankle tie
ankle-deep
ankle-jacked
annatto tree
anni mirabiles
annihilation radiation
anno Domini
anno Hejirae
anno aetatis suae
anno domini
anno hegrae
anno mundi
anno regni
anno urbis conditae
annotated bibliography
announce with beat of drum
announced motive
annual bibliography
annual bluegrass
annual epact
annual holiday
annual parallax
annual percentage rate
annual period
annual ring
annual wage
annuit coeptis
annuities certain
annuity bond
annuity certain
annuity gift
annul a marriage
annular clock
annular eclipse
answerable to
answering pennant
answering service
ant acacia
ant bear
ant bird
ant catcher
ant cattle
ant cow
ant egg
ant fly
ant heap
ant hill
ant hillock
ant king
ant lion
ant pipit
ant plant
ant rice
ant shrike
ant thrush
ant tree
ant worm
ant wren
ant-
ant-eater
ant-pipit
ant-thrush
antarctic beech
antarctic circle
antarctic circumpolar current
ante Christum
ante bellum
ante meridiem
ante mortem
ante partum
ante up
ante-
ant-Christum
ante-Nicaean
ante-Nicene
ante-Nicene Fathers
ante-acted
ante-ambulo
ante-bellum
ante-chapel
ante-ecclesiastical
ante-eternity
ante-mortem
 ante-mortem clot
 ante-orbital
 ante-partum
 ante-room
 ante-temple
 antecedent right
 antecedent used in
 antediluvian patriarch
 antelope brush
 antelope chipmunk
 antelope squirrel
 antenna array
 antenna circuit
 antenna filter
 antenna grounding switch
 antenna inductance
 antenna mine
 antenna resistance
 antenna switch
 antenna tower
 antennae sword
 antennal gland
 antennal lobe
 antenuptial contract
 antenuptial settlement
 anterior pituitary
 anterior pituitary luteotropin
 anterior tooth
 antero-
 anterograde amnesia
 anterograde memory
 anth-
 anthelic arcs
 anther cell
 anther lobe
 anther sac
 anther smut
 antho-
 anthra-
 anthracene brown
 anthracene oil
 anthracene yellow
 anthracite black
 anthracite coal
 anthraquinone dye
 anthrax vaccine
 anthrop-
anthropo-
anthropoid ape
anti-
anti-American
anti-Arab
anti-Aristotelian
anti-Aristotelianism
anti-Australian
anti-Austria
anti-Austrian
anti-Bible
anti-Biblical
anti-Biblically
anti-Bolshevik
anti-Bolshevism
anti-Bolshevist
anti-Bolshevistic
anti-British
anti-Calvinism
anti-Calvinist
anti-Calvinistic
anti-Calvinistical
anti-Catholic
anti-Catholicism
anti-Darwin
anti-Darwinian
anti-Darwinism
anti-Darwinist
anti-English
anti-Europe
anti-European
anti-Europeanism
anti-France
anti-French
anti-Freud
anti-Freudian
anti-Freudianism
anti-G suit
anti-German
anti-Germanic
anti-Germanism
anti-Germanization
anti-Greece
anti-Greek
anti-Irish
anti-Italian
anti-Italianism
anti-Japanese
anti-Jesuit
anti-Jesuitic
anti-Jesuitical
anti-Jesuitically
anti-Jesuitism
anti-Jesuitry
anti-Jewish
anti-Judaic
anti-Judaism
anti-Judaist
anti-Judaistic
anti-Latin
anti-Latinism
anti-Malthusian
anti-Malthusianism
anti-Mexican
anti-Negro
anti-Negroes
anti-Negroism
anti-Nordic
anti-Oriental
anti-Orientalism
anti-Orientalist
anti-Plato
anti-Platonic
anti-Platonically
anti-Platonism
anti-Platonist
anti-Polish
anti-Populist
anti-Protestant
anti-Protestantism
anti-Puritan
anti-Puritanism
anti-Roman
anti-Romanist
anti-Russia
anti-Russian
anti-Scandinavia
anti-Scripture
anti-Scripturist
anti-Semite
anti-Semitic
anti-Semitism
anti-Serb
anti-Slav
anti-Slavic
anti-Socrates
anti-Socratic
anti-Soviet
anti-Spain
anti-Spanish
anti-Sweden
anti-Swedish
anti-Teuton
anti-Teutonic
anti-Trinitarian
anti-Trinitarianism
anti-Turkish
anti-Zionism
anti-Zionist
anti-acid
anti-aircraft
anti-attrition
anti-birmingham
anti-christian
anti-depressant
anti-emitic
anti-ethmc
anti-federalist
anti-gallic
anti-gallican
anti-gallican hitch
anti-gallicanism
anti-god
anti-guggler
anti-hero
anti-heroic
anti-hog-cholera
anti-icer
anti-icteric
anti-idealism
anti-idealist
anti-idealistic
anti-idealistically
anti-idolatrous
anti-immigration
anti-immigrationist
anti-immune
anti-imperialism
anti-imperialist
anti-imperialistic
anti-incrustator
anti-indemnity
anti-induction
anti-inductive
antiblastic immunity
antic wit
anticipate a blessed event
anticipating a blessed event
anticrepuscular arch
antidote cocoon
antidote lily
antidrag wire
antifouling paint
antifriction bearing
antifriction curve
antifriction metal
antifriction wheels
antigen treatment
antigen-antibody product
antilift wire
antimine rocket
antimissile missile
antimonious acid
antimonioso-
antimonous hydride
antimony blende
antimony bloom
antimony chloride
antimony cinnabar
antimony crocus
antimony crude
antimony glance
antimony glass
antimony hydride
antimony ocher
antimony orange
antimony oxide
antimony oxychloride
antimony pentachloride
antimony pentasulfide
antimony pentasulphide
antimony pentoxide
antimony potassium tartrate
antimony red
antimony regulus
antimony rubber
antimony saffron
antimony salt
antimony sulfate
antimony sulfide
antimony sulphide
antimony tetroxide
antimony trichloride
antimony trifluoride
antimony trioxide
antimony trisulfide
antimony trisulphide
antimony vermilion
antimony white
antimony yellow
antimonyl potassium tartrate
antinoise microphone
antiophthalmic factor
antiophthalmic vitamin
antipernicious anemia factor
antipersonnel bomb
antipersonnel mine
antiphonal chanting
antiphonal singing
antipodal points
antiquated expression
antiquated person
antiquated word
antique brass
antique bronze
antique brown
antique cloth
antique collector
antique crown
antique dealer
antique drab
antique glass
antique gold
antique green
antique plane
antique red
antique store
antique-car collector
antiradar rocket
antiseptic surgery
antisocial attitudes
antisocial personality
antisocial sentiments
antisterility factor
antisubmarine bomb
antisubmarine mortar
antisubmarine patrol
antisubmarine plane
antisubmarine projector
antisubmarine radar
antisymmetrical tensor
antitank gun
antitank mine
antitank rifle
antitank rocket
antitorque rotor
antitoxic globulin
antitoxic serum
antitwilight arch
antixerophthalmic vitamin
antler moth
antlion fly
ants in your pants
antsy-pantsy
anvil block
anvil chisel
anvil cloud
anvil cupper
anvil cutter
anvil dross
anvil forger
anvil maker
anvil top
anvil vise
anvil-drilling
anvil-faced
anvil-facing
anvil-headed
anxiety equivalent
anxiety hysteria
anxiety neurosis
anxiety reaction
anxiety state
anxious bench
anxious concern
anxious for
anxious seat
anxioused up
any Tom
any color
any day
any he
any hour
any minute
any moment
any more
any old way
any one
appeal motion
appeal to
appeal to a higher court
appeal to arms
appeal to the country
appeal to the law
appeal to the sword
appeal to you for
appeal to your better feelings
appear for
appear in print
appear like
appear on the horizon
appear on the scene
appear on the stage
appear to be
appear to your eyes
appear unexpectedly
appearance money
appearances are in favor of
appellate court
appellate division
appellate jurisdiction
appendico-enterostomy
appendicular skeleton
appendix vermiformis
apperception mass
apperception test
appertain to
appetizing store
appian way
applaud to the very echo
apple anthracnose
apple aphid
apple banana
apple bee
apple blight
apple blossom
apple blotch
apple box
apple brandy
apple bucculatrix
apple butter
apple canker
apple cheese
apple curculio
apple dumpling
apple essence
apple family
apple fly
apple fritter
apple geranium
apple grain aphid
apple green
apple grunt
apple gum
apple haw
apple juice
apple knocker
apple leaf
apple maggot
apple mildew
apple mint
apple moss
apple moth
apple of discord
apple of your eye
apple oil
apple pandowdy
apple pie
apple polisher
apple pox
apple psylla
apple rosette
apple rust
apple sauce
apple scab
apple scald
apple scale
apple shell
apple slump
apple snail
apple sucker
apple tart
apple toddy
apple tree
apple tree borer
apple turnover
apple weevil
apple wine
apple worm
apple-checked
apple-eating
apple-faced
apple-fallow
apple-john
apple-pie
apple-pie bed
apple-pie order
apple-polish
apple-polisher
apple-polishing
apple-scented
apple-shaped
apple-stealing
apple-twig
apple-twig beetle
apple-twig borer
applejack brandy
apples and pears
appleton layer
appletree borer
applicate number
application for retrial
application lace
applied chemistry
applied kinematics
applied linguistics
applied mathematics
applied mechanics
applied physics
applied psychology
applied science
applied tactics
applique lace
apply for
apply margin
apply paint
apply pressure
apply reason
apply the attention to
apply the match to
apply the mind
apply the mind to
apply the torch to
apply the yardstick to
apply to
apply yourself
apply yourself to
applying color
appoint yourself
appointed lot
appointment calendar
appointment schedule
apportionment bill
aposition beach
appositive genitive
appraisal clause
appreciate differences
appreciation bond
appreciation of differences
appreciation of excellence
appreciative of
apprentice printer
apprentice seaman
apprentice teacher
apprentice work
apprentice yourself to
apprised of
approach anchorage
approach leg
approach light
approach of time
approach path
approach shot
approach trench
appropriate for
appropriate to
appropriation bill
approval book
approval sheet
approve of
approved school
apricot brandy
apricot palm
apricot plum
apricot scale
apricot sour
apricot vine
apricot wine
apricot yellow
apricot-kernal
april fool
april fools’ day
apron conveyer
apron lining
apron man
apron piece
apron plate
apron roll
apron shield
apron stage
arachnoid membrane
arba kanfoth
arbiter elegantiae
arbiter elegantiarum
arbiter of fashion
arbiter of taste
arbitrament of the sword
arbitrated par
arbitration bar
arbitration treaty
arbor day
arbor press
arbor shaft
arbor vine
arbor vitae
arborization block
arborvitae leaf miner
arc column
arc cosecant
arc cosine
arc cotangent
arc discharge
arc flame
arc furnace
arc generator
arc lamp
arc light
arc lighting
arc pitch
arc process
arc secant
arc sine
arc spectrum
arc tangent
arc transmitter
arc weld
arc welder
arc welding
arc-back
arc-boutant
arc-jet engine
arc-over
arc-shaped
arcane meaning
arcanum arcanorum
arch aurora
arch bar
arch barrel
arch beam
arch board
arch brace
arch brick
arch bridge
arch buttress
arch dam
arch head
arch order
arch over
arch press
arch ring
arch solid
arch spring
arch stone
arch support
arch-
arch-brahman
arch-butler
arch-buttress
arch-chanter
arch-christendom
arch-christianity
arch-enemy
arch-fiend
arch-flamen
arch-foe
arch-gravity dam
arch-heretic
arch-poet
arch-prefate
arch-presbyter
arch-protestant
arch-sea
arch-traitor
arch-villain
arch-whig
archae-
archaeo-
archaic smile
archaic white race
arched roof
arched truss
archepiscopal cross
archery ground
arches-court
archetypal idea
archetypal image
archetypal myth
archetypal pattern
archetypal symbol
archetypal world
archi-
archiepiscopal cross
archil extract
archil liquor
archimedes’ screw
archippus butterfly
architect’s table
architectural bronze
architectural capitals
architectural draftsman
architectural engineer
architectural ornamentation
architectural ornamentations
architectural sculpture
architectural topping
architectural toppings
architecture styles
arcing contact
arcing jaws
arcs-boutants
arctic char
arctic circle
arctic fox
arctic rescue helicopter
arctic sea smoke
arctic seal
arctic smoke
arctic tern
arctic timothy
arctico-alaic
arcus senilis
arcwise connected set
ardent friend
ardent friendship
ardent imagination
ardent spirits
ardor urinae
area bombing
area code
area gate
area graph
area measure
area measures
area opaca
area pellucida
area rule
area sneak
area study
area vasculosa
area vector
area vitellina
area wall
area-moment method
areal linguistics
areca catechu
areca nut
areca palm
arena theater
arena theatre
arenaceo-
arenoso-
areo-
areolate mildew
argan oil
argan tree
argemone oil
argent-vive
argentella lace
argentine thistle
argento-
argento-cuprous sulfide
argillaceo-
argillo-
arginine phosphagen
argle-bargie
argle-bargle
argon lamp
argon potassium dating
argue at the bar
argue down
argue for
argue insincerely
argue into
argue to no purpose
argue your case
argue-bargue
argument by analogy
argument from design
argument principle
argumentMaths
arguments at the bar
argumentum a fortiori
argumentum ad baculum
argumentum ad captandum
argumentum ad captandum vulgus
argumentum ad hominem
argumentum ad rem
argumentum baculinum
argus brown
argus pheasant
argus shell
argus tortoise beetle
argus-eyed
argy-bargied
argy-bargies
argy-bargy
argy-bargying
argyr-
arh-
aria buffa
aria cantabile
aria d'agilita
aria d'imitazione
aria da capo
aria da chiesa
aria di bravura
aria di coloratura
aria fugata
aria parlante
aria singer
arias da capo
arid region
ariel gazelle
ariel petrel
ariel toucan
arise and go to
arise from
arising from
aristo-
aristocratic disdain
aristocratic presumption
arithmetic mean
arithmetic progression
arithmetic series
arithmetical progression
arithmetical proportion
arithmetico-geometric
arithmetico-geometrical
arithmo-
arjun wax
army reserves
army service corps
army troops
army worm
arnica bud
aroind thee
aromatic compound
aromatic gum
aromatic spirits of ammonia
aromatic water
aromatized wine
around the bush
around the clock
around-the-clock
arouse notice
arouse the memory
arouse your enthusiasm
arouse your passion
arrange a match
arrange evidence
arrange for
arrange in layers
arrange in levels
arrange in strata
arrange in tiers
arrange itself
arrange matters
arrange your ideas
arrange your thoughts
arrant coward
arras-wise
arrear-guard
arrear-ward
arrest attention
arrest of judgment
arrest the thoughts
arrest your notice
arrested development
arresting gear
arrester hook
arriere fee
arriere tenant
arriere vassal
arriere-ban
arriere-pensee
arris fillet
arris gutter
arris piece
arris rail
arrive at
arrive at a conclusion
arrive at an agreement
arrive in
arrive upon
arrogate to yourself
arrow aimed at your heart
arrow arum
arrow cane
arrow for
arrow grass
arrow horn
arrow maker
arrow making
arrow mehl
arrow release
arrow rest
arrow shot
arrow snake
arrow stave
arrow straightener
arrow-back
arrow-back chair
arrow-bearing
arrow-grass
arrow-grass family
arrow-head
arrow-leaved
arrow-root
arrow-shaped
arrow-slain
arrow-smitten
arrow-toothed
arrow-wood
arrow-wounded
arrowroot family
arroyo grape
arroyo willow
arroz con pollo
ars est celare artem
ars gratia artis
ars longa vita brevis
ars nova
ars poetica
ARSE licker
arsen-
arsenic acid
art design
art director
art editor
art equipment
art exhibition
art expression
art film
art form
art gallery
art glass
art gray
art green
art guild
art league
art lining
art manual
art museum
art music
art nouveau
art object
art of public speaking
art of reason
art of war
art paper
art period
art school
art schools
art shade
art song
art square
art student
art styles
art supervisor
art teacher
art theater
art union
art work
art-colored
art-conscious
art-like
art-minded
artemisia green
arteri-
arterial aneurism
arterial blood
arterial highway
arterial street
arterial transfusion
arterial varix
arterio-
arteriosclerotic psychosis
artery forceps
artesian borer
artesian well
artful dodge
artful endearments
arthr-
arthritis deformans
arthritis fungosa
arthritis pauperum
arthro-
artichoke bottom
artichoke green
article of commerce
article of faith
article of merchandise
article of virtu
article writer
articled clerk
articles of association
articles of faith
articles of religion
articulated locomotive
articulated lorry
articulatory phonetics
artificer branch
artificial aids
artificial antenna
artificial blond
artificial dye
artificial feedback kidney
artificial feel
artificial fiber
artificial heart
artificial horizon
artificial immunity
artificial insemination
artificial intelligence
artificial isotope
artificial kidney
artificial lake
artificial language
artificial languages
artificial leech
artificial magnet
artificial nucleation
artificial pacemaker
artificial person
artificial radioactivity
artificial respiration
artificial satellite
artificial satellites
artificial selection
artificial sweetener
artificial turf
artificial voice
artillery hub
artillery park
artillery plant
artillery train
artillery wagon
artillery wheel
artisan work
artist lithography
artist's model
artist's proof
artist-in-residence
artiste-peintre
artistic administrator
artistic director
artistic flair
artistic imagination
artistic invention
artistic judgment
artistic production
artistic quality
artistic school
artistic skill
artistic style
artistic taste
artistic temperament
artists' canvas
arts and crafts
arts college
arts of design
arts-man
arts-master
artsy-craftsiness
artsy-craftsy
arty-craftiness
arty-crafty
arum family
arum lily
aryl group
aryl radical
aryteno-
aryteno-epiglottic
arytenoid cartilages
as I live and breathe
as a body
as a bonus
as a case in point
as a consequence
as a cover
as a cover-up
as a gift
as a guess
as a joke
as a matter of course
as a matter of fact
as a matter of form
as a pretext
as a profession
as a replacement for
as a result
as a result of
as a rough guess
as a rule
as a substitute for
as a vocation
as a whole
as agreed upon
as all creation
as all get-out
as an alibi
as an alternative
as an alternative to
as an approximation
as an example
as an excuse
as an instance
as attested by
as bad as bad can be
as bad as they come
as bad as they make 'em
as best as you can
as big as life
as boundless as the sea
as broad as long
as can be
as chaste as Diana
as chaste as unsunn'd snow
as clear as day
as close as a vise
as cold as any stone
as compared with
as compensation
as contracted for
as destiny wills
as earnest
as every schoolboy knows
as expected
as far as
as far as I am concerned
as far as possible
as far as the eye can see
as far as you can see
as far as you can tell
as far as you desire
as far as you know
as fate wills
as firm as a stone
as fit as a fiddle
as for
as full as a tick
as good as
as good as good can be
as good as they come
as good as they make 'em
as good as your word
as hard as nails
as here defined
as here interpreted
as how
as if
as ill luck would have it
as in duty bound
as is
as is fitting
as is just
as is only fair
as is only right
as is proper
as is right
as is the custom
as is usual
as is your due
as is your right
as is your wont
as it chanced
as it has been said
as it is
as it is said
as it may be
as it may chance
as it may happen
as it may turn out
as it may turn up
as it ought to be
as it pleases yourself
as it seems
as it seems best
as it seems good
as it should be
as it suits yourself
as it was said of old
as it were
as large as life
as lief
as lief as not
as lies in your power
as like as can be
as like as eggs
as like as two peas in a pod
as lissome as a hazel wand
as little as may be
as long as
as long as your arm
as luck wills
as luck would have it
as matters stand
as may be
as may be expected
as merry as the day is long
as much again
as much as
as much as in one lies
as much as lieth in you
as much as to say
as near as makes no difference
as near as no matter
as new
as no one would have predicted
as of
as of a chapter
as of now
as often as can be
as often as not
as often as you like
as often as you wish
as one
as one goes
as one man
as ordered
as our guest
as per usual
as plain as a pikestaff
as plain as plain can be
as promised
as proud as Punch
as proxy for
as red
as regards
as representing
as required
as respects
as safe as houses
as seen
as soon
as soon as
as such
as sure as I live and breathe
as the case may be
as the crow flies
as the day is long
as the fellow says
as the matter stands
as the saying goes
as the saying is
as the sparks fly upward
as the story goes
as the story runs
as the tree falls
as the world goes
as they say
as things are
as things go
as things may fall
as things turn out
as things worked out
as thou wilt
as though
as tightfisted as a kulak
as times go
as to
as transient as the clouds
as usual
as well
as well as
as well as can be said
as who should say
as wide asunder as pole and pole
as yet
as you may have suspected
as you might suppose
as you might think
as you please
as you say
as you sees it
as you think best
as you will
as you wish
as-
as a dulcis
asafetida oil
asarum camphor
asarum oil
asbestos blanket
asbestos board
asbestos braid
asbestos carder
asbestos cement
asbestos cloth
asbestos covering
asbestos crusher
asbestos curtain
asbestos doubler
asbestos felt
asbestos fiber
asbestos filter
asbestos flooring
asbestos lagging
asbestos lining
asbestos listing
asbestos lumber
asbestos paper
asbestos porcelain
asbestos rock
asbestos tile
asbestos toaster
asbestos weaver
asbestos wood
asbestos-coated
asbestos-corrugated
asbestos-covered
asbestos-packed
asbestos-protected
asbestos-welded
asc-
ascend the throne
ascending aorta
ascending colon
ascending node
ascension day
ascetical theology
asclepias butterfly
asco-
ascorbic acid
ascot tan
ascot tie
ascribe importance to
ascribe to
ascus fruit
aseptic surgery
asexual generation
asexual reproduction
ash barrel
ash bin
ash blond
ash bread
ash bud
ash cake
ash can
ash canker
ash cart
ash chute
ash collector
ash color
ash cone
ash furnace
ash gray
ash heap
ash hopper
ash key
ash leaf
ash oven
ash pile
ash pole
ash pone
ash pumpkin
ash rock
ash spear
ash staff
ash tray
ash tree
ash wednesday
ash wood
ash-bellied
ash-blonde
ash-blue
ash-colored
ash-free
ash-gray
ash-gray blister beetle
ash-leaved
ash-leaved maple
ash-looking
ash-staved
ash-throated
ash-wednesday
ash-white
ashamed of yourself
ashen-hued
ashes in the mouth
ashes to ashes and dust to dust
ashlar brick
ashlar line
ashlar veneer
asian influenza
asiatic cholera
aside from
aside from de
ask a question
ask about
ask after
ask and give no quarter
ask bids for
ask for
ask for it
ask for pity
ask for your hand
ask forgiveness
ask in exchange
ask leave of no man
ask no favors
ask no quarter
ask offers for
ask questions
ask the impossible
asked price
asking bid
asking price
asleep at the switch
asleep in Jesus
asleep in the Lord
asleep on the job
asleep on your feet
asp viper
asparagic acid
asparaginic acid
asparagus bean
asparagus beetle
asparagus broccoli
asparagus fern
asparagus lettuce
asparagus pea
asparagus stone
aspartic acid
aspect ratio
aspen poplar
asphalt cement
asphalt grout
asphalt jungle
asphalt macadam
asphalt mastic
asphalt oil
asphalt paint
asphalt paper
asphalt rock
asphalt tile
asphalt-base
asphalt-base oil
asphodel green
asphyxia neonatorum
asphyxiating gas
aspirating stroke
aspiration pneumonia
aspire after
aspire to
ass between two bundles of hay
ass in lion's skin
ass over elbows
ass parsley
ass-backwards
ass-chewing
ass-ear
ass-head
ass-headed
ass-kisser
ass-kissing
ass-licker
ass-licking
ass-reaming
ass-ship
assai palm
assail the ear
assail the nostrils
assassin bug
assault and battery
assault and robbery
assault boat
assault line
assault sexually
assault the ear
assault transport
assault-troop plane
assay balance
assay bar
assay beam
assay crucible
assay cup
assay flask
assay foot
assay furnace
assay groove
assay mill
assay office
assay oven
assay pound
assay ton
assay-office bar
assembling mark
assembly conveyer
assembly district
assembly hall
assembly language
assembly line
assembly plant
assembly room
assembly routine
assembly-line housing
assembly-line production
assent grudgingly
assent to
assent under protest
assented bond
assert a claim to
assert a right to
assert a title to
assert the contrary
assert under oath
assert yourself
assertiveness training
asses' bridge
assess a tax upon
assessable stock
assessed valuation
assessment company
assessment insurance
assessment on default
assessment work
asset currency
asset-stripping
assets and liabilities
assign lessons
assign to
assign to a place
assignation house
assigned counsel
assigned risk
assigned task
assigned to
assignment of cause
assimilate to
assimilate with
assistant agent
assistant auditor
assistant barber
assistant bookkeeper
assistant cashier
assistant chemist
assistant chief
assistant clerk
assistant deputy
assistant director
assistant driver
assistant druggist
assistant editor
assistant engineer
assistant examiner
assistant foreman
assistant guard
assistant housekeeper
at a blow
at a clip
at a declining rate
at a disadvantage
at a discount
at a distance
at a first approximation
at a funeral pace
at a glance
at a good clip
at a great rate
at a halt
at a high price
at a later time
at a loose end
at a loss
at a low ebb
at a low price
at a nonplus
at a premium
at a price
at a profit
at a reduction
at a sacrifice
at a slant
at a snail's pace
at a stand
at a standstill
at a stretch
at a stroke
at a subsequent time
at a tangent
at a turtle's pace
at a venture
at a word
at about
at all
at all accounts
at all costs
at all events
at all hazards
at all points
at all risks
at all times
at an advanced age
at an angle
at an end
at an impasse
at anchor
at another time
at any cost
at any price
at any rate
at any sacrifice
at any straw
at any time
at arm's length
at attention
at auction
at bar
at bat
at bay
at bayonet point
at best
at bottom
at budget prices
at choice
at close hand
at close quarters
at cockcrow
at concert pitch
at cost
at cost price
at cross-purposes
at cross-purposes with
at daggers
at daggers drawn
at dawn
at dawn of day
at death's door
at demand
at discretion
at each other's throat
at ease
at ease and lighthearted
at enmity
at established periods
at every turn
at fault
at feud
at fever pitch
at first
at first blush
at first hand
at first light
at first sight
at first view
at fixed periods
at flank speed
at flood
at full
at full blast
at full drive
at full length
at full pelt
at full speed
at full throttle
at gaze
at grade
at great cost
at great expense
at grips
at gunpoint
at hack
at half cock
at hand
at haphazard
at haven
at hazard
at heart
at heavy cost
at heel
at home
at home in
at home with
at infrequent intervals
at intervals
at irregular intervals
at issue
at it
at just the wrong time
at large
at last
at law
at least
at leisure
at length
at liberty
at loggerheads
at long last
at loose ends
at mid-day
at most
at next hand
at night
at no
at no great distance
at no hand
at no time
at noon
at odd times
at odds
at odds with
at once
at once and on the spot
at one
at one and the same time
at one blow
at one fell swoop
at one jump
at one stroke
at one swoop
at one time
at one with
at opposite extremes
at outcry
at outs
at par
at peace
at piggy-bank prices
at pleasure
at present
at prime cost
at public auction
at public outcry
at random
at reduced rates
at regular intervals
at rest
at right angles
at rock bottom
at sea
at second hand
at short notice
at sight
at sixes and sevens
at small cost
at some other time
at square
at stake
at stated times
at straws
at strife
at sunrise
at swords' points
at that
at that instant
at that moment
at that rate
at that time
at the bar
at the base of
at the beck and call of
at the bottom
at the bottom of
at the bottom of the heap
at the bottom of the scale
at the bound
at the breast
at the bursting point
at the conclusion
at the core
at the crack of dawn
at the dip
at the double
at the drop of a handkerchief
at the drop of a hat
at the eleventh hour
at the end
at the end of your rope
at the end of your tether
at the expense of
at the feet of
at the first blush
at the first go-off
at the first opportunity
at the foot of
at the gun
at the hand
at the hand of
at the hands of
at the head
at the heart of
at the height
at the helm
at the instance of
at the last
at the last extremity
at the last gasp
at the last minute
at the latest
at the least
at the limit
at the mercy of
at the most
at the nadir
at the option of
at the outside
at the peak
at the periphery
at the pinnacle
at the pitch of your breath
at the point of
at the point of a gun
at the point of death
at the point of the bayonet
at the point of the gun
at the point of the sword
at the portals of death
at the present time
at the reins
at the same instant
at the same moment that
at the same time
at the same time as
at the same time that
at the start
at the summit
at the threshold
at the threshold of
at the time of
at the time that
at the top
at the top of the ladder
at the top of the tree
at the top of your bent
at the top of your lungs
at the top of your voice
at the wheel
at the word of command
at the zenith
at this instant
at this juncture
at this moment
at this point
at this time
at this time of day
at times
at twelve-o'clock sharp
at variance
at variance with
at variance with the facts
at various times
at war
at war 'twixt will and will not
at war with
at what price
at what time
at whatever time
at which
at which instant
at which moment
at which time
at wholesale
at will
at work
at worst
at wt
at your beck and call
at your best
at your bidding
at your call
at your command
at your convenience
at your discretion
at your disposal
at your door
at your ease
at your elbow
at your feet
at your fingertips
at your heels
at your last gasp
at your leisure
at your mercy
at your nod
at your orders
at your own discretion
at your own sweet time
at your own sweet will
at your pleasure
at your service
at your side
at your will
at your will and pleasure
at your wit's end
at your wits' end
at-
at-home
at-homeish
at-homeishness
at-homeness
at-large
atamasco lily
ate-
atef crown
atef-crown
atelets sauce
atelo-
ater-
athanasian creed
athel tree
athlete's foot
athlete's heart
athletic coach
athletic equipment
athletic field
athletic heart
athletic socks
athletic support
athletic supporter
athwart the hawse
atka mackerel
atlantic time
atlanto-
atlas folio
atlee gall
atlo-
atlo-odontoid
atloido-occipital
atmo-
atmospheric attenuation
atmospheric boundary layer
atmospheric braking
atmospheric condition
atmospheric electricity
atmospheric engine
atmospheric layer
atmospheric perspective
atmospheric pressure
atmospheric tides
atmospheric visibility
atom blast
atom bomb
atom counter
atom gun
atom model
atom smasher
atom soul
atom war
atom-bomb
atom-chipping
atom-rocket
atom-smashing
atom-tagger
atom-tagging
atom-tracing spectrometer
atomic accelerator
atomic age
atomic arsenal
atomic attack
atomic battery
atomic beam
atomic bomb
atomic cannon
atomic chemistry
atomic clock
atomic cluster
atomic cocktail
atomic constants
atomic decay
atomic disintegration
atomic energy
atomic energy plant
atomic engine
atomic explosion
atomic furnace
atomic gun
atomic heat
atomic hydrogen torch
atomic hydrogen welding
atomic hypothesis
atomic mass
atomic mass unit
atomic model
atomic nucleus
atomic number
atomic particle
atomic particles
atomic pile
atomic power
atomic power plant
atomic project
atomic radiation
atomic ray
atomic reaction
atomic research
atomic science
atomic scientist
atomic structure
atomic submarine
atomic theory
atomic units
atomic units and constants
atomic volume
atomic war
atomic warfare
atomic warhead
atomic weapons
atomic weight
atomic-powered submarine
atone for
atrial fibrillation
atrioventricular block
atrioventricular bundle
atrioventricular node
atro-
atrocious pain
atrocity story
atrophic arthritis
atrophic inflammation
attacca subito
attach a condition
attach a proviso
attach importance to
attach little importance to
attach some weight to
attach to
attach too much importance to
attach yourself to
attach case
attached to
attachment disk
attachment plug
attack bomber
attack in force
attack like lightning
attack of illness
attack of nerves
attack plane
attack squadron
attack time
attack transport
attain fulfillment
attain majority
attain mastery of
attain to
attain your objective
attar of roses
attempt the impossible
attempt to
attend Communion
attend Mass
attend classes
attend closely to
attend on
attend rites
attend school
attend to
attend to business
attend to orders
attend to your work
attend upon
attendance allowance
attendance centre
attendance officer
attendant godling
attendant spirit
attended by
attended with danger
attending physician
attention signal
attention span
attention to detail
attention to fact
attention-getting
attenuation charge
attested copy
attic order
attic room
attic story
attitude art
attitude-control rocket
atto-
attorney general
attorney generals
attorney in fact
attorney-at-law
auction off
auction pinochle
auction pitch
auction pool
auction room
auction sale
aucuba green
aucuba mosaic
audibility meter
audience chamber
audience court
audience room
audience success
audience-proof
audio amplifier
audio channel
audio detector
audio devices
audio distortion
audio frequency
audio monitor
audio signal
audio sound system
audio transmitter
audio truck
audio-
audio-IF oscillator
audio-frequency
audio-frequency amplification
audio-frequency amplifier
audio-frequency circuit
audio-frequency detector
audio-frequency oscillator
audio-frequency tube
audio-visual
audio-visual aids
audio-visually
audit ale
audit book
audit certificate
audit date
audit house
audit office
audit room
auditor-general
auditors-general
auditory amnesia
auditory aphasia
auntie man
aur-
aural examination
aural sense
aurea mediocritas
aurene glass
auréolin yellow
auri-iodide
auricula purple
auricular appendage
auricular confession
auricular fibrillation
auriculo-infraorbital
auriculo-occipital
aur-
aurora australis
aurora borealis
aurora glory
aurora orange
aurora particle
aurora particle counter
aurora particles
aurora polaris
aurora sauce
aurora trout
aurora yellow
auspicium melioris aevi
aussage test
austenitic stainless steel
austerity program
aust-
australia day
australian ballot
australian terrier
aut Caesar
aut nihil
aut-
auteur theory
authentic cadence
authentic mode
author catalog
author catalogue
author mark
author number
author's alteration
author's copy
author's proof
author-created
autogenous vaccine
autographic recorder
autoignition point
autokinetic effect
autokinetic illusion
autokinetic phenomenon
autolysate-precipitate
automated system
automated factory
automated satellite
automatic analyzer
automatic analyzers
automatic block signal
automatic boost control
automatic choke
automatic control
automatic control engineering
automatic control system
automatic data processing
automatic detector
automatic detectors
automatic device
automatic devices
automatic dishwasher
automatic drill
automatic drive
automatic electronic navigation
automatic electronics
automatic engineering
automatic exchange
automatic factory
automatic feed mechanism
automatic frequency control
automatic gain control
automatic guidance
automatic gun
automatic gun director
automatic heater
automatic indicating scale
automatic indicator
automatic indicators
automatic iron
automatic laundry
automatic machine
automatic piano
automatic pilot
automatic pinspotter
automatic pistol
autoxidation-reduction
autre chose
autre vie
autres temps autres murs
autumn bellflower
autumn blond
autumn catchfly
autumn crocus
autumn green
autumn leaf
autumn mange
autumn oak
autumn of your days
autumn snowflake
autumn squill
autumn violet
autumn willow
autumn-brown
autumn-spring
autummal equinox
autummal point
aux abois
aux aguets
aux armes
aux fines herbes
auxiliary boat
auxiliary equation
auxiliary language
auxiliary note
auxiliary power unit
auxiliary rafter
auxiliary tone
auxiliary verb
av-
avail nothing
avail yourself of
available funds
available gain
available light
available means
available resources
avalanche conduction
avalanche lily
avalanche wind
avant-
avant-courier
avant-garde
avant-garde jazz
avocado fat
avocado green
avocado oil
avocado pear
avocado weevil
avoid both Scylla and Charybdis
avoid excess
avoid extremes
avoid the limelight
avoid your gaze
avoidance mechanism
avoidance play
avoidance reaction
avoiding reaction
avoirdupois pound
avoirdupois weight
avowed Communist
aw- 
awake a doubt
awake a suspicion
awake the dead
awake the echoes
awake to
awake to life immortal
awaken the memory
awaken the mind
awaken the thoughts
awaken to
award wage
award winner
aware of
away back
away from
away from home
away from the point
away off
away with you
away-going
away-going crop
awe-awakening
awe-band
awe-bound
awe-commanding
awe-compelling
awe-filled
awe-inspired
awe-inspiring
awe-inspiringly
awe-stricken
awe-strike
awe-struck
awful silence
awful-eyed
awful-gleaming
awful-looking
awful-voiced
awkward age
awkward person
awkward squad
awl bird
awl-fruited
awl-leaved
awl-shaped
awn grass
awned wheat grass
awning cloth
awning deck
awning window
awnless brome grass
ax eye
ax grinder
ax handle
ax helve
ax maker
ax sheath
ax wedge
ax, the
ax-adz
ax-shaped
axe-breaker
axial flow compressor
axial motion
axial pencil
axial skeleton
axial-flow
axial-flow turbine
axial-flow turbojet
axial-flow unit
axial-type engine
axiological ethics
axiom of choice
axiom of countability
axis cylinder
axis cylinder process
axis deer
axis of abscissas
axis of ordinates
axis of revolution
axis of symmetry
axle adjuster
axle arm
axle assembler
axle bar
axle bearing
axle bender
axle bolt
axle box
axle bush
axle cap
axle case
axle centerer
axle cutter
axle dresser
axle ender
axle filer
axle finisher
axle forger
axle grease
axle grinder
axle guard
axle guide
axle hammer
axle hammerman
axle hardener
axle hook
axle journal
axle lagger
axle lathe
axle load
axle oiler
axle packer
axle pin
axle pinner
axle press
axle rougher
axle saddle
axle seat
axle setter
axle shaft
axle sleeve
axle slotter
axle spindle
axle stool
axle straightener
axle tooth
axle turner
axle wad
axle worker
axle-bending
axle-boring
axle-centering
axle-forging
axle-tooth
axle-tree
axletree arm
axonometric projection
ay-
ay-green
aye-aye
aye-ceaseless
aye-during
aye-dwelling
aye-lasting
aye-living
aye-remaining
aye-renewed
aye-restless
aye-rolling
aye-running
aye-sought
aye-troubled
aye-turning
aye-varied
aye-welcome
ayenbite of inwit
ayer-ayer
ayr stone
ayurvedic medicine
az-
aza-
azido group
azido radical
azimuth bar
azimuth circle
azimuth co-ordinate
azimuth compass
azimuth dial
azimuth distance
azimuth error
azimuthal equidistant projection
azimuthal projection
azimuthal quantum number
azine dye
azo blue
azo dye
azo group
azo radical
azo-
azo-orange
azo-orchil
azo-orseilline
azoic dye
azomethine group
azon bomb
azonal soil
azonium base
azonium salt
azoxy group
azure-blazoned
azure-blue
azure-canopied
azure-circled
azure-colored
azure-domed
azure-eyed
azure-footed
azure-inlaid
azure-mantled
azure-penciled
azure-plumed
azure-tinted
azure-vaulted
azure-veined
azurite blue
azygo-
b Physics
b and b
b battery
b complex
b-horizon
b/d Book-keeping
baal kore
baal marriage
baba au rhum
baba-koto
babas au rhum
babassu oil
babbit-metal
babbitt metal
babbitting jig
babcock test
babe in the wood
babe in the woods
babe-faced
babies'-breath
baby act
baby beef
baby bird
baby blue
baby blue-eyes
baby blues
baby bond
baby bonus
baby boom
baby buggy
baby bunting
baby carriage
baby clothes
baby eyes
baby face
baby farm
baby farmer
baby farming
baby fern
baby grand
baby grand piano
baby heathberry
baby jib topsail
baby kisser
baby lace
baby linen
baby orchid
baby pin
baby pink
baby primrose
baby rambler
baby ribbon
baby seal
baby sitter
baby snatcher
baby split
baby spot
baby spotlight
baby step
baby talk
baby tears
baby threader
baby tooth
back bench
back bender
back block
back boiler
back bond
back center
back check
back choir
back clearance
back cloth
back comb
back country
back crawl
back current
back debts
back dive
back door
back down
back draft
back eccentric
back electromotive force
back end
back entry
back fat
back file
back fillet
back focus
back formation
back four
back full
back gear
back green
back hair
back head
back home
back judge
back letter
back line
back liner
back lining
back link
back list
back lot
back maker
back marker
back matter
back molding
back number
back o' Bourke
back o' beyond
back of
back of beyond
back off
back one-third
back order
back out
back out of
back overman
back pack
back page
back painting
back passage
back paternoster
back payments
back pitch
back plastering
back play
back pressure
back projection
back rest
back road
back rod
back room
back run
back sail
back saw
back scatter
back scene
back score
back scratcher
back scratching
back seat
back shaft
back shop
back shutter
back side
back sinew
back slang
back staff
back stairs
back step
back stop
back straight
back strapper
back stream
back street
back stretch
back swath
back swimmer
back talk
back tendon
back the wrong horse
back to back
back track
back trail
back turn
back two-thirds
back up
back vent
back venting
back water
back way
back when
back yard
back-
back-acting
back-acting steam engine
back-action steam engine
back-alley
back-and-forth
back-angle
back-bencher
back-berend
back-biting
back-blocker
back-blowing
back-board
back-breaking
back-breathing
back-broken
back-burner
back-check
back-cloth
back-cloths
back-coming
back-connected
back-connected switch
back-country
back-door
back-drawing
back-drawn
back-end
back-face
back-facing
back-set bed
back-settler
back-sey
back-slang
back-slapping
back-spiker
back-staff
back-starting
back-stepping
back-stitch
back-stope
back-strapped
back-streeter
back-stroke
back-surging
back-sword
back-talk
back-tan
back-titrate
back-titration
back-to-back
back-to-back switching circuit
back-to-front
back-trailer
back-trip
back-up
back-up light
back-ward
back-way
backache brake
backache root
backbreaking work
backdoor trots
backed-off
backer-up
backers-up
backflap hinge
backflow valve
background detail
background music
background projection
background radiation
backhand rent
backing angle
backing bar
backing jointer
backing light
backing metal
backing off
backing out
backing paper
backing store
backing strip
backing striplight
backing up
backing wind
backing-off
backing-off lathe
backpacking tent
backpedaling brake
backseat driver
backspace key
backstairs influence
backup light
backup man
backward and forward
backward blessing
backward change
backward deviation
backward motion
backward step
backwards and forwards
backwater valve
bacon and eggs
bacon beetle
bacon hog
bacon-and-eggs
bacon-lettuce-tomato sandwich
bacteri-
bacteria bed
bacterial blight
bacterial canker
bacterial disease
bacterial plaque
bacterial therapy
bacterial vaccine
bacterial wilt
bacterio-
bacterio-opsonic
bacterio-opsonin
bacteriological warfare
baculo-metry
bad actor
bad behavior
bad blood
bad books
bad boy
bad break
bad breath
bad case
bad cess
bad character
bad check
bad child
bad condition
bad conduct discharge
bad copy
bad debt
bad debts
bad deed
bad dream
bad ear
bad egg
bad example
bad eyesight
bad fairy
bad faith
bad feeling
bad for
bad fortune
bad graces
bad grammar
bad guy
bad habit
bad hand
bad handwriting
bad hat
bad humor
bad influence
bad job
bad language
bad light
bad likeness
bad liquor
bad lot
bad luck
bad man
bad manners
bad money
bad move
bad name
bad news
bad notices
bad odor
bad off
bad people
bad peri
bad person
bad poet
bad poetry
bad policy
bad press
bad quality or effect
bad report
bad reputation
bad repute
bad smell
bad spelling
bad spirit
bad taste
bad temper
bad time
bad times
bad turn
bad will
bad woman
bad writing
bad-headed
bad-hearted
bad-humored
bad-looking
bad-minded
bad-mouth
bad-order freight
bad-smelling
bad-tempered
badge of infamy
badge of office
badger baiting
badger bird
badger dog
badger game
badger plane
badger skunk
badger-legged
badging hook
badly off
badminton court
badminton cup
bae-
baeberry bark
baffle board
baffle description
baffle gate
baffle painting
baffle plate
baffling problem
baffling wind
bag and baggage
bag bearer
bag beater
bag boom
bag bundler
bag cap
bag clasp
bag cleaner
bag cutter
bag dryer
bag feeder
bag filler
bag filter
bag fitter
bag folder
bag fox
bag frame
bag framer
bag holder
bag house
bag loader
bag machinist
bag maker
bag marker
bag mender
bag net
bag of bones
bag of tricks
bag of wind
bag packer
bag picker
bag printer
bag rack
bag repairer
bag riveter
bag sewer
bag sleeve
bag sorter
bag stacker
bag stitcher
bag table
bag twine
bag work
bag worker
bag wrinkle
bag-bearing
bag-bedded
bag-bundling
bag-cheeked
bag-closing
bag-cutting
bag-filling
bag-flower
bag-folding
bag-printing
bag-reef
bag-sewing
bag-shaped
bag-wig
baggage agent
baggage car
baggage cart
baggage check
baggage clerk
baggage inspector
baggage man
baggage porter
baggage rack
baggage room
baggage train
baggage van
baggage wagon
baggage-smasher
bags I
bagworm moths
baib grass
bail bond
bail out
bail up
bail you out
bail-dock
bail-out
bailer shell
bailey bridge
bain-marie
bains-marie
bait and switch
bait bug
bait casting
bait set
bait the hook
baited trap
bake cart
bake kettle
bake sale
bake-meat
bake-off
baked Alaska
baked beans
baked goods
baked meat
baked sheep's head
baked-apple
baken by surprise
baker bird
baker sheet
baker's cheese
baker's dozen
baker's legs
baker-knee
baker-kneed
baker-leg
baker-legged
bakers' yeast
bakery moth
bakery proofer
baking powder
baking soda
bal costume
bal masque
balaclava helmet
balance accounts
balance adjuster
balance arm
balance beam
balance bob
balance bridge
balance clerk
balance cock
balance coil
balance crane
balance dock
balance electrometer
balance fish
balance frame
balance gate
balance in hand
balance income with outgo
balance level
balance link
balance lug
balance maker
balance of nature
balance of payments
balance of power
balance of precision
balance of trade
balance pin
balance piston
balance pit
balance plane
balance rail
balance reef
balance ring
balance rope
balance rudder
balance rynd
balance screw
balance sheet
balance spring
balance staff
balance step
balance the books
balance valve
balance watch
balance weight
balance wheel
balanced diet
balanced fund
balanced line
balanced personality
balanced rudder
balanced sentence
balanced step
balanced ticket
balanced valve
balancer set
balancing band
balancing coil
balancing condenser
balancing flap
balancing link
balancing ring
balancing set
balancing ways
balanitis gangrenosa
balanophore wax
balas ruby
balata belt duck
balata gum
bald as a coot
bald as an egg
bald coot
bald cypress
bald eagle
bald fact
bald-faced
bald-faced hornet
bald-headed
bald-headedness
bald-pated
bald-patedness
balder-brae
balder-herb
bale band
bale breaker
bale buckle
bale conveyor
bale feeder
bale goods
bale hook
bale jumper
bale marker
bale opener
bale out
bale stick
bale stitcher
bale strap
bale tie
bale tier
bale-fire
baleen whale
baling machine
balk at
balk day
balk line
balk-line game
balky horse
ball and chain
ball and ring
ball bearing
ball boy
ball breaker
ball cactus
ball cartridge
ball caster
ball clay
ball club
ball cock
ball fern
ball foot
ball game
ball gentle
ball grinder
ball gudgeon
ball handle
ball indicator
ball ironstone
ball joint
ball lever
ball lightning
ball mill
ball moss
ball mustard
ball of fire
ball of wax
ball park
ball peen
ball peen hammer
ball pen
ball point pen
ball python
ball reamer
ball rest
ball rose
ball sage
ball screw
ball seater
ball smut
ball snake
ball stitch
ball tap
ball the jack
ball thistle
ball top
ball turret
ball up
ball valve
ball-and-claw foot
ball-and-socket joint
ball-bearing
ball-carrier
ball-flower
ball-hooter
ball-jasper
ball-park
ball-peen hammer
ball-planting
ball-point
ball-point pen
ball-shaped
ball-thrombus
ball-turret gun
ballad horn
ballad maker
ballad making
ballad measure
ballad meter
ballad metre
ballad opera
ballad poetry
ballad reciter
ballad rhyme
ballad singer
ballad singing
ballad stanza
ballad style
ballad writer
ballast brakesman
ballast car
ballast cleaner
ballast crusher
ballast engine
ballast fin
ballast ganger
ballast heaver
ballast hole
ballast inspector
ballast line
ballast loader
ballast master
ballast plant
ballast port
ballast pump
ballast regulator
ballast spreader
ballast stone
ballast tank
ballast tipper
ballast track
ballast trimmer
ballast tube
ballast unloader
ballast-cleaning
ballast-crushing
ballast-loading
balled up
balled-up
ballet blanc
ballet d'action
ballet dancer
ballet dancing
ballet divertissement
ballet girl
ballet master
ballet mistress
ballet music
ballet shoes
ballet skirt
ballet slipper
ballet slippers
ballet suite
ballets blancs
balli buntl
ballibuntl hat
balling furnace
balling gun
balling head
balling iron
ballistic camera
ballistic capsule
ballistic galvanometer
ballistic missile
ballistic pendulum
ballistic trajectory
ballistic wind
ballon d'essai
ballon-sonde
ballonet ceiling
ballons d'essai
balloon ball
balloon barrage
balloon bed
balloon chuck
balloon clock
balloon cloth
balloon fabric
balloon feather
balloon foresail
balloon frame
balloon framing
balloon in
balloon jib
balloon sail
balloon seat
balloon sickness
balloon sleeve
balloon tire
balloon trainshed
balloon tyre
balloon vine
balloon-berries
balloon-berry
ballooning in
ballooning spider
ballot box
ballot paper
ballot-box stuffer
ballot-box stuffing
balloting place
ballpoint pen
ballroom dance
ballroom dancer
ballroom dancing
ballroom music
balls-up
bally gum
ballyhoo man
balm apple
balm cottonwood
balm cricket
balm dew
balm fir
balm leaf
balm mint
balm of Gilead
balm of gilead
balm oil
balm pine
balm shrub
balm tea
balm wine
balm-apple
balm-breathing
balm-cricket
balm-leaved
balm-shed
balmy sleep
balsa raft
balsam apple
balsam bog
balsam capivi
balsam copaiba
balsam cucumber
balsam fig
balsam fir
balsam flowers
balsam groundsel
balsam herb
balsam hickory
balsam of Mecca
balsam of Peru
balsam of fir
balsam of peru
balsam of tolu
balsam pear
balsam poplar
balsam shrub
balsam spruce
balsam spurge
balsam tree
balsam vine
balsam-tree family
balto-slavic
baluster column
baluster measure
baluster shaft
baluster stem
bambara butter
bamboo brier
bamboo curtain
bamboo fern
bamboo fish
bamboo grass
bamboo money
bamboo oyster
bamboo palm
bamboo partridge
bamboo rat
bamboo reed
bamboo screen
bamboo shade
bamboo shoot
bamboo shoots
bamboo sugar
bamboo turning
bamboo vine
bamboo ware
bambui butter
bambuk butter
banana bean
banana belt
banana bird
banana boa
banana eater
banana family
banana fish
banana flour
banana fly
banana freckle
banana liquid
banana moth
banana oil
banana quit
banana republic
banana root borer
banana seat
banana shrub
banana solution
banana split
banana water lily
banana weevil
banana wilt
band bracelet
band brake
band chain
band concert
band conveyer
band course
band creaser
band cutter
band driver
band filter
band iron
band leader
band major
band maker
band mill
band plant
band pulley
band resaw
band saw
band screen
band shell
band spectrum
band steel
band theory of solids
band together
band wagon
band wheel
band-aid
band-gala
band-pass filter
band-saw file
band-sawing
band-sawyer
band-shaped
band-tailed
band-tailed pigeon
bandage compress
bandar-log
banded anteater
banded purple
banded rattlesnake
banded rudderfish
banded together
bandied about
handle linen
bandoleer fruit
bandtailed pigeon
bandy about
bandy leg
bandy legsbow-legged
bandy with
bandy words
bandy-bandy
bandy-legged
baneful dire
bang away at
bang beggar
bang into
bang off
bang on
bang up
bang’s disease
bang-bang
bang-tail
bang-up
bangalore torpedo
banged-up
bangle ear
bangtail muster
banister back
banister-back
banjo clock
banjo eyes
banjo frame
banjo signal
banjo-picker
banjo-uke
banjo-ukulele
banjo-zither
bank acceptance
bank account
bank accountant
bank agent
bank annuities
bank annuity
bank assets
bank assistant
bank auditor
bank balance
bank barn
bank beaver
bank bill
bank bird
bank book
bank boss
bank brakesman
bank call
bank card
bank cashier
bank charter
bank check
bank claim
bank clearings
bank clerk
bank cod
bank court
bank credit
bank cress
bank deposit
bank deposit insurance
bank discount
bank draft
bank engine
bank sill
bank smack
bank statement
bank stock
bank superintendent
bank swallow
bank teller
bank tender
bank the fire
bank thistle
bank up
bank upon
bank vole
bank walker
bank water
bank weigher
bank winding
bank woman
bank-and-turn indicator
bank-bill
bank-book
bank-full
bank-high
bank-note
bank-riding
bank-side
bank-sided
bank-wound
banker's acceptance
banker's bill
banker's card
banker's cheek
banker's order
banker-mark
banker-out
banking account
banking doctrine
banking executive
banking file
banking indicator
banking pin
banking principle
banking screw
banking stud
banking wax
banking-house
banko ware
bankrupt in
bankrupt law
banksia rose
bankul nut
banner bearer
banner cloth
banner cloud
banner cry
banner head
banner headline
banner line
banner name
banner painter
banner plant
banner pole
banner pompano
banner screen
banner staff
banner stone
banner-fashioned
banner-shaped
bannock fluke
bannock stick
banns of matrimony
banquet of the soul
banquette slope
banquette tread
banyan day
banyan tree
banzai attack
banzai charge
baptism for the dead
baptism in the spirit
baptism of fire
baptismal dress
baptismal font
baptismal gown
baptismal name
baptismal regeneration
baptismal robe
bar beat
bar bell
bar billiards
bar bit
bar cent
bar chart
bar chuck
bar code
bar discharger
barb bolt
barb the dart
barba amarilla
barba amarillas
barbaric splendor
barbary ape
barbecue sauce
barbecued beef
barbecued spareribs
barbed cat
barbed tributary
barbed wire
barbed-wire entanglement
barbed-wire grass
barber bug
barber chair
barber college
barber pole
barber's basin
barber's chair
barber's itch
barber's pole
barber's shop
barber-bug fever
barber-surgeon
barberry family
barberry fig
barberry rust
barbershop chords
barbershop harmony
barbette carriage
barbette gun
barbital sodium
barbiturate addiction
barbiturate pill
barbituric acid
bare as the back of your hand
bare cupboard
bare fact
bare fallow
bare flesh
bare minimum
bare necessities
bare of
bare pole
bare possibility
bare skin
bare subsistence
bare sufficiency
bare suggestion
bare your fangs
bare-ankled
bare-armed
bare-ass
bare-assed
bare-backed
bare-bitten
bare-boned
bare-bosomed
bare-branched
bare-breasted
bare-chested
bare-clawed
bare-faced
bare-fingered
bare-gnawn
bare-handed
bare-headed
bare-kneed
bare-legged
bare-necked
bare-picked
bare-ribbed
bare-skinned
bare-skulled
bare-throated
bare-toed
bare-walled
bare-worn
bareback rider
bareboat charter
bareface tenon
barefaced lie
barefaced tenon
barefoot tea
barely audible
barely have a chance
barely see
barely sufficient
barely touching
bargain and sale
bargain away
bargain basement
bargain counter
bargain day
bargain driver
bargain for
bargain hunter
bargain on
bargain penny
bargain price
bargain prices
bargain sale
bargain table
bargain work
bargain-basement
bargain-counter
bargain-hunting
bargained for
bargaining session
bargaining unit
barge boom
barge canal
barge couple
barge course
barge in
barge into
barge rig
barge spike
barge stone
barge-board
barge-couple
barge-course
barge-laden
barge-rigged
barge-stone
baritone clef
barium bromate
barium carbonate
barium chloride
barium chromate
barium chrome
barium dioxide
barium enema
barium hydrate
barium hydroxide
barium meal
barium monoxide
barium nitrate
barium oxide
barium peroxide
barium protoxide
barium stearate
barium sulfate
barium sulfide
barium sulphate
barium sulphide
barium thiosulfate
barium yellow
bark at
bark at the moon
bark beetle
bark blazer
bark canker
bark chopper
bark cloth
bark conveyer
bark crusher
bark disease
bark dryer
bark extract
bark feeder
bark gouge
bark grafting
bark grinder
bark house
bark liquor
bark louse
bark maple
bark mark
bark mill
bark parenchyma
bark picker
bark pit
bark scaler
bark shredder
bark spud
bark spudder
bark stripper
bark tree
bark up the wrong tree
bark-bared
bark-cutting
bark-formed
bark-galled
bark-galling
bark-grinding
bark-shredding
bark-tanned
barkhausen effect
barking bill
barking deer
barking drum
barking frog
barking iron
barley broth
barley cake
barley candy
barley carrier
barley cleaner
barley clipper
barley coal
barley crusher
barley flour
barley fork
barley grass
barley mill
barley reel
barley scald
barley scourer
barley smut
barley straw
barley stripe
barley sugar
barley water
barley wine
barley-break
barley-bree
barley-broo
barley-cap
barley-clipping
barley-corn
barley-fed
barley-grinding
barley-hood
barley-hulling
barley-sugar
barn cake
barny beer
barn boards
barn dance
barn door
barn door skate
barn fowl
barn gallon
barn grass
barn gun
barn lantern
barn owl
barn raising
barn sash
barn swallow
barn-brack
barn-door
barn-door fowl
barn-door hanger
barn-door roller
barn-door skate
barn-door stay
barn-raising
barnacle goose
barnacle grass
barnacle scale
barnacle-back
barnacle-eater
barney-clapper
barns-breaking
barnyard fowl
barnyard golf
barnyard grass
barnyard millet
baro-
barograph camera
barometer gauge
barometer paper
barometric error
barometric gradient
barometric pressure
barometric switch
barometric wind rose
baron bailie
baron court
baron et femme
baron of beef
baroque formalism
baroque formalist
baroque organ
barrack emperors
barrack roof
barracks bag
barracks lawyer
barrage balloon
barrage receiver
barrage reception
barrage rocket
barred owl
barred spiral
barred spiral galaxy
barrel-heading
barrel-packing
barrel-roll
barrel-shaped
barrel-vaulted
barren brome grass
barren land
barrer-off
barrette file
barrier beach
barrier berg
barrier cream
barrier gate
barrier ice
barrier of secrecy
barrier pillar
barrier reef
barrier tactics
barrier treaty
barring out
barrio-dwellers
barrister-at-law
barrow boy
barrow tram
barrow truck
barrow-boy
barrow-man
barrow-men
barry-bendy
barry-nebuly
barry-pily
barry-wavy
bars gemels
barter economy
barter unit
barycentric coordinate system
baryon number
baryta feldspar
baryta paper
baryta water
baryta white
baryta yellow
baryto-
bas bleu
bas bleus
bas mitzvah
bas-fond
bas-relief
basal anaesthesia
basal body
basal conglomerate
basal ganglia
basal ganglion
basal metabolic rate
basal metabolism
basal ridge
basal-cell carcinoma
basal-nerved
basalt glass
basalt quarrier
basalt-porphyry
bascine case
bascule bridge
bascule escapement
base angle
base animals
base bend
base block
base box
base broom
base bullion
base burner
base camp
base cinnamon
base circle
base clef
base coin
base component
base course
base current
base depot
base estate
base exchange
base fee
base fuse
base hit
base horehound
base hospital
base knob
base level
base line
base load
base map
base metal
base metals
base net
base of operations
base oil
base on
base on balls
base pay
base period
base piece
base plate
base plug
base point
base price
base rate
base resistance
base right
base ring
base rocker
base rocket
base runner
base running
base salary
base signal current
base signal voltage
base speed
base stone
base tenant
base tree
base vervain
base wage
base wallah
base-ball
base-begged
base-begot
base-born
base-burner
base-court
base-forming
base-level plain
base-mettled
base-minded
base-mindedly
base-mindedness
base-souled
base-spirited
base-spiritedness
base-witted
baseball bat
baseball cap
baseball field
baseball glove
baseball mit
baseball rounders
baseball season
based on
basedow's disease
basement complex
basement house
basement membrane
bases on balls
bash up
bashi-bazouk
bashi-bazoukery
basi-
basic English
basic airman
basic anhydride
basic conductor physics
basic dichromate
basic dress
basic dye
basic education
basic english
basic facts
basic fuchsin
basic fuchsine
basic iron
basic lead carbonate
basic load
basic magenta
basic plumage
basic process
basic proposition
basic rate
basic salary
basic slag
basic substance weight
basic trainer
basic training
basic wage
basic weight
basic-lined
basil balm
basil mint
basil penny royal
basil thyme
basilar membrane
basilic vein
basin range
basing point
basing tariff
basis bundle
basis for belief
basis rate
basis weight
bask in
bask in the sun
bask in the sunshine
basket ash
basket beagle
basket bearer
basket boat
basket button
basket capital
basket carriage
basket case
basket cells
basket chair
basket clause
basket clerk
basket cloth
basket couching
basket elm
basket fern
basket fish
basket flower
basket grass
basket hare
basket hilt
basket hoop
basket maker
basket mast
basket oak
basket osier
basket palm
basket plant
basket salt
basket star
basket stitch
basket tree
basket weave
basket willow
basket withe
basket-ball
basket-bearing
basket-handle arch
basket-hilted
basket-of-gold
basket-star
basketball court
basketball season
basking shark
bass broom
bass bug
bass clef
bass deafness
bass drum
bass fiber
bass fiddle
bass flute
bass fly
bass guitar
bass hogfish
bass horn
bass killy
bass oboe
bass passage
bass player
bass reflex
bass response
bass saxophone
bass staff
bass sunfish
bass viol
bass violinist
bass-bar
bass-horn
bass-relief
bass-viol
bass-viol
basse danse
basse-taille
basses danses
basset griffon
basset horn
basset hound
basset oboe
basset table
basset-horn
bassi cantanti
bassi profundi
bassi-rilievi
basso buffo
basso cantante
bastel house
bastel-house
bastille day
bastille house
bastle house
bat about
bat around
bat bolt
bat bomb
bat boy
bat dance
bat ear
bat in
bat mitzvah
bat money
bat of an eye
bat out
bat out of hell
bat printing
bat ray
bat stingray
bat the breeze
bat the eyes
bat the eyes at
bat tick
bat tree
bat-eared
bat-fowl
bat-minded
bat-mindedness
bat-mule
batch loaf
batch processing
batch together
batcher plant
bateau bridge
bateau neck
bateau neckline
bated breath
bateleur eagle
batement light
bath asparagus
bath brick
bath brush
bath bun
bath cabinet
bath chair
bath cube
bath mat
bath mitzvah
bath salts
bath slipper
bath soap
bath sponge
bath towel
bath-
bath-loving
bathe with light
bathed in sweat
bathed in tears
bathed with light
bathing beach
bathing beauty
bathing belle
bathing cap
bathing costume
bathing girl
bathing gown
bathing hut
bathing machine
bathing place
bathing sandal
bathing shoe
bathing suit
bathing trunks
bathing-machine
bathe-
bathroom tissue
bathtub gin
bathy-
bathyal zone
batiator root
batracho-
bats in one's belfry
bats in the belfry
bats-in-the-belfry
batswing burner
batswing coral
battalia pie
batten door
batten down
batten down the hatches
batten ends
batten on
batten plate
batten pocket
batten upon
batter board
batter brace
batter bread
batter pile
batter post
batter pudding
batter rule
batter stick
batter-out
battered baby
battered child syndrome
batterering ram
batterering train
battering-ram
battery acid
battery cable
battery case
battery cell
battery charger
battery chart
battery eliminator
battery jar
battery lamp
battery maker
battery mud
battery radio
battery supply voltage
battery tester
battery wagon
battery water
battery-charging
battery-powered
battery-testing
batting average
batting block
batting eye
batting hammer
batting order
battle array
battle brand
battle call
battle clasp
battle club
battle cruiser
battle cry
battle din
battle fatigue
battle flag
battle fleet
battle front
battle gaff
battle game
battle group
battle horn
battle hymn
battle it out
battle jacket
battle lantern
battle line
battle piece
battle place
battle plane
battle police
battle position
battle quoit
battle range
battle royal
battle shield
battle shout
battle sight
battle site
battle smoke
battle song
battle star
battle station
battle twig
battle wagon
battle word
battle-ax
battle-axe
battle-fallen
battle-scarred
battle-slain
battle-spent
battle-writhen
battled embattled
battledore and shuttlecock
battleship gray
batule board
batwing burner
batwing chair
batwing sleeve
baulk line
baum marten
bauple nut
bauson-faced
bawdy house
bawl out
bawling-out
bawsay fern
bay antler
bay at the moon
bay bar
bay bean
bay bird
bay camphor
bay cat
bay cedar
bay coot
bay floe
bay goose
bay grass
bay holly
bay hops
bay ice
bay lambs
bay laurel
bay lavender
bay leaf
bay lynx
bay mackerel
bay mahogany
bay mare
bay myrtle
bay oak
bay oil
bay plum
bay point
bay poplar
bay rum
bay rum tree
bay salt
bay snipe
bay stall
bay stater
bay stone
bay tree
bay willow
bay winders
bay window
bay yarn
bay-bay
bay-breasted
bay-cedar family
bay-colored
bay-head bar
bay-leaf willow
bay-rum tree
bay-salt
bay-top palmetto
bay-window
bay-winged
bayacura root
bayamo winds
bayberry bark
bayberry candle
bayberry family
bayberry oil
bayberry wax
bayeux tapestry
bayonet base
bayonet clasp
bayonet joint
bayonet leg
bayonet legs
bayonet plant
bayonet socket
bayou bass
bayou lake
bazooka rocket
bc soil
bcg vaccine
bchamel sauce
bd ft
be Greek to
be OK
be a bargain
be a bear for
be a cold fish
be a coward
be a dark horse
be a deal
be a deputy
be a dupe
be a fast study
be a father to
be a feature of
be a flop
be a gas
be a gasbag
be a gasser
be a go
be a good investment
be a good sport
be a good trencherman
be a graphic artist
be a hit
be a law to
be a law unto yourself
be a logical impossibility
be a man
be a man of heart
be a man of sentiment
be a member
be a mother to
be a must for
be a paradox
be a parasite
be a party to
be a patsy
be a pawn of
be a plaything of
be a prey to anxiety
be a prey to your feelings
be a printmaker
be a quality of
be a reproach to
be a sideliner
be a sign of
be a slow study
be a spectator
be a stretch of the imagination
be a success
be a sucker
be a thing of the past
be a timeserver
be a trait of
be a waste of time
be a windbag
be a yes man
be able
be about
be about to
be about to be borning
be above
be absent
be absentminded
be absorbed in
be abstracted
be accepted
be accepted for
be accountable for
be accurate
be acquainted with
be active
be added
be admitted
be admitted to the bar
be advised by
be affected
be affected with
be afraid
be after
be against
be agin
be agitated
be agreeable
be agreeable to
be ahead
be ahead of time
be airborne
be alert
be alive
be alive with
be all ears
be all eyes
be all heart
be all one to
be all over
be all over with
be all thumbs
be all up with
be allowed
be along
be amazed
be ambitious
be an
be an accessory to
be an easy mark
be an icicle
be an imperative for
be an impossibility
be an incubus to
be an indication of
be angry
be animate
be annihilated
be answerable for
be antipathetic
be apodictic
be apparent
be appreciative of
be apprised
be apprised of
be aromatic
be around
be arrogant
be as expected
be as good as
be as good as your word
be as one looked for
be as one thought
be ashamed
be asleep at the switch
be asleep with the Lord
be astonished
be astounded
be at
be at a standstill
be at cross-purposes
be at ease
be at fault
be at home
be at home in
be at home to
be at one with
be at peace among yourselves
be at sea
be at the bottom of
be at the conn
be at the controls
be at the head of
be at the helm
be at the mercy of
be at the rudder
be at the tiller
be at the wheel
be at variance
be at work on
be at your service
be at your wit's end
be attractive
be aware of
be axiomatic
be based on
be before
be beforehand
be begotten
be behind
be behindhand
be believed
be benevolent
be benighted
be bereaved of
be bereft of
be beside yourself
be betimes
be beyond one
be big
be blessed-eventing
be blind
be blind to
be blinded by your own glory
be blooded
be bombastic
be born
be born for
be born out of wedlock
be born so
be born to trouble
be born under an evil star
be born unto trouble
be bound
be bound to pay
be bounded by
be brewing
be brief
be bright
be brilliant
be broad-minded
be brought down
be built that way
be buoyed up
be burnt into your memory
be busy
be called
be capricious
be careful
be caught napping
be caught out
be caught short
be caught with your pants down
be cautious
be certain
be champing at the bit
be changed
be characteristic
be cheap
be cheek by jowl with
be cheerful
be chopfallen
be clear
be clobbered
be close friends with
be closeted with
be coerced
be coextensive with
be cognizant of
be cold
be cold as ice
be comfortable
be comforted
be commensurable
be comparable
be compelled
be comprised in
be concave
be conceived
be concerned
be concise
be conditional on
be confident
be confined
be conscious of
be conservative
be considerate
be consistent
be conspicuous
be constituted by
be construed as
be consumed
be consumed with desire
be contained in
be contemptuous of
be content
be content with
be contiguous
be contingent
be contingent on
be continuous
be contrary to
be conversant with
be converted
be converted into
be convicted
be convinced
be convincing
be convulsed with laughter
be correct
be courteous
be covetous of
be credulous
be crestfallen
be crowned with success
be cruel to be kind
be crushed
be curious
be damaged
be damned
be damp
be dark
be dated
be dead
be dead and gone
be deaf
be death on
be deceived
be defeated
be demonstrable
be dependent on
be deserving
be desirous of
be despaired of
be desperately in love
be despondent
be destined
be destined for one
be destined for you
be destroyed
be determined
be diagnostic of
be difficult
be diffident
be dilatory
be disagreeable
be disappointed
be disappointing
be discovered
be discriminating
be disenchanted
be disgraced
be dishonest
be disillusioned
be disorderly
be disposed to
be disrespectful
be dissonant
be distant
be distasteful
be distinct
be distinguished
be doing
be done for
be doomed
be doubly punished
be doubtful
be down on
be downbeat
be dressed in
be driven
be driven into a corner
be drunk
be dry
be dubious
be due
be due to
be dumb with grief
be dying for
be dying to
be eager
be eager about
be earless
be earlier
be early
be easy
be easy in your mind about
be easy of belief
be easy of persuasion
be easy on
be easy to recall
be easy with
be eaten away
be eating someone
be effective
be effortless
be elastic
be eloquent
be embarrassed
be employed
be employed in
be energetic
be enfeoffed of
be enfranchised
be engaged
be engaged in
be engrossed in
be enthusiastic
be entitled to
be envious of
be equal to
be eradicated
be erect
be ever the same
be evident
be excitable
be excited
be expectant
be expected
be expecting
be expedient
be experienced
be expert
be expert at
be expert in
be exposed
be exposed to
be extant
be extirpated
be eyeball to eyeball
be fair
be faithful to
be false
be famous
be far from your thoughts
be fashionable
be fastidious
be fat
be fated
be featured
be fed up
be feeling no pain
be felled
be financially committed
be firm
be fit to be compared
be fitted
be fitting
be fond of
be foolish
be for it
be forced
be forgetful
be forgotten
be formed
be fortunate
be found
be found guilty
be found wanting
be fragrant
be frank
be free
be frequent
be fresh in your memory
be friends
be frightened
be fruitful
be full of beans
be full of emotion
be full of ginger
be full of pep
be full of piss and vinegar
be full of zip
be gainful
be game
be garrulous
be gathered to your fathers
be generous
be generous with
be getting along
be given a jar
be given a jolt
be given a start
be given a turn
be glimpsed
be gone
be good
be good enough
be good for
be good to
be grateful
be gravid
be great with child
be green
be green in your memory
be guided by
be guilty
be had
be half-blind
be hand in glove with
be handy
be hanged
be hard on
be hard put
be hard to believe
be hard to please
be hard up
be harmonious
be heading for a fall
be healthy
be heard
be heavy
be heavy on one
be heavy on you
be heavy upon
be hell on
be hep to
be here again
be high
be holier than the Pope
be honest
be hopeful
be hopeless
be hostile
be hostile to
be hot
be humiliated
be hurting for
be hypocritical
be idle
be ignorant
be ill-humored
be illegitimate
be imbued with the spirit of
be imminent
be impatient
be imperfect
be imperturbable
be implicated in
be important
be impossible
be impotent
be impressed with yourself
be imprisoned
be improbable
be in
be in a brown study
be in a certain state
be in a dilemma
be in a hurry
be in a quandary
be in a rut
be in a speech situation
be in a state
be in accord with
be in action
be in bloom
be in cahoots
be in cahoots with
be in commission
be in concert
be in connection
be in contact
be in danger
be in desperate case
be in dissent
be in earnest
be in effect
be in error
be in existence
be in favor of
be in flower
be in for
be in for it
be in force
be in front
be in harmony with
be in heat
be in heaven
be in hopes
be in intercourse
be in it
be in league
be in line for
be in love with
be in luck
be in mortal dread of
be in need of
be in no hurry
be in office
be in on the decisions
be in operation
be in opposition to
be in paradise
be in peril
be in phase
be in process
be in progress
be in receipt of
be in rut
be in service with
be in seventh heaven
be in stitches
be in store
be in suspense
be in the best of health
be in the books
be in the cards
be in the dark
be in the debt of
be in the driver's seat
be in the family way
be in the fire
be in the future
be in the hopper
be in the neighborhood of
be in the pink
be in the pipeline
be in the prime of life
be in the running
be in the saddle
be in the van
be in the vanguard
be in the vicinity of
be in the way of
be in the works
be in the wrong
be in time
be in touch
be in tune
be in tune with
be in want
be in your dotage
be in your estimation
be in your mind
be in your second childhood
be in your thoughts
be inattentive
be incarnated
be inclined to think
be incognito
be incommunicado
be incomplete
be incomprehensible
be incredible
be incredulous
be incumbent on
be incumbent upon
be incurious
be indebted
be independent
be indicated
be indicative of
be indifferent
be indifferent to
be indiscreet
be industrious
be ineffective
be infanticipating
be inferior
be infinite
be infinitely repetitive
be influential
be informed
be inharmonious
be inhospitable
be inimical
be innocent of
be innocent of forethought
be inquisitive
be insane
be inscribed
be inseparable
be insolent
be inspired
be instated
be instrumental
be insufficient
be intelligent
be intelligible
be intemperate
be intimate
be into
be intoxicated
be invisible
be involved
be irrefutable
be irreligious
be irresolute
be it so
be jealous
be jealous of your good name
be jealous of your repute
be jobber for
be joined
be judged
be judgmental
be judicious
be just
be just like one
be just like you
be just right
be just the thing
be just the ticket
be just what the doctor ordered
be keen
be kept waiting
be killed
be kind
be knocked up
be known as
be known by
be lacking
be laid by the heels
be last off the mark
be late
be late off the mark
be latent
be lawless
be learned
be learned in
be led to believe
be left
be left at the post
be left at the starting gate
be left behind
be left over
be lengthy
be lenient
be let down
be liable
be liable for
be liberal with
be light
be like
be likely
be limited by
be listened to
be livid
be loaded
be located
be logical
be long
be long in the tooth
be long of the market
be loquacious
be lost
be lost in thought
be loving
be low
be lucky
be made one
be made public
be magnetic
be manifest
be master
be master of
be master of the situation
be meaningless
be merry with
be met with
be misguided
be misled
be missed
be mistaken
be moderate
be modest
be more than a match for
be moved
be mute
be nailed to the cross
be nauseated
be near
be near the truth
be necessary
be neglectful
be negligent
be nervous
be neutral
be nice
be nice to
be no more
be no revelation
be no secret
be nobody's fool
be noisy
be not all there
be not your day
be noticeable
be numerous
be nuts about
be obligated
be obligated for
be obliged
be obliged for
be observant
be obsessed with
be obstinate
be occupied with
be of advantage to
be of another mind
be of favorable disposition
be of good cheer
be of good hope
be of like mind
be of no importance
be of one
be of one mind
be of one mind with
be of service
be of service to
be of some help
be of the opinion
be of the same
be of the same order
be of two minds
be of use
be off
be off and running
be off the track
be off your guard
be on
be on a collision course
be on a collision course with
be on an ego trip
be on cloud nine
be on deck
be on everyone's lips
be on good terms
be on hand
be on her beam ends
be on pins and needles
be on pleasure bent
be on the
be on the alert
be on the anvil
be on the back of
be on the ball
be on the fence
be on the lookout
be on the lookout for
be on the point of
be on the right scent
be on the rolls
be on the safe side
be on the same wavelength
be on the skids
be on the spot
be on the watch
be on the watch for
be on to
be on your best behavior
be on your feet
be on your good behavior
be on your guard
be on your last legs
be on your mettle
be on your mind
be on your uppers
be on your way
be one all over
be open to
be operative
be opposed to
be opposite
be optimistic
be ordained
be ostentatious
be otherwise occupied
be out for blood
be out of all patience
be out of it
be out of line
be out of step
be out of the running
be out of the woods
be out of your depth
be out of your mind
be present at
be present in
be printed
be prior
be probable
be prodigal with
be productive
be profitable
be prolonged
be prominent
be promiscuous
be promising
be proof against
be prosperous
be proud
be proud of
be proved
be pungent
be punished
be pushed to the wall
be put out of countenance
be put out to pasture
be put to the blush
be put to your wit's end
be putty in the hands of
be qualified
be quiet
be quits
be quits with
be rash
be ravenous
be ready
be ready and waiting
be ready for
be realized
be reasonable
be received
be reckless
be recognized
be reconciled to
be redolent of
be reflected
be regarded
be regarded as
be regulated by
be relaxed
be relieved
be relieved of choice
be religious
be remembered
be reminiscent of
be remunerated
be renewed
be repeated
be resentful
be resolute
be resolved
be responsible
be responsible for
be revealed
be rich
be right
be rightly served
be robbed of choice
be ruined
be safe
be salaried
be sanctimonious
be satisfactory
be satisfied
be seasick
be seated
be secluded
be secure in the belief
be security for
be seen
be seen in its true colors
be seen no more
be seen with half an eye
be seized by
be seized of
be seized with wonder
be self-consistent
be selfish
be sensible of
be sent back
be separated
be servile
be set by the current
be shamed
be sharp
be short
be short of the market
be sick
be significant of
be silent
be single
be situated
be skeptical
be skillful
be slow off the mark
be slow to accept
be slow to believe
be smitten
be so
be so good as to
be so in fact
be sociable
be sold
be somebody
be something
be somewhere else
be sorry for
be sought after
be spared
be spent
be sphinxlike
be spliced
be spoiling for
be sponsor for
be staggered
be stamped on your memory
be startled
be still
be stingy
be stood up
be straight
be straight man for
be strapped
be stricken
be stricken by
be strict
be stricken drunk
be strong
be strong in
be struck down
be stuck on yourself
be stuck-up
be stupid
be subject to
be subjected to
be successful
be such
be suicidal
be superannuated
be superseded
be superstitious
be surprised
be swallowed
be sweet on
be swept off your feet
be symptomatic of
be tactful
be taken aback
be taken as
be taken by death
be taken by surprise
be taken in
be taken unawares
be tasteful
be taught
be taught a lesson
be tedious
be telegraphic
be temperate
be thankful
be that as it may
be the bellwether
be the case
be the cause of
be the death of
be the death of one
be the death of you
be the decisive factor
be the duty of
be the effect of
be the equivalent of
be the fashion
be the front-runner
be the goat
be the incumbent
be the making of
be the mark of
be the matter
be the omen of
be the one that counts
be the patsy
be the plaything of
be the prey of
be the puppet of
be the rage
be the rule
be the saving of
be the sign of
be the soul of discretion
be the sport of
be the sport of winds and waves
be the style
be the thing
be the very image of
be the worse for
be the worse for wear
be theatrical
be there
be there for all to see
be thorough
be thoroughly grounded in
be thought of
be thoughtful of
be threatened
be thrilled
be thus
be timely
be tired
be to be
be to come
be to windward of
be to your liking
be told
be too deep
be too deep for
be too good for
be too much for
be touch and go
be touched
be tough
be transient
be transparent
be traumatized
be true
be truthful
be turbulent
be turned off by
be turned on by
be turned on to
be ugly
be unable to comprehend
be unable to get into your head
be unable to recall
be unable to recollect
be unable to retain
be unable to see
be unastonished
be unbelievable
be uncertain
be unchaste
be uncommunicative
be uncritical
be under an obligation
be under the impression
be under the necessity of
be under the sea
be under way
be understandable
be understood
be undesirable
be undiscriminating
be unexpected
be unfaithful
be unflappable
be ungrateful
be unguarded
be uniform with
be unimportant
be unintelligent
be uninteresting
be unintersting
be unjust
be unmarried
be unmindful of
be unmoved
be unorthodox
be unpleasant
be unprepared
be unproductive
be unready
be unregretful
be unseen
be unselfish
be unsociable
be unsuccessful
be unsure
be untruthful
be unwary
be unwilling
be up against it
be up and doing
be up and stirring
be up on
be up to
be up to something
be upbeat
be uppermost in the mind
be uppermost in your thoughts
be used to
be used up
be vain
be vain as a peacock
be victorious
be vigilant
be vigorous
be virtuous
be visible
be vital
be wafted
be warm
be watchful
be weak
be wedded to a belief
be well-informed
be wholesaler for
be widely reputed
be willing
be wiped out
be wise as a serpent
be wise as an owl
be wise to
be with child
be with it
be with one
be with young
be without end
be wont
be worth your while
be worthwhile
be worthy of
be worthy of comparison
be wreathed in smiles
be wrong
be your charge
be your due
be your fate
be your funeral
be your mission
be your office
be your outlook
be your own boss
be your own man
be your probable destiny
be your probable fate
be your prospect
be your responsibility
be yourself
be yourself again
be-
be-all
be-all and end-all
be-east
be-smut
be-smutch
beach apple
beach aster
beach bag
beach ball
beach bird
beach boat
beach buggy
beach bum
beach clam
beach crab
beach cusp
beach drifting
beach flea
beach goldenrod
beach grass
beach heather
beach pea
beach plant
beach plover
beach plum
beach ridge
beach robin
beach strawberry
beach tan
beach umbrella
beach wagon
beach wormwood
beach-la-mar
beach-sap
beaching gear
beacon boat
beacon fire
beacon lights
beacon station
bead and reel
bead edging
bead furnace
bead lightning
bead molding
bead plane
bead plant
bead slick
bead snake
bead tree
bead-eyed
bead-hook
bead-like
bead-roll
bead-rubies
bead-ruby
bead-shaped
beaded brow
beaded lizard
beaded with sweat
beaded-edge
beading plane
beading tool
beads of sweat
beady-eyed
beak flute
beak molding
beak rush
beak sedge
beak wattles
beak willow
beak-bearing
beak-head
beak-iron
beak-like
beak-nosed
beak-shaped
beaked salmon
beaked whale
beaker culture
beaker folk
beakhorn stake
beaking joint
beam aerial
beam anchor
beam antenna
beam arm
beam board
beam brick
beam bridge
beam caliper
beam center
beam clamp
beam compass
beam engine
beam fill
beam filling
beam hole
beam knee
beam knife
beam light
beam maker
beam mill
beam net
beam of light
beam plate
beam pump
beam reach
beam riding
beam roll
beam sea
beam tetrode
beam texture
beam transmission
beam trawl
beam trawler
beam trawling
beam tree
beam well
beam wind
beam-bending
beam-end
beam-ends
beam-power tube
beam-straightening
beam-switching tube
beam-tree
beaming knife
beaming machine
bean anthracnose
bean aphid
bean aphis
bean ball
bean beetle
bean blight
bean blower
bean cake
bean caper
bean clover
bean crake
bean curd
bean cutworm
bean dolphin
bean flour
bean goose
bean harvester
bean hole
bean honey
bean house
bean king
bean ladybird
bean leaf beetle
bean leaf roller
bean louse
bean mildew
bean mosaic
bean oil
bean picker
bean planter
bean pole
bean polisher
bean pot
bean rick
bean rust
bean shot
bean sprout
bean sprouts
bean thresher
bean tree
bean trefoil
bean tressel
bean vine
bean weevil
bean-bag
bean-caper family
bean-cleaning
bean-crushing
bean-feast
bean-fed
bean-planting
bean-pod borer
bean-polishing
bean-shaped
bear a child
bear a grudge
bear a hand
bear a helping hand
bear account
bear against
bear animalcule
bear arms
bear away
bear brush
bear bush
bear cap
bear cat
bear caterpillar
bear clover
bear corn
bear cub
bear date
bear down
bear down on
bear down on it
bear down upon
bear false witness
bear festival
bear for
bear fruit
bear garden
bear good will
bear grape
bear grass
bear hard upon
bear huckleberry
bear hug
bear ill will
bear in mind
bear in with
bear leader
bear malice
bear market
bear mat
bear more than your share
bear moss
bear no resemblance
bear no resemblance to
bear oak
bear off
bear off the land
bear on
bear out
bearskin gray
bearskin jobber
bearskin rug
beast epic
beast fable
beast fly
beast god
beast of burden
beast of prey
beast tale
beasts of field
beasts of prey
beasts of venery
beat a dead horse
beat a devil's tattoo
beat a retreat
beat a ruffle
beat a tattoo
beat about
beat about for
beat about the bush
beat against
beat all hollow
beat an alarm
beat around
beat around the bush
beat back
beat black and blue
beat block
beat board
beat by a nose
beat down
beat generation
beat hollow
beat into
beat into your head
beat it
beat man
beat note
beat off
beat one
beat out
beat pin
beat poet
beat reception
beat signal
beat the Dutch
beat the air
beat the bounds
beat the bushes
beat the drum
beat the drum for
beat the drums
beat the game
beat the gums
beat the rap
beat the shit out of
beat the system
beat the tar out of
beat time
beat to a jelly
beat to the draw
beat to windward
beat tone
beat up
beat up against
beat your brains
beat your brains out
beat your breast
beat your gums
beat your swords into plowshares
beat your way
beat-beat
beat-frequency oscillator
beat-up
beaten biscuit
beaten egg
beaten path
beaten proof
beaten track
beaten up
beaten work
beater press
beater-out
beater-up
beaters-up
beatific vision
beatified soul
beating heart
beating machine
beating orders
beating reed
beating-up
beatrix antelope
beau brummell
beau garcon
beauty-proof
beauty-waning
beaux arts
beaux esprits
beaux gestes
beaux ideal
beaux yeux
beaux-arts
beaux-esprits
beaver board
beaver brown
beaver cloth
beaver dam
beaver eater
beaver finish
beaver lily
beaver poison
beaver rat
beaver stones
beaver top
beaver tree
beaver-tree
beavertail beam
beavertail reflector
beazor nuts
bec et ongles
because of
because of that
because of this
bechamel sauce
beche-de-mer
beche-le-mar
beck and call
becket bend
becket knot
becking hammerman
beckoning crab
become a habit
become a member
become acquainted with
become adept in
become airborne
become alive to
become an appendage of
become an individual
become angry
become attached to
become awake to
become aware of
become bankrupt
become bound to
become conscious of
become conversant with
become defunct
become disordered
become enamored
become engaged
become excited
become exhausted
become extinct
become familiar with
become fashionable
become fixed
become higher
become informed
become insolvent
become known
become larger
become lost to sight
become manifest
become nervous
become obsolete
become of
become old
become one
become overweight
become popular
become public
become pulverized
become red
become shallow
become sick
become sponsor for
become suicidal
become the rage
become unintoxicated
become versed in
become visible
become void
become weak
become well-versed in
becquerel ray
becuiba fat
bed ale
bed and board
bed and breakfast
bed bolt
bed chair
bed check
bed curtain
bed down
bed fuel
bed head
bed hinge
bed in
bed jacket
bed joint
bed lamp
bed lathe
bed light
bed linen
bed maker
bed mold
bed molding
bed moulding
bed of Procrustes
bed of roses
bed on
bed pad
bed piece
bed place
bed plane
bed reach
bed rest
bed rot
bed sandwort
bed sheet
bed shoes
bed slat
bed sore
bed steps
bed stone
bed tea
bed timber
bed tray
bed vein
bed wagon
bed warmer
bed-clothes
bed-davenport
bed-fere
bed-head
bed-maker
bed-sitter
bee larkspur
bee laurel
bee louse
bee martin
bee milk
bee moth
bee nettle
bee orchid
bee orchis
bee plant
bee sage
bee scap
bee smoker
bee space
bee tree
bee wine
bee wolf
bee's knees
bee-butt
bee-eater
bee-headed
bee-loud
beech agaric
beech cherry
beech coal
beech family
beech fern
beech leaf snake
beech marten
beech mast
beech oil
beech tree
beech wheat
beech-green
beech-seedling mildew
beechnut oil
beechwood creosote
beef Bourguignon
beef Bourguignonne
beef Wellington
beef apple
beef bouillon
beef bread
beef cattle
beef dodger
beef extract
beef ham
beef juice
beef marrow
beef road
beef stearin
beef stroganoff
beef tallow
beef tea
beef up
beef's blood
beef-brained
beef-eating
beef-faced
beef-steak
beef-suet tree
beef-witted
beef-wittedly
beef-wittedness
beef-wood
beefed-up
beefing-up
beefsteak begonia
beefsteak fungus
beefsteak geranium
beefsteak plant
beefsteak saxifrage
beefwood family
beehive coke
beehive house
beehive kiln
beehive oven
beehive shelf
beehive tomb
beehive-shaped
beena marriage
beer and skittles
beer barrel
beer bottle
beer bottler
beer brewer
beer cellar
beer chiller
beer drinker
beer engine
beer fall
beer gallon
beer garden
beer glass
beer grains
beer hall
beer heart
beer keg
beer maker
beer money
beer mug
beer parlor
beer pump
beer scale
beer stone
beer vat
beer vinegar
beer yeast
beer-up
bees and honey
bees-wax
beeswax flint
beet army worm
beet blight
beet blocker
beet greens
beet harvester
beet heart rot
beet leafhopper
beet lifter
beet puller
beet root
beet rot
beet scab
beet sugar
beet webworm
beet-red
beetle brow
beetle over
beetle-browed
beetle-crusher
beetle-green
beetle-headed
beetling machine
befit the occasion
befit the season
befit the time
before Christ
before all
before an audience
before everything
before its time
before long
before noon
before now
before one
before the Christian Era
before the Common Era
before the Fall
before the Flood
before the bar
before the bench
before the court
before the fact
before the footlights
before the house
before the judge
before the mast
before the war
before the wind
before your eyes
before your face
before your time
before your very eyes
before-cited
before-created
before-delivered
before-going
before-known
before-mentioned
before-named
before-noticed
before-recited
before-said
before-tasted
before-thought
before-told
before-warned
before-written
beg a truce
beg for mercy
beg for your life
beg forgiveness
beg indulgence
beg leave
beg leave to doubt
beg off
beg pardon
beg the ear of
beg the question
beg to differ
beg, borrow, or steal
beggar boy
beggar brushes
beggar description
beggar girl
beggar maid
beggar's chicken
beggar's-lice
beggar's-tick
beggar's-ticks
beggar-lice
beggar-my-neighbor
beggar-my-neighbour
beggar-patched
beggar-tick
beggar-ticks
beggarly fellow
begging hermit
begging hermits
begging the question
begin again
begin to
beginner's luck
beginning and end
beginning of the end
begonia family
begonia rose
beguile of
beguile out of
beguile the time
behave ill
behave self-destructively
behave toward
behave yourself
behavior modification
behavior pattern
behavior psychology
behavior therapist
behavior therapy
behavioral norm
behavioral science
behavioral scientist
behavioristic psychology
behaviour therapy
behavioural science
behen oil
behenic acid
behenolic acid
behind bars
behind closed doors
behind the curtain
behind the eight ball
behind the eightball
behind the scenes
behind the times
behind the veil
behind the veil of secrecy
behind time
behind your back
behind your defenses
behind-the-scenes influence
behind-the-scenes operator
behind-the-scenes pressure
beholden to
beignet aux pommes
being ahead
being alive
being as how
being at rest
being brought to bed
being done
being here
being there
being uninteresting
bel canto
bel esprit
bel-accoil
bel-esprit
belay that
belay there
belaying cleat
belaying pin
belgian hare
belie-ve
believe anything
believe at the drop of a hat
believe in
believe without reservation
belittle yourself
bell animalcule
bell arch
bell beaker
bell book
bell borer
bell buoy
bell button
bell cage
bell thistle
bell toad
bell tower
bell transformer
bell trap
bell tree
bell vine
bell whistle
bell wire
bell-alarm switch
bell-bearer
bell-bird
bell-bottom
bell-bottomed
bell-bottoms
bell-cranked
bell-crowned
bell-faced
bell-flower
bell-flowered
bell-hanger's bit
bell-hooded
bell-house
bell-less
bell-like
bell-magpie
bell-metal
bell-metal ore
bell-mouthed
bell-nosed
bell-ringer
bell-shaped
bell-tongue
bell-up
bell-wether
belladonna lily
belladonna ointment
belle epoque
belle poque
belle tournure
belles lettres
belles-lettres
bellflower family
belli causa
bellow like a bull
bellow out
bellows blower
bellows boy
belly-helve
belly-laden
belly-land
belly-landing
belly-naked
belly-piece
belly-pinched
belly-proud
belly-sprung
belly-timber
belly-wash
belly-whop
belly-whopped
belly-whopping
belly-worshiping
belong to
belong to by nature
belong to the past
beloved object
below contempt
below deck
below par
below stairs
below standard
below the belt
below the limen of hearing
below the line
below the mark
below the salt
below the threshold of hearing
below zero
belt awl
belt carrier
belt clamp
belt conveyer
belt coupler
belt course
belt cutter
belt fork
belt highway
belt hoist
belt idler
belt in
belt insulation
belt knitter
belt lacing
belt line
belt maker
belt man
belt out
belt pulley
belt punch
belt railroad
belt sander
belt saw
belt shifter
belt shipper
belt slip
belt speeder
belt tenter
belt up
belt-coupled
belt-cutting
belt-driven
belt-folding
belt-repairing
belt-sanding
belt-sewing
belt-tightening
belted bias tire
belted kingfisher
belted knight
belted radial tire
belted sandfish
beter-skelter
beltsville small white
ben chervil
ben nut
ben oil
ben trovato
ben-teak
bench clamp
bench dog
bench drill
bench hardening
bench holdfast
bench hook
bench jockey
bench key
bench knife
bench lathe
bench mark
bench plane
bench press
bench root
bench scales
bench screw
bench show
bench stamper
bench stop
bench strip
bench table
bench terrace
bench test
bench tester
bench warmer
bench warrant
bench winder
bench-hardened
bench-kneed
bench-legged
bench-made
bench-mark
bench-warmer
benching iron
bend an ear
bend an ear to
bend attention to
bend back
bend dexter
bend leather
bend might and main
bend over
bend over backward
bend over backwards
bend pipe
bend sinister
bend the elbow
bend the eyes
bend the head
bend the knee
bend the knee to
bend the mind
bend the mind to
bend the mind upon
bend the neck
bend the thoughts to
bend the truth
bend to
bend to your will
bend to your yoke
bend your course
bend your ear
bend your effort
bend your steps
bend your steps for
bend your steps to
bending moment
bending press
bending punch
bending shackle
bending the knee
bending works
bends, the
bendy tree
bendy-wavy
bene vale
beneath contempt
beneath notice
beneath one
beneath the sky
beneath the sod
beneath your dignity
beneath your station
benefice-holder
beneficial interest
beneficiary heir
benefit association
benefit club
benefit from
benefit of clergy
benefit performance
benefit society
benefits forgot
benevolent despotism
benevolent disposition
bengal light
benign tumor
benjamin bush
benjamin tree
benjamin-bush
benne oil
benneting time
benni cake
bent grass
bent land
bent on
bent on pleasure
bent with age
bent-taildog
benthic zone
bentu de soli
benzyl thiocyanate
benzyldene acetone
benzyldene chloride
berberine tree
berberonic acid
berbice chair
bereave of life
bereaved of
bereft of
bereft of life
bereft of light
bereft of reason
berenice's hair
berg adder
berg crystal
berg ice
berg till
berg wind
bergamot camphor
bergamot mint
bergamot oil
bergamot orange
bergy bit
beriberi heart
bering time
berlin eye
berlin head
berlin wool
berlin-landaulet
berline-landaulet
bermuda grass
bermuda rig
bermuda shorts
bernese mountain dog
bernicle goose
berry alder
berry cone
berry ladle
berry patch
berry pepper
berry pie
berry spoon
berry tree
berry-bearing
berry-brown
berry-formed
berry-on-bone
berry-shaped
berrybone fish
berth cargo
berth deck
berillon system
beryl blue
beryl green
beryl-blue
beryl-green
beryllium bronze
beryllium copper
beryllium oxide
bes antler
bes-
bes-antler
beset with danger
besetting sin
beside the mark
beside the point
beside the question
beside yourself
beside yourself with joy
besom moss
bessemer converter
bessemer process
best bet
best bib and tucker
best bower
best clothes
best end
best friend
best girl
best love
best man
best part
best people
best regards
best room
best seller
best type
best wishes
best, the
best-able
best-abused
best-accomplished
best-agreeable
best-armed
best-ball
best-ball foursome
best-ball match
best-beloved
best-bred
best-built
best-clad
best-conditioned
best-conducted
best-considered
best-consulted
best-cultivated
best-dressed
best-established
best-esteemed
best-formed
best-graced
best-grounded
best-hated
best-humored
best-informed
best-intentioned
best-known
best-laid
best-learned
best-liked
best-liked
best-loved
best-made
best-managed
best-meaning
best-meant
best-minded
best-natured
best-nourishing
best-paid
best-paying
best-pleasing
best-preserved
best-principled
best-read
best-resolved
best-selling
best-sighted
best-skilled
best-tempered
best-trained
bestir yourself
bestow consideration upon
bestow honor upon
bestow on
bestow thought upon
bestow your affections on
bestow your hand upon
bet against
bet on
bet upon
bet your boots
bet your bottom dollar
bet your bottom dollar on
beta brass
beta decay
beta function
beta globulin
beta iron
beta particle
beta radiation
beta radiator
beta ray
beta rhythm
beta test
beta transformation
beta-amylase
beta-eucaine
beta-glucose
beta-indoleacetic acid
beta-naphthol
beta-naphthyl
beta-naphthyl benzoate
beta-naphthyl group
beta-naphthyl radical
beta-naphthyl salicylate
beta-naphthylamine
beta-orcin
beta-orcinol
beta-ray spectrograph
beta-ray spectrometer
betake yourself
betake yourself to
bete noire
betel nut
betel palm
betel pepper
betel phenol
bethink yourself
bethink yourself of
betray a confidence
betray itself
betray yourself
betrayed hope
better days
better for
better half
better off
better part
better self
better sort
better than nothing
better thoughts
better world
better yourself
better-advised
better-affected
better-balanced
better-becoming
better-behaved
better-born
better-bred
better-considered
better-disposed
better-dressed
better-humored
better-informed
better-knowing
better-known
better-liked
better-liking
better-meant
better-natured
better-omened
better-principled
better-regulated
better-seasoned
better-taught
better-witted
betterment tax
betting house
betting machine
betting parlor
betting ring
betting shop
betting system
betula camphor
betula oil
between Scylla and Charybdis
between acts
between brain
between decks
between halves
between now and then
between ourselves
between periods
between the hammer and the anvil
between the lines
between the teeth
between two fires
between two stools
between us
between wind and water
between you
between you and me
between your teeth
between-deck
between-decks
between-maid
between-whiles
betwixt and between
betwixt sleep and waking
beurre blanc
beurre fondu
beurre noir
bevel bearing
bevel edge
bevel gauge
bevel gear
bevel gearing
bevel joint
bevel pinion
bevel protractor
bevel siding
bevel square
bevel washer
bevel wheel
bevel-edged
bevel-faced hammer
beveling edge
beverage room
beyond a doubt
beyond a shade of doubt
beyond a shadow of doubt
beyond all bounds
beyond all expectation
beyond all limits
beyond all praise
beyond all question
beyond belief
beyond compare
beyond comparison
beyond control
beyond doubt
beyond expectation
beyond measure
beyond need
beyond one
beyond price
beyond question
beyond reach
beyond reason
beyond recall
beyond remedy
beyond seas
beyond the bounds
beyond the bounds of possibility
beyond the bounds of reason
beyond the call of duty
beyond the pale
beyond the shadow of a doubt
beyond understanding
beyond your ability
beyond your capacity
beyond your comprehension
beyond your control
beyond your depth
beyond your fondest dreams
beyond your means
beyond your power
beyond, the
bez antler
bez tine
bez-antler
bezoar antelope
bezoar goat
bezoar mineral
bezoar stone
bhut-bali
bi-
bi-bivalent
bi-guy
bi-iliac
bi-ischiadic
bi-ischiatic
bi-tri-
bialystok roll
bias binding
bias tire
bias your judgment
bib and brace
bib and tucker
bib nozzle
bib pout
bibble-babble
bible-christian
bible-clerk
biblico-
biblio-
biblio-
bibliography of bibliographies
bicameral legislature
bicarbonate of soda
bice blue
bice green
bichloride of mercury
bichromate cell
bichromate filter
bick-iron
bicker over
bicolor lespedeza
bicuspid valve
bicycle chain
bicycle clip
bicycle path
bicycle pump
bicycle race
bicycle racing
bicycle saddle
bicycle seat
bicycle-built-for-two
bicyclic terpene
bid Godspeed
bid a long farewell to
bid ale
bid at auction
bid bond
bid come
bid defiance
bid defiance to
bid euchre
bid fair
bid fair to
bid farewell
bid for
bid good day
bid good morning
bid good-bye
bid hello
bid in
bid prayer
bid price
bid time return
bid to combat
bid up
bid well
bid you welcome
bid-a-bid
bid-ale
bid-and-asked prices
biddery ware
bidding prayer
biddy-bid
biddy-biddy
bide the issue
bide your time
bidgee-widgee
biding place
bien cuit
bien entendu
bier right
bifurcation theory
big Chief
big Daddy
big White Chief
big as you please
big baby
big bag of wind
big band
big bang theory
big battalions
big bedbug
big ben
big bluestem
big boss
big boy
big brother
big bruise
big bug
big business
big businessman
big casino
big cat
big cheese
big chief
big deal
big dipper
big drink
big drunk
big end
big game
big game hunter
big gun
big hand
big heart
big hit
big hook
big house
big idea
big laurel
big league
big lie
big man
big man on campus
big marigold
big mouth
big name
big noise
big operator
big person
big price tag
big screen
big shot
big sister
big skate
big smoke
big stick
big talk
big talker
big time
big toe
big top
big top, the
big tree
big wheel
big wind
big with child
big with meaning
big with young
big word
big-antlered
big-armed
big-bang theory
big-bearded
big-bellied
big-bodied
big-boned
big-bosomed
big-breasted
big-bulked
big-chested
big-city man
big-cone pine
big-cone spruce
big-eared
big-endian
big-eyed
big-footed
big-framed
big-gaited
big-handed
big-headed
big-hearted
big-hoofed
big-jawed
big-laden
big-leaf ivy
big-leaf laurel
big-leaf maple
big-league
big-leaguer
big-leaved
big-leaved magnolia
big-looking
big-mouthed
big-name
big-nosed
big-note
big-rich
big-souled
big-sounding
big-swollen
big-ticket
big-time
big-time operator
big-time spender
big-timer
big-voiced
big-waisted
big-eye scad
bigger half
biggest frog in the pond
bighorn sheep
biglip sucker
bigmouth buffalofish
bihar tree
biik tooling
bilateral symmetry
bile acid
bile cyst
bile duct
bile pigment
bile salt
bile vessel
bilge block
bilge board
bilge coad
bilge keel
bilge keelson
bilge log
bilge piece
bilge pump
bilge rail
bilge saw
bilge strake
bilge water
bilge ways
bilge well
bilge-hoop
bilge-keel
bilge-water
bili-
biliary calculus
biliment lace
bilinear form
bilinear transformation
bilingual dictionary
bilingual edition
bilingual text
bilious cholera
bill and coo
bill book
bill broker
bill case
bill clerk
bill collector
bill discounter
bill discounting
bill file
bill of account
bill of adventure
bill of attainder
bill of complaint
bill of draft
bill of entry
bill of exchange
bill of fare
bill of goods
bill of health
bill of indictment
bill of lading
bill of mortality
bill of particulars
bill of rights
bill of sale
bill-and-cooers
bill-broker
bill-hook
bill-like
bill-patched
bill-shaped
billet at
billet boy
billet breaker
billet car
billet chipper
billet cutter
billet heater
billet man
billet piler
billet rolls
billet wheeler
billet worker
billet-doux
billets-doux
billiard ball
billiard cloth
billiard cue
billiard green
billiard match
billiard parlor
billiard player
billiard room
billiard table
billing and cooing
billing machine
billion-dollar grass
billow cloud
billow cloud
billy check
billy club
billy fairplay
billy gar
billy gate
billy goat
billy owl
billy playfair
billy tea
billy-button
billy-goat
billy-goat weed
billycock hat
bimetallic balance
bimetallic strip
bin-
bin-burn
binary arithmetic
binary cell
binary code
binary digit
binary fission
binary form
binary notation
binary number
binary operation
binary opposition
binary scale
binary star
binary system
binary-coded decimal
binary-coded decimal system
binaural broadcasting
binaural system
bind day
bind off
bind over
bind rail
bind up
bind yourself to
bind-days
binder board
binder course
binder pulley
binder twine
binder's board
binder's cloth
binder's title
bindi-eye
binding agreement
binding arbitration
binding course
binding edge
binding energy
binding off
binding over
binding post
binding rafter
binding receipt
binding screw
binding stone
binding strake
binding tape
binding twine
bundle stiff
bindweed nightshade
binet-simon scale
binnacle list
binocular fusion
binocular microscope
binodal quartic
binomial coefficient
binomial distribution
binomial name
binomial nomenclature
binomial series
binomial theorem
bio-
bio-aeration
bio-assay
bio-economic
bio-electric
bio-electrogenesis
bio-energetics
bio-osmosis
bio-osmotic
biochemical oxygen demand
biographical dictionary
biographical material
biographical records
biographical sketch
biological adjustive reactions
biological classification
biological clock
biological control
biological death
biological diagnosis
biological evolution
biological method
biological oxygen demand
biological product
biological science
biological sociology
biological species
biological stain
biological supplies
biological taxonomy
biological urge
biological vector
biological warfare
biological weapons
biotic potential
bipartisan policy
biphenyl rearrangement
birch beech
birch beer
birch borer
birch camphor
birch family
birch oil
birch partridge
birch skeletonizer
birch wine
birch-bark call
birch-bark oil
birch-leaf mahogany
birch-leaf skeletonizer
birch-tar oil
bird augury
bird bell
bird bolt
bird brier
bird cactus
bird cage
bird call
bird cherry
bird colonel
bird dog
bird duffer
bird eagles
bird eye
bird fancier
bird flower
bird fly
bird font
bird food
bird grape
bird grass
bird group
bird in hand
bird in the hand
bird knotgrass
bird life
bird louse
bird malaria
bird mite
bird net
bird of Jove
bird of Juno
bird of Minerva
bird of another feather
bird of ill omen
bird of night
bird of paradise
bird of passage
bird of peace
bird of prey
bird pepper
bird pest
bird plant
bird pox
bird preserver
bird rattle
bird refuge
bird sanctuary
bird seed
bird shop
bird shot
bird skin
bird snake
bird song
bird sound
bird spider
bird strike
bird stuffer
bird table
bird thistle
bird tick
bird vetch
bird watcher
bird whistle
bird young
bird's beak
bird's egg
bird's mouth
bird's nest
bird's nest soup
bird's-eye
bird's-eye maple
bird's-eye primrose
bird's-eye view
bird's-eyes
bird's-foot
bird's-foot fern
bird's-foot trefoil
bird's-foot violet
bird's-feet
bird's-nest
bird's-nest fern
bird's-nest fungus
bird's-nest orchid
bird's-nest soup
bird-batting
bird-brained
bird-cage
bird-dog
bird-dogged
bird-dogging
bird-egg pea
bird-eyed
bird-faced
bird-fingered
bird-foot
bird-feet
bird-in-the-bush
bird-lime
bird-nest
bird-nesting
bird-of-paradise bush
bird-of-paradise flower
bird-ridden
bird-voiced tree frog
bird-watch
bird-watcher
bird-witted
birdcage clock
birding piece
birds of a feather
birds-in-the-bush
birdseed grass
birdseed rape
birth canal
birth certificate
birth control
birth control device
birth control pill
birth controller
birth date
birth defect
birth flower
birth gift
birth hour
birth month
birth name
birth pain
birth palsy
birth pang
birth pangs
birth phantasy
birth rate
birth sin
birth theory
birth throe
birth throes
birth trauma
birth year
birth-control pill
birthday cake
birthday gift
birthday present
birthday suit
birthwort family
bis-
biscuit bag
biscuit baker
biscuit baking
biscuit beetle
biscuit box
biscuit china
biscuit clay
biscuit cutter
biscuit drawer
biscuit fire
biscuit fireman
biscuit firing
biscuit kilnman
biscuit leaves
biscuit oven
biscuit painter
biscuit pan
biscuit plant
biscuit porcelain
biscuit pottery
biscuit tortoni
biscuit ware
biscuit warehouse
biscuit weevil
biscuit worm
biscuit-brained
biscuit-colored
biscuit-fired
biscuit-shaped
bisecting compass
bisecting dividers
bishop bird
bishop coadjutor
bishop cotton
bishop pine
bishop ray
bishop sleeve
bishop stool
bishop suffragan
bishop's mitre
bishop's palace
bishop's purple
bishop's ring
bishop's weed
bishop's-cap
bishop's-weed
bismuth blende
bismuth chromate
bismuth glance
bismuth ocher
bismuth oxychloride
bismuth oxynitrate
bismuth spar
bismuth subchloride
bismuth subnitrate
bismuth tribromphenate
bismuth white
bismuth yellow
bismuthyl chloride
bissextile day
bissextille year
bistable circuit
bister green
bit by bit
bit gauge
bit key
bit much, a
bit of your mind
bit part
bit pincers
bit player
bit stop
bit, a
bit-by-bit
bit-weight control
bit-wise
bitch box
bitch chain
bitch goddess
bitch up
bitch-kitty
bitched up
bite back
bite in
bite off more than you can chew
bite plate
bite the bullet
bite the dust
bite the hand that feeds one
bite the hand that feeds you
bite the thumb at
bite the tongue
bite your head off
bite your lip
bite your nails
bite your nose off
bite your tongue
bite-sheep
bite-tongue
biting angle
biting housefly
biting louse
biting midge
biting wind
biting your nails
bito tree
bitt pin
bitten-leaf disease
bitter almond
bitter almond oil
bitter apple
bitter as gall
bitter cassava
bitter chocolate
bitter cold
bitter cress
bitter cup
bitter defeat
bitter disappointment
bitter dock
bitter draft
bitter draught
bitter end
bitter enemy
bitter feeling
bitter herb
bitter lake
bitter lemon
bitter orange
bitter pill
bitter principle
bitter resentment
bitter rot
bitter weather
bitter wood
bitter words
bitter-
bitter-almond oil
bitter-biting
bitter-end
bitter-ender
bitter-enderism
bitter-endism
bitter-orange oil
bitter-rinded
bitter-sweet
bitter-sweeting
bitter-tasting
bitter-tongued
bitterly cold
bitterly disappointed
bitterness of spirit
bitumen process
bituminous coal
bituminous macadam
biuret reaction
biuret test
bivalvate Biology
biw-
blab out
blab school
black Angus
black Minorca
black Orpington
black Spanish
black Sumatra
black acacia
black alder
black and blue
black and tan
black and white
black ant
black arm
black art
black art, the
black as a crow
black as coal
black as ebony
black as ink
black as midnight
black as night
black as pitch
black balsam
black basaltes
black bass
black bead
black bean
black bear
black beast
black beetle
black belt
black bent
black bile
black bindweed
black blizzard
black board
black body
black book
black bottom
black box
black brant
black bread
black bryony
black buck
black buffalo
black buran
black butter
black calla
black cap
black carpet beetle
black cat
black chaff
black cherry
black chokeberry
black clouds
black cod
black cohosh
black comedy
black copper
black cosmos
black crappie
black currant
black death
black despondency
black diamond
black diamonds
black disease
black dog
black drop
black duck
black durgon
black earth
black eye
black face
black face Highland
black fever
black fish
black flag
black flux
black fly
black fog
black foot
black fox
black friar
black frost
black game
black gang
black ghetto
black gnat
black gold
black gown
black gram
black grouse
black guillemot
black gum
black hand
black haw
black heat
black hellebore
black henbane
black hole
black horehound
black huckleberry
black humor
black ice
black ink
black ivory
black jack
black kite
black knot
black lead
black letter
black light
black liquor
black list
black locust
black look
black looks
black lung
black magic
black mail
black man
black maple
black margate
black maria
black mark
black mark to
black market
black marketeer
black marketer
black marten
black mass
black measles
black medic
black medick
black mercuric sulfide
black mold
black molly
black monday
black monk
black moor
black mould
black mulberry
black mustard
black nickel oxide
black nightshade
black nob
black oak
black opal
black or white
black out
black paternoster
black pepper
black perch
black pewter
black pit
black plague
black poplar
black powder
black power
black prince
black pudding
black quarter
black race
black raspberry
black rat
black ring
black rod
black root rot
black rot
black rudderfish
black ruff
black rust
black sable
black sage
black salts
black saltwort
black sand
black sap
black scoter
black sea bass
black selenium
black shank
black sheep
black skimmer
black snake
black snakeroot
black soap
black spot
black spruce
black squall
black squirrel
black stem
black stick
black storm
black studies
black stuff
black stump
black sucker
black supremacy
black swallowtail
black swan
black tea
black tie
black titi
black tracker
black treacle
black turnstone
black velvet
black vomit
black vote
black vulture
black walnut
black wash
black wattle
black whale
black widow
black widow spider
black witch
black-a-viced
black-a-visaged
black-a-vised
black-and-blue
black-and-blue mark
black-and-tan
black-and-tan terrier
black-and-white
black-and-white film
black-and-white photograph
black-and-white television
black-aproned
black-back flounder
black-backed
black-backed gull
black-ball
black-banded
black-bark pine
black-bearded
black-bellied
black-bellied plover
black-belt
black-berried
black-billed
black-billed cuckoo
black-billed magpie
black-blooded
black-blue
black-bodied
black-boding
black-bordered
black-boughed
black-breasted
black-browed
black-brown
black-bulb thermometer
black-bundle disease
black-capped
black-capped chickadee
black-chinned
black-clad
black-coat worker
black-coated
black-colored
black-cornered
black-crested
black-crowned
black-currant rust
black-eared
black-ears
black-edged
black-eye bean
black-eye sunfish
black-eyed
black-eyed Susan
black-eyed pea
black-eyed susan
black-faced
black-favored
black-feathered
black-figure
black-figured
black-fin snapper
black-footed
black-footed ferret
black-fruited
black-gowned
black-hafted
black-haired
black-head
black-headed
black-headed fireworm
black-headed gull
black-hearted
black-hilted
black-hole
black-hooded
black-hoofed
black-leg
black-legged
black-letter
black-letter day
black-lidded
black-lipped
black-locked
black-looking
black-maned
black-margined
black-market
black-marketeer
black-mouth
black-mouthed
black-neb
black-necked
black-necked stork
black-nosed
black-out
black-peopled
black-plumed
black-pot
black-red
black-robed
black-rooted
black-sander
black-shouldered
black-skinned
black-snake
black-spot canker
black-spotted
black-stoled
black-tail
black-tailed
black-tailed deer
black-thorn
black-throated
black-tie
black-toed
black-tongued
black-tressed
black-tufted
black-varnish tree
black-veiled
black-visaged
black-wash
black-whiskered
black-wood
blackback flounder
blackbanded sunfish
blackbelly rosefish
blackberry bark
blackberry lily
blackberry token
blackberry wine
blackbird bindweed
blackboy gum
blackcrowned night heron
blacken your good name
blacker than black synchronizing
blackest dye
blackfin cisco
blackfish oil
blackhead Persian
blackhead disease
blackhead grass
blackhead minnow
blackheart plover
blackjack oak
blackjack pine
blackland plow
blackout skit
blackpoll warbler
blacksmith shop
blacksmith welding
blacksmith's hammer
blacksmith's shop
blackstrap molasses
blacktail deer
blackwall hitch
blackwater fever
blad apple
bladder campion
bladder catchfly
bladder cherry
bladder fern
bladder fucus
bladder green
bladder herb
bladder kelp
bladder ketmia
bladder ketmie
bladder plum
bladder sedge
bladder senna
bladder snout
bladder tangle
bladder tree
bladder worm
bladder wrack
bladdernut family
bladderwort family
blade angle
blade apple
blade buffer
blade grader
blade harrow
blade roast
blade-point
blah feeling
blah-blah
blame for
blame on
blame upon
blame yourself
blame-shifting
blanc d'Espagne
blanc d'argent
blanc de blancs
blanc de fard
blanc de noirs
blanc fixe
blanch farm
blanch over
blanched almonds
blanco perch
bland diet
blank cartridge
blank check
blank cheque
blank despondency
blank determination
blank endorsement
blank flange
blank future
blank mind
blank out
blank shell
blank verse
blank wall
blank-eyed
blank-looking
blank-minded
blanket alga
blanket ballot
blanket binder
blanket binding
blanket chest
blanket cloth
blanket deposit
blanket drill
blanket fish
blanket holder
blanket leaf
blanket maker
blanket mortgage
blanket moss
blanket policy
blanket rate
blanket roll
blanket scum
blanket sheet
blanket stiff
blanket stitch
blanket washer
blanket weaver
blanket weaving
blanket-flower
blanket-stitch
blankety blank
blankety-blank
blanking amplifier
blanking die
blanking press
blanking punch
blanking signal
blanquette de veau
blare abroad
blare forth
blaze the trail
blaze up
blazing fire
blazing light
blazing star
blazon about
blazon abroad
blazon forth
bleach liquor
bleach out
bleach process
bleach wax
bleached blond
bleached out
bleached white
bleached-blond
bleaching agent
bleaching clay
bleaching croft
bleaching earth
bleaching engine
bleaching field
bleaching green
bleaching ground
bleaching powder
bleaching substance
bleaching tank
bleak outlook
bleak prognosis
bleak prospect
bleak weather
blear the eyes of
blear-eyed
blear-eyedness
blear-witted
bleary-eyed
bled white
bleed for
bleed nipple
bleed valve
bleed white
bleeder pipe
bleeder resistor
bleeder tile
bleeder's disease
bleeding disease
bleeding heart
bleeding-heart pigeon
bleeper Informal
blend in with
blend into
blend-word
blended whiskey
blending inheritance
blenno-
blennorrhagic arthritis
blephar-
blepharo-
bles mole
bles-bok
bless His holy name
bless my heart
bless out
bless the Lord
bless with
bless your stars
blessed event
blessed release
blessed sacrament
blessed thistle
blessed with
blessed with luck
bleu celeste
bleu cheese dressing
blight canker
blight your hope
blighted area
blighted hope
blighted neighborhood
blighted section
blighting glance
blind Chance
blind Justice
blind alley
blind and naked Ignorance
blind as a bat
blind as a mole
blind as an owl
blind bargain
blind bombing
blind casing
blind coal
blind copy
blind date
blind door
blind drunk
blind faith
blind fish
blind flange
blind flight
blind floor
blind flying
blind guess
blind gut
blind header
blind hookey
blind impulse
blind instinct
blind landing
blind leaders of the blind
blind man
blind man's buff
blind man's holiday
blind man's rule
blind man's watch
blind nailing
blind pig
blind poker
blind pool
blind rage
blind salamander
blind seed
blind side
blind snake
blind spot
blind spots
blind staggers
blind stamping
blind the eyes
blind tiger
blind to
blind tooling
blind trust
blind window
blind your eyes
blind yourself
blind yourself to
blind, the
blind-alley
blind-head
blind-loaded
blind-man's-buff
blind-nail
blind-nettle
blitzkrieg tactics
blo doper
bloat clover
bloat colic
bloat herring
bloated aristocrat
bloated plutocrat
bloated with pride
bloater whitefish
blobber lip
blobber-lipped
block and block
block and fall
block and falls
block and tackle
block anesthesia
block ball
block bond
block book
block booking
block brake
block capital
block chain
block chords
block coal
block coefficient
block colors
block core
block diagram
block diamond
block faulting
block flute
block foot
block front
block furnace
block grant
block hole
block in
block in course bond
block irrigation
block lava
block letter
block line
block maker
block mast
block model
block mold
block mountain
blood bank
blood baptism
blood bath
blood blister
blood bond
blood bread
blood brother
blood brotherhood
blood carcake
blood cast
blood cell
blood clam
blood clot
blood corpuscle
blood count
blood covenant
blood crisis
blood crystals
blood culture
blood cup
blood disease
blood diseases
blood disk
blood dock
blood donor
blood donor center
blood dust
blood feud
blood fine
blood flour
blood fluke
blood geranium
blood gill
blood gland
blood glue
blood groove
blood group
blood grouping
blood guilt
blood heat
blood horse
blood islands
blood knot
blood lily
blood lust
blood mare
blood meal
blood mole
blood money
blood orange
blood pheasant
blood picture
blood pink
blood plant
blood plasma
blood platelet
blood plum
blood poisoning
blood pressure
blood pudding
blood purge
blood rain
blood red
blood refiner
blood relation
blood relationship
blood relative
blood revenge
blood rite
blood royal
blood sacrifice
blood sausage
blood seller
blood serum
blood sister
blood spavin
blood sport
blood spot
blood strain
blood stream
blood substitute
blood sugar
blood test
blood ties
blood transfusion
blood tree
blood type
blood typing
blood vengeance
blood vessel
blood vine
blood-albumin glue
blood-and-guts
blood-and-thunder
blood-bedabbled
blood-bespotted
blood-besprinkled
blood-boltered
blood-bought
blood-cemented
blood-colored
blood-consuming
blood-defiled
blood-discolored
blood-drenched
blood-drop emlets
blood-drunk
blood-dyed
blood-extorting
blood-faced
blood-filled
blood-fired
blood-flecked
blood-frozen
blood-guilty
blood-gushing
blood-heat
blood-hot
blood-hued
blood-letter
blood-letting
blood-loving
blood-lye salt
blood-mad
blood-money
blood-plashed
blood-polluted
blood-polluting
blood-raw
blood-red
blood-relation
blood-root
blood-scrawled
blood-shaken
blood-shot
blood-shotten
blood-sized
blood-spattered
blood-spavin
blood-stain
blood-stirring
blood-stirringness
blood-stone
blood-strange
blood-suck
blood-sucker
blood-swelled
blood-swoln
blood-tinctured
blood-type
blood-vascular
blood-vessel
blood-warm
blood-wite
blood-won
blood-worm
blood-wort
bloodless operation
bloodless revolution
bloodless surgery
bloodwort family
bloody butchers
bloody flux
bloody hands
bloody mary
bloody mess
bloody murder
bloody noun
bloody shirt
bloody your hands with
bloody-back
bloody-bones
bloody-eyed
bloody-faced
bloody-handed
bloody-hearted
bloody-minded
bloody-mindedness
bloody-mouthed
bloody-nosed
bloody-red
bloody-sceptered
bloody-veined
bloom boy
bloom bud
bloom conveyer
bloom cutter
bloom heater
bloom hook
bloom late
bloom loader
bloom mill
bloom oil
bloom poison
bloom runner
bloom saw
bloom shearer
bloom shears
bloom side
bloom slinger
bloom smithy
bloom swinger
bloom tongs
bloom yard
bloom-colored
bloom-fell
bloom-shearing
bloomer girl
bloomer pit
blooming mill
blooming oil
blooming rolls
bloomy-down
blossom blight
blossom bud
blossom withy
blossom-bearing
blossom-billed
blossom-bordered
blossom-crested
blossom-end rot
blossom-faced
blossom-headed
blossom-laden
blossom-nosed
blot in your escutcheon
blot in your scutcheon
blot on your escutcheon
blot on your scutcheon
blot out
blot out your sins
blot up
blotch printing
blotch-shaped
blotting book
blotting case
blotting out
blotting pad
blotting paper
blow a fuse
blow a gasket
blow a horn
blow a hurricane
blow a kiss
blow a safe
blow about
blow accordion
blow away
blow case
blow down
blow for blow
blow great guns
blow hard
blow hot and cold
blow in
blow into
blow it
blow job
blow me down
blow milk
blow mold
blow molding
blow moulding
blow off
blow off steam
blow off the lid
blow on
blow open
blow out
blow over
blow post
blow sky-high
blow snake
blow the bugle
blow the chance
blow the clarion
blow the coals
blow the horn
blow the lid off
blow the tank
blow the trumpet
blow the whistle
blow the whistle on
blow through
blow to
blow to bits
blow to kingdom come
blow to pieces
blown up out of all proportion
blown-in-the-bottle
blown-mold
blown-molded
blown-out
blown-up
blowout grass
blowout magnet
blowpipe analysis
blowpipe reaction
blubber cask
blubber chopper
blubber fork
blubber grass
blubber lamp
blubber oil
blubber ship
blubber spade
blubber stove
blubber-cheeked
blubber-fed
blue Andalusian
blue Johnnies
blue Monday
blue Orpington
blue alert
blue angel
blue asbestos
blue baby
blue bag
blue bed
blue bell
blue belt
blue bird
blue black
blue blazing star
blue blindness
blue blood
blue bloods
blue bonnet
blue book
blue bottle
blue buck
blue bull
blue butcher
blue cat
blue cheese
blue chip
blue chip stock
blue coat
blue cohosh
blue colors and pigments
blue comb
blue copperas
blue coral
blue crab
blue crane
blue curls
blue daisy
blue dandelion
blue darter
blue dawn-flower
blue devil
blue devils
blue dicks
blue dogwood
blue dyer
blue ensign
blue eye
blue false indigo
blue fish
blue flag
blue flash
blue fox
blue funk
blue gas
blue goose
blue gown
blue grama
blue grosbeak
blue ground
blue grouse
blue gum
blue heaven
blue huckleberry
blue in the face
blue iron earth
blue jasmine
blue jay
blue jeans
blue john
blue joke
blue language
blue law
blue laws
blue lily-turf
blue line
blue lips
blue lobelia
blue lotus
blue mangler
blue marguerite
blue marlin
blue mass
blue melilot
blue mill
blue mixer
blue mockingbird
blue mold
blue moon
blue mould
blue movie
blue mud
blue myrtle
blue note
blue ointment
blue onyx
blue pencil
blue penguin
blue peter
blue phlox
blue pickerel
blue pigeon
blue pike
blue pikeperch
blue pill
blue plate
blue point
blue pointer
blue powder
blue presser
blue pressman
blue racer
blue ribband
blue ribbon
blue rockfish
blue ruin
blue runner
blue shark
blue sheep
blue shift
blue sky
blue spirea
blue spruce
blue star grass
blue stellar object
blue stem
blue stone
blue story
blue streak
blue succory
blue thistle
blue tit
blue trucker
blue turquoise
blue velvet
blue verditer
blue vervain
blue vitriol
blue walleye
blue water
blue whale
blue with cold
blue wood aster
blue ynde
blue, the
blue-annealed
blue-aproned
blue-arc phenomenon
blue-backed
blue-banded
blue-bellied
blue-belt
blue-berried
blue-billed
blue-bird
blue-black
blue-blackness
blue-blind
blue-blooded
blue-blossom
blue-bloused
blue-bottle
blue-breasted
blue-breasted darter
blue-brick university
blue-cap
blue-checked
blue-cheeked
blue-chip
blue-coated
blue-collar
blue-collar worker
blue-colored
blue-crested
blue-cross
blue-cross gas
blue-cross shell
blue-curls
blue-devilage
blue-devilism
blue-eared
blue-eye
blue-eyed
blue-eyed Mary
blue-eyed boy
blue-eyed grass
blue-eyed soul
blue-faced
blue-fish
blue-flowered
blue-footed
blue-fronted
blue-glancing
blue-glimmering
blue-gray
blue-gray gnatcatcher
blue-green
blue-green alga
blue-green algae
blue-green flame
blue-gum leaves
blue-haired
blue-headed
blue-headed vireo
blue-hearts
blue-hot
blue-john
blue-leaved
blue-lined
blue-mantled
blue-molded
blue-molding
blue-mottled
blue-mouthed
blue-nose
blue-nosed
blue-pencil
blue-penciled
blue-penciling
blue-pencilled
blue-pencilling
blue-rayed
blue-red
blue-ribbon
blue-ribbon jury
blue-ribbon panel
blue-ribboner
blue-ribbonism
blue-ribbonist
blue-roan
blue-rolled
blue-sailors
blue-sighted
blue-sky
blue-sky law
blue-slate
blue-spotted
blue-stained
blue-starry
blue-stemmed
blue-stocking
blue-striped
blue-tailed
blue-throated
blue-tinted
blue-tongued
blue-veined
blue-washed
blue-water
blue-water school
blue-wattled
blue-white
blue-winged
blue-winged teal
blue-yellow
blue-yellow blindness
blue-yellow-blind
blueback mullet
blueback salmon
blueback trout
blueberry ash
blueberry cornel
blueberry maggot
blueberry root
blueberry tree
bluebottle fly
bluebrick university
bluecoat boys
bluecoat school
bluefin tuna
bluehead sucker
bluejack oak
blueprint paper
blues singer
blues song
bluethroat pikeblenny
bluewater sailor
bluff formation
bluff off
bluff-bowed
bluff-headed
bluish-green
blunder away
blunder into
blunder on
blunder upon
blunders round about a meaning
blunt-angled
blunt-edged
blunt-ended
blunt-faced
blunt-headed
blunt-leaved
blunt-lobed
blunt-nosed
blunt-pointed
blunt-spoken
blunt-witted
blur circle
blur distinctions
blurred speech
blurred vision
blurring the eyes
blurt out
blush rose
blush unseen
blush up to the eyes
blush-colored
blush-compelling
blush-faced
blush-suffused
blush-tinted
blushing bride
blushing honors
bluster and bluff
bluster into
bluster out of
bo tree
bo-peep
bo-tree
boa constrictor
boa-constrictor
boar dog
boar grunt
boar hunt
boar stag
boar thistle
boar tree
boar-fish
boar-hunting
board and batten
board and board
board and room
board chairman
board check
board chopper
board cloth
board combiner
board company
board cover
board fence
board foot
board game
board liner
board lot
board maker
board measure
board of aldermen
board of commissioners
board of directors
board of education
board of elections
board of estimate
board of health
board of regents
board of supervisors
board of trade
board of trustees
board of visitors
board rack
board room
board rubber
board rule
boat steerer
boat train
boat truck
boat-bill
boat-billed heron
boat-fly
boat-green
boat-handler
boat-lowering
boat-race
boat-shaped
boat-tailed
boat-tailed grackle
boat-woman
boatswain bird
boatswain's call
boatswain's chair
boatswain's mate
boatswain's pipe
boatswain's stores
bob a curtsy
bob and wheel
bob down
bob for
bob runner
bob skate
bob skates
bob up
bob veal
bob wheel
bob wig
bob wire
bob-cherry
bob-haired
bob-sled
bob-tail
bob-white
bob-wig
bobbery pack
bobbin and fly frame
bobbin barreler
bobbin board
bobbin borer
bobbin boy
bobbin carrier
bobbin chucker
bobbin cleaner
bobbin filler
body building
body cavity
body cell
body centrole
body check
body cloth
body clothes
body clothing
body coat
body color
body colour
body constituent
body corporate
body count
body curer
body designer
body ease
body erecter
body fat
body finisher
body fluid
body former
body forth
body garment
body girth
body gripper
body harness
body heat
body height
body ill
body image
body ironer
body language
body linen
body lining
body loop
body louse
body maker
body mounter
body odor
body of Christ
body of Christians
body of advisers
body of affiliates
body of evidence
body of ideas
body of knowledge
body of law
body of learning
body of retainers
body of the crime
body of theory
body of water
body pain
body physician
body pigment
body plague
body plan
body plasm
body politic
body post
body scent
body servant
body shirt
body shop
body slam
body slave
body snatcher
body snatching
body stealing
body stocking
body suit
body surface
body track
body type
body varnish
body washer
body weight
body white
body whorl
body-breaking
body-build
body-centered
body-centred
body-guard
body-killing
body-line
body-line bowling
body-mind
body-snatching
boeuf a la bourguignonne
boeuf bourguignon
bofors gun
bog arum
bog asphodel
bog bean
bog spruce
bog stalker
bog star
bog stitchwort
bog strawberry
bog timber
bog torch
bog trefoil
bog turf
bog violet
bog whortleberry
bog willow
bog-bred
bog-down
bog-eyed
bog-oose
bog-iron ore
bog-rush
bog-trot
bog-trotter
bogey hole
bogey man
bogey-hole
boggle-dy-botch
bogie engine
bogie roll
bogus money
bohemian bob
bohemian brethren
bohr theory
bohun upas
boil away
boil down
boil off
boil over
boil smut
boil up
boil-off
boiled dinner
boiled dressing
boiled eggs
boiled meat
boiled oil
boiled shirt
boiled sweet
boiler alarm
boiler blower
boiler cleaner
bolt-head
bolt-hole
bolt-pointing
bolt-rope
bolt-shaped
bolt-threading
bolt-turning
bolter-down
bolter-up
bolters-down
bolters-up
bolting cloth
bolting house
bolting hutch
bolting tub
bolus alba
bomah nut
bomahnut oil
bomb bay
bomb calorimeter
bomb ketch
bomb lance
bomb out
bomb plane
bomb rack
bomb release
bomb run
bomb shelter
bomb site
bomb thrower
bomb tube
bomb vessel
bomb-ketch
bomb-proof
bomb-shell
bomb-throwing
bombaje palm
bombanassa palm
bombardier beetle
bombardment emission
bombardment rocket
bombardment squadron
bombardment weapons
bombastic person
bombay duck
bombe glacee
bomber jacket
bomber pilot
bond servant
bond service
bond timber
bond washing
bond-land
bond-servant
bonded warehouse
bonded whiskey
bonding electron
bonds of harmony
bonduc nut
bone ash
bone bed
bone black
bone bleacher
bone boiler
bone breccia
bone brown
bone cartilage
bone carver
bone cell
bone char
bone charcoal
bone china
bone conduction
bone corpuscle
bone crusher
bone cutter
bone dust
bone earth
bone fat
bone forceps
bone glass
bone grinder
bone heap
bone house
bone idle
bone jack
bone lace
bone meal
bone mill
bone of contention
bone of my bones
bone oil
bone pain
bone phosphate
bone pitch
bone plombe
bone polisherone porcelain
bone pot
bone precipitate
bone shark
bone sorter
bone spavin
bone spirit
bone tallow
bone tankage
bone tar
bone to pick
bone turquoise
bone up
bone waste
bone whale
bone white
bone yard
bone-ace
bone-breaking
bone-bred
bone-bruising
bone-carving
bone-chilling wind
bone-crushing
bone-dry
bone-dryness
bone-eater
bone-grinding
bone-hard
bone-idle
bone-lace
bone-laced
bone-lazy
bone-piercing
bone-rotting
bone-setter
bone-tired
bone-weary
bone-white
bone-wort
bonehead into it
bonehead play
bonehead trick
bongo drum
bonheur-du-jour
bonheurs-du-jour
bonne amie
bonne bouche
bonne foi
bonne nuit
bonnes amies
bonnes bouches
bonnet glass
bonnet gourd
bonnet grass
bonnet laird
bonnet limpet
bonnet macaque
bonnet monkey
bonnet pepper
bonnet piece
bonnet rouge
bonnet shark
bonnet shell
bonnet skate
bonnet top
bonnet-headed
bonnethead shark
bonnets rouges
bonny-clabber
bons amis
bons mots
bons vivants
bont tick
bonus issue
bonus system
bony fish
bony labyrinth
boo at
boo-boo
boo-boos
boob stunt
boob tube
booby gannet
booby hatch
booby hutch
booby prize
booby trap
booby-trap
booby-trapped
booby-trapping
boodle bag
boogie-woogie
book account
book agent
book burning
book canvasser
book card
book clamp
book clasp
book cloth
book club
book collecting
book collector
book corner
book cover
book credit
book debt
book end
book fair
book fell
book gill
book hand
book house
book in
book into
book inventory
book isinglass
book jacket
book knowledge
book learning
book list
book lore
book louse
book lung
book machine
book madness
book manufacturing
book match
book muslin
book name
book notice
book of account
book of common prayer
book of fate
book of hours
book of original entry
book of verse
book out
book packet
book palm
book part
book post
boring tube
born again
born before your time
born days
born fool
born for
born in Poland
born leader
born on itself
born out of wedlock
born to the purple
born under a bad sign
born under a lucky star
born under an evil star
born within sound of Bow bells
born yesterday
borne out
borning day
bornyl acetate
bornyl alcohol
bornyl formate
boro-
boron carbide
boron counter
boron nitride
borosilicic acid
borough council
borough english
borough reeve
borough-English
borough-english
borough-holder
borough-man
borough-master
borough-reeve
borough-town
borracha entrefina
borracha fina
borracha grossa
borrow pit
borrow the loan of
borrow trouble
borrowed plumes
borrowed stock
borrowed time
borrowed word
borrower’s card
borrowing capacity
borrowing days
borrowing power
borsch circuit
borscht belt
borscht circuit
borstal boy
borstal institution
borstal school
boskop man
bosom bar
bosom buddy
bosom friend
bosom friendship
bosom ironer
bosom knee
bosom maker
bosom making
bosom piece
bosom plate
bosom staff
bosom-breathing
bosom-deep
bosom-felt
bosom-folded
bosom-stricken
boss cocky
boss plate
boss-eyed
bossa nova
boston bag
boston bull
boston cream pie
boston fern
boston ivy
boston terrier
botanical garden
botano-
botany bay
botched writing
botched-up
both-handed
both-handedness
both-hands
bott hammer
bottery tree
bottle baby
bottle blower
bottle boot
bottle-assed type
bottle-bellied
bottle-blowing
bottle-brush
bottle-brush buckeye
bottle-butted
bottle-capping
bottle-carrying
bottle-cleaning
bottle-corking
bottle-fed
bottle-feed
bottle-filling
bottle-gas stove
bottle-green
bottle-head
bottle-holder
bottle-nose
bottle-nosed
bottle-nosed dolphin
bottle-nosed whale
bottle-o
bottle-rinsing
bottle-shaped
bottle-soaking
bottle-sterilizing
bottle-tailed
bottle-tight
bottle-washer
bottle-washing
bottled gas
bottled in bond
bottlenose dolphin
bottlenose oil
bottlenose whale
bottling up
bottling works
bottom boards
bottom bolt
bottom canch
bottom disease
bottom dog
bottom dollar
bottom drawer
bottom fermentation
bottom gear
bottom glade
bottom grass
bottom heat
bottom house
bottom ice
bottom land
bottom line
bottom line, the
bottom of the barrel
bottom of the heart
bottom of the sea
bottom on
bottom out
bottom plate
bottom price
bottom rake
bottom rot
bottom round
bottom sawyer
bottom side
bottom side up
bottom stope
bottom tool
bottom up
bottom water
bottom waters
bottom yeast
bottom-dump bucket
bottom-road bridge
bottom-set
bottoming hole
bottoming out
bottoming tap
bottomless depths
bottomless pit
bottomless purse
bottomry bond
bottoms up
bottoms up!
bouillismus toxin
boudoir cap
boudoir chair
boudoir dress
boudoir photograph
bough-pot
bought note
bought ready-to-wear
bougie decimale
bouillon cube
bouillon cup
bouillon spoon
bouillotte lamp
bouillotte table
boulder bast
boulder belt
boulder clay
boulder fern
boulder flat
boulder gravel
boulder raspberry
boulder train
boulder-stone
boulder-strewn
bouldering stone
boulevard stop
bounce back
bounce drill
bounce upon
bounced check
bouncing Bess
bouncing Bet
bouncing baby
bouncing bess
bouncing bet
bouncing check
bouncing-pin indicator
bound and determined
bound back
bound bailiff
bound book
bound charge
bound electron
bound foot
bound form
bound morpheme
bound over
bound to
bound up
bound up in
bound up with
bound variable
boundary condition
boundary layer
boundary light
boundary line
boundary point
boundary rider
boundary stone
bow legs
bow light
bow line
bow maker
bow net
bow oar
bow out
bow pen
bow pencil
bow pulpit
bow rudder
bow saw
bow stiffener
bow submission
bow the head
bow thistle
bow tie
bow to
bow to your will
bow trolley
bow wave
bow weight
bow window
bow your head
bow-and-quarter line
bow-back
bow-back chair
bow-backed
bow-beaked
bow-bearer
bow-bell
bow-bending
bow-compass
bow-draught
bow-dye
bow-dyer
bow-hand
bow-houghd
bow-iron
bow-legged
bow-less
bow-necked
bow-net
bow-shaped
bow-spring compass
bow-street
bow-string
bow-window
box grave
box green
box groove
box gutter
box hardening
box heading
box hedge
box hinging
box holder
box holly
box hook
box house
box huckleberry
box in
box iron
box jig
box junction
box keel
box key
box kite
box level
box lid
box loom
box maker
box metal
box midge
box myrtle
box nail
box nailer
box nut
box oak
box of cigarettes
box of cigars
box off
box office
box on the ear
box opener
box oyster
box pew
box plait
box plaiter
box plaiting
box pleat
box poison
box press
box respirator
box room
box scald
box scene
box score
box seat
box set
box settle
box sextant
box shook
box shop
box shutter
box sill
box sleigh
box spanner
box spring
box springs
box stair
box stall
box staple
box stew
box stoop
box stove
box strap
box stretcher
box strike
box string
box tail
box taler
box tenon
box the compass
box the ears
box toe
box tool
box tortoise
box trap
box tree
box truck
box turtle
box up
box valve
box waggon
box wagon
box wrench
box-bordered
box-branding
box-calf
box-cleating
box-covering
box-edged
box-elder aphid
brain cells
brain child
brain coral
brain damage
brain death
brain disease
brain drain
brain fag
brain fever
brain nerve
brain power
brain sand
brain specialist
brain stem
brain storm
brain surgery
brain teaser
brain trust
brain truster
brain tumor
brain twister
brain vesicle
brain wash
brain washing
brain wave
brain waves
brain-begot
brain-born
brain-breaking
brain-bred
brain-child
brain-cracked
brain-crazed
brain-crumpled
brain-damaged
brain-fever bird
brain-fevered
brain-fretting
brain-injured
brain-purging
brain-smoking
brain-spattering
brain-spun
brain-strong
brain-teaser
brain-tire
brain-trust
brain-wash
brain-washing
brains trust
brainstone coral
brake assembler
brake band
brake bar
brake beam
brake block
brake chain
brake chute
brake clevis
brake compartment
brake cylinder
brake drum
brake examiner
brake fitter
brake fluid
brake gear
brake hanger
brake harrow
brake horsepower
brake hose
brake lever
brake light
brake lining
brake maker
brake meter
brake operator
brake parachute
brake pedal
brake pipe
brake power
brake repairer
brake rod
brake shoe
brake spring
brake stripper
brake tester
brake valve
brake van
brake wheel
brake-testing
brake-van
braking parachute
braking power
braking ratio
bramble finch
bramble rose
bramble shark
bramble worm
bran boil
bran drench
bran duster
bran mash
bran steep
bran tub
bran-deer
bran-new
branch bank
branch banking
branch bar
branch circuit
branch cut
branch depot
branch gap
branch grass
branch herring
branch line
branch mark
branch of knowledge
branch of learning
branch of service insignia
branch of study
branch of the service
branch off
branch office
branch officer
branch out
branch point
branch trace
branch water
branch wilt
branch-bearing
branch-building
branch-charmed
branch-climber
branch-embellished
branch-rent
branch-strewn
branched chain
branches of
branches of medicine
branchial arch
branchial cleft
branchial groove
branching off
branching out
branchio-
branchiostegal ray
brand goose
brand iron
brand-oose
brand-mark
brand-new
brand-newness
brand-spanking new
branding iron
brandy Alexander
brandy and soda
brandy ball
brandy bottle
brandy butter
brandy mazzard
brandy mint
brandy smash
brandy snap
brandy snifter
brandy sour
brandy-bottle
brandy-burnt
brandy-faced
brandy-pawnee
brank-new
brank-ursine
brant bird
brant fox
brant goose
brant snipe
brant-fox
bras-dessus-bras-dessous
brash bearing
brass ankle
brass band
brass buffer
brass buttons
brass choir
brass farthing
brass finisher
brass fitter
brass founder
brass hat
brass instrument
brass knuckles
brass knucks
brass molder
brass pounder
brass quintet
brass section
brass spinner
brass tacks
brass turner
brass wind
brass, the
brass-armed
brass-bold
brass-browed
brass-cheeked
brass-colored
brass-eyed
brass-finishing
brass-fitted
brass-footed
brass-fronted
brass-handled
brass-headed
brass-hilted
brass-hooved
brass-lined
brass-melting
brass-mounted
brass-plated
brass-renting
brass-shapen
brass-smith
brass-tipped
brass-visaged
brass-wind instrument
brass-working
brattice cloth
brave face
brave front
brave person
brave show
brave west winds
brave-horsed
brave-looking
brave-minded
brave-sensed
brave-showing
brave-souled
brave-spirited
brave-spiritedness
bread corn
bread crumb
bread crumber
bread crust
bread cutter
bread flour
bread grain
bread knife
bread line
bread maker
bread mold
bread mould
bread pan
bread plate
bread pudding
bread rack
bread sauce
bread slicer
bread stick
bread stuff
bread toaster
bread tray
bread tree
bread wheat
bread wrapper
bread-and-butter
bread-and-butter model
bread-and-butter pickle
bread-baking
bread-basket
bread-corn
bread-crumb
bread-crumbing
bread-crust bomb
bread-cutting
bread-eating
bread-faced
bread-fruit
bread-liner
bread-stitch
bread-stuff
bread-tree
bread-winner
bread-wrapping
breadth extreme
breadth index
breadth molded
break Priscian's head
break a lance with
break a strike
break and entry
break away
break back
break bean
break boundary
break bounds
break bread
break bread with
break bulk
break camp
break cover
break down
break down and confess
break down and cry
break even
break faith
break flour
break for
break forth
break free
break front
break ground
break in
break in on
break in the market
break in upon
break into
break into a smile
break into music
break into pieces
break into smithereens
break iron
break it off
break it to
break it up
break jail
break jaws
break joint
break lathe
break line
break loose
break no bones
break off
break off
break off combat
break on the wheel
break open
break out
break out a flag
break out ballast
break out in a rash
break out in a sweat
break out the anchor
break out with
break pin
break point
break prison
break sheer
break shock
break silence
break step
break the back of
break the back of something
break the bank
break the charm
break the fall
break the habit
break the ice
break the law
break the neck of
break the news
break the pattern
break the peace
break the record
break the seal
break the sound barrier
break the spell
break the thread
break the trail
break through
break to harness
break to pieces
break to smithereens
break up
break van
break water
break wind
break with
break with the past
break you up
break your back
break your bonds
break your chains
break your eyes away
break your fast
break your fetters
break your heart
break your heart over
break your neck
break your promise
break your word
break yourself away
break-
break-back
break-circuit
break-down
break-even
break-even point
break-front
break-in
break-neck
break-off
break-promise
break-through
break-up
breakaway group
breakbone fever
breakdown lights
breakdown of authority
breakdown van
breakdown voltage
breaker card
breaker strip
breaker-down
breaker-off
breaker-up
breakers ahead
breakeven chart
breakfast bacon
breakfast bell
breakfast food
breakfast knife
breakfast nook
breakfast plate
breakfast room
breakfast set
breakfast table
breakfast time
breaking and entering
breaking down
breast stroke
breast tea
breast the current
breast the flood
breast the tide
breast the wave
breast timber
breast wall
breast wheel
breast-beam
breast-beater
breast-beating
breast-board
breast-deep
breast-fed
breast-feed
breast-feeding
breast-high
breast-hook
breast-plate
breast-plough
breast-rending
breast-wheel
breasting knife
breastwork log
breath glide
breath group
breath of air
breath of life
breath of your nostrils
breath test
breath-bereaving
breath-blown
breath-giving
breath-stopping
breath-sucking
breath-tainted
breath-taking
breathe again
breathe down your neck
breathe easier
breathe easily
breathe easy
breathe fire and fury
breathe freely
breathe hard
breathe heavily
breathe in
breathe life into
breathe more freely
breathe new life into
breathe out
breathe the air of freedom
breathe vengeance
breathe your last
breather pipe
breathing apparatus
breathing capacity
breathing hole
breathing mark
breathing place
breathing pore
breathing space
breathing spell
breathing stress
breathing time
breathless adoration
breathless awe
breathless impatience
breathless wonder
breathy voice
bred in the bone
bred-in-the-bone
breech action
breech birth
breech bolt
breech delivery
breech mechanism
breech piece
breech pin
breech plug
breech screw
breech sight
breech-loader
breech-loading
breechblock plunger
breeches buoy
breeches money
breeches part
breeches pipe
breeching body
breeching loop
breeching strap
breed in and in
breed true
breeder reactor
breeder tulip
breeding ground
breeding place
breeding plumage
breeding sore
breeds of
breeds of cats
breeds of cattle
breeds of chickens
breeds of dogs
breeds of horses
breeds of sheep
breeds of swine
breeze along
breeze block
breeze box
breeze burner
breeze carrier
breeze concrete
breeze filler
breeze fly
breeze in
breeze into
breeze loader
breeze oven
breeze picker
breeze plant
breeze riddler
breeze tallyman
breeze up
breeze washer
breeze wheeler
breeze-borne
breeze-fanned
breeze-lifted
breeze-shaken
breeze-swept
breeze-wooing
brent goose
brent-new
brepho-
brest summer
bret-full
breu-
breve rest
brevet d'invention
brevi manu
brevi-
brewer's yeast
briar pipe
briar-hopper
bribe broker
bribe money
bribe-devouring
bribe-free
bribery and corruption
bribery oath
bric-a-brac
bric-a-brackery
brick arch
brick archer
brick ax
brick beam
brick burner
brick carrier
brick cheese
brick chipper
brick chisel
brick clay
brick cutter
brick drier
brick dust
brick earth
brick factory
brick hammer
brick hod
brick machine
brick machinist
brick mold
brick molder
brick nog
brick nogging
brick oven
brick paver
brick pointer
brick press
brick presser
brick red
brick sorter
brick stamp
brick stitch
brick tea
brick trimmer
brick trowel
brick wall
brick wheeler
brick-barred
brick-bound
brick-building
brick-built
brick-burning
brick-colored
brick-cutting
brick-drying
brick-dust
brick-dust deposit
brick-earth
brick-field
brick-fronted
brick-grinding
brick-hemmed
brick-kiln
brick-nogged
brick-paved
brick-red
brick-testing
brick-walled
bricklayer's hammer
bricks and mortar
bridal hymn
bridal outfit
bridal saddle
bridal suite
bridal wreath
bride and groom
bride duck
bride price
bride-ale
bride-cup
bride-lace
bride-to-be
bridge bar
bridge between
bridge bird
bridge bracket
bridge circuit
bridge coupler
bridge crane
bridge deck
bridge engineer
bridge engineering
bridge fluting
bridge grafting
bridge guard
brier bamboo
brier bush
brier rose
brier stitch
brig-rigged
brigade major
brigadier general
brigadier generals
bright and early
bright and fair
bright and shining
bright and sunny
bright color
bright days
bright diffuse nebula
bright eyes
bright idea
bright light
bright lights
bright outlook
bright prospect
bright rose
bright sentinels of the sky
bright side
bright smile
bright thought
bright wanderer
bright with promise
bright wool
bright young man
bright's disease
bright-bloomed
bright-cheeked
bright-colored
bright-dyed
bright-eyed
bright-eyed and bushy-tailed
bright-faced
bright-featured
bright-field
bright-flaming
bright-haired
bright-headed
bright-hued
bright-leaved
bright-line spectrum
bright-minded
bright-robed
bright-spotted
bright-striped
bright-studded
bright-tinted
bright-witted
brighten up
brightline spectrum
brightness equation
brightness temperature
brill's disease
brilliant cut
brilliant idea
brilliant light
brilliant success
brilliant-cut
brim over
brimming eyes
brimstone acid
brimstone butterfly
brimstone yellow
brindled gnu
brine fly
brine gauge
brine pan
brine pit
brine pump
brine pumper
brine shrimp
brine worm
brine-bound
brine-cooler
brine-cooling
brine-dripping
brine-pumping
brine-soaked
brinell hardness
brinell number
bring a case before the bar
bring a case before the court
bring about
bring about a detente
bring accusation
bring action against
bring around
bring back
bring back to the memory
bring bad luck
bring balm to your sorrow
bring before
bring before the public
bring by the lee
bring by the wind
bring charges
bring crashing down
bring down
bring down about your ears
bring down around your ears
bring down the house
bring down the sun
bring down upon
bring down upon one
bring down upon you
bring down upon your head
bring down upon yourself
bring face to face with
bring forth
bring forward
bring glad tidings
bring home the bacon
bring home to
bring in
bring in a verdict
bring in a verdict of not guilty
bring in an indictment
bring in question
bring in the wind
bring into analogy
bring into being
bring into comparison
bring into court
bring into discredit
bring into existence
bring into focus
bring into play
bring into question
bring into relation with
bring into the limelight
bring into the open
bring into the wind
bring into the world
bring into view
bring low
bring near
bring off
bring off the wind
bring on
bring on the wind
bring out
bring out in bold relief
bring out in high relief
bring out in strong relief
bring over
bring pressure to bear upon
bring reason to bear
bring round
bring shame upon
bring suit
bring the anchor home
bring the mind to bear upon
bring through
bring to
bring to a happy issue
bring to a head
bring to a stand
bring to a standstill
bring to a stop
bring to account
bring to an end
bring to an understanding
bring to attention
bring to bay
bring to bear
bring to bear upon
bring to birth
bring to book
bring to completion
bring to effect
bring to fruition
bring to justice
bring to life
bring to light
bring to maturity
bring to mind
bring to naught
bring to nothing
bring to notice
bring to nought
bring to pass
bring to reason
bring to recollection
bring to ruin
bring to tears
bring to terms
bring to test
bring to the bar
bring to the block
bring to the boiling point
bring to the fore
bring to the front
bring to the gallows
bring to trial
bring to view
bring to your notice
bring to your senses
bring together
bring trouble
bring tumbling down
bring under the hammer
bring under your notice
bring up
bring up by hand
bring up for investigation
bring up short
bring up the rear
bring up to date
bring up to date
bring upon
bring upon yourself
bring word
bring you back to earth
bring you down
bring you to your knees
bring you up short
bring-and-buy sale
bringer-up
bringing back to earth
bringing forth
bringing in
bringing into disorder
bringing into question
bringing of charges
bringing out
bringing to book
bringing to fruition
bringing to light
bringing to the ground
bringing together
bringing-up
brise-soleil
brisk market
brisket disease
bristle cell
bristle fern
bristle grass
bristle moss
bristle picker
bristle rat
bristle up
bristle with
bristle worm
bristle-faced
bristle-grass
bristle-pointed
bristle-pointed oat
bristle-stalked
bristle-tailed
bristle-thighed
bristle-thighed curlew
bristle-toothed
bristlecone fir
bristlecone pine
bristlewort family
bristling with arms
bristly foxtail grass
bristly sarsaparilla
britannia metal
britannia ware
british english
brittany spaniel
brittle as glass
brittle fern
brittle star
brittle-star
brix scale
broach post
broach spire
broach to
broach turner
broad accent
broad arrow
broad as the world
broad awake
broad bean
broad church
broad comedy
broad day
broad daylight
broad gage
broad gauge
broad glass
broad grin
broad hatchet
broad hint
broad humor
broad in the beam
broad jump
broad jumper
broad lines
broad mind
broad of beam
broad on the beam
broad on the bow
broad on the quarter
broad pendant
broad reach
broad seal
broad side foremost
broad spectrum
broad-arrow
broad-axe
broad-backed
broad-based
broad-beamed
broad-bean weevil
broad-billed
broad-bladed
broad-blown
broad-bodied
broad-bosomed
broad-bottomed
broad-boughed
broad-bowed
broad-breasted
broad-brim
broad-brimmed
broad-built
broad-chested
broad-chinned
broad-crested
broad-eared
broad-eyed
broad-faced
broad-flapped
broad-fronted
broad-gage
broad-gaged
broad-gauge
broad-gauge person
broad-gauged
broad-guage
broad-handed
broad-headed
broad-hoofed
broad-horned
broad-jump
broad-leafed
broad-leaved
broad-leaved bottle tree
broad-leaved maple
broad-limbed
broad-lipped
broad-listed
broad-margined
broad-minded
broad-minded person
broad-minedly
broad-mindedness
broad-mouthed
broad-nosed
broad-piece
broad-ribbed
broad-roomed
broad-set
broad-shouldered
broad-skirted
broad-souled
broad-spectrum
broad-spectrum antibiotic
broad-spectrum drug
broad-spoken
broad-spreading
broad-sterned
broad-striped
broad-tailed
broad-thighed
broad-tired
broad-toed
broad-toothed
broad-wayed
broad-wheeled
broad-winged
broad-winged hawk
broadbill dipper
broadcast band
broadcast channel
broadcast drama
broadcast journalism
broadcast loop
broadcasting regulation
broaden the mind
broadening the mind
broadleaf tree
broadloom carpet
broadly speaking
broadside aspect
broadside ballad
broadside on
broadtail cloth
broccoli brown
brock-faced
broderie anglaise
brogue hole
broil n
broiler house
broiling sun
broken accents
broken arch
broken chord
broken circuit
broken coal
broken color
broken dose
broken fortune
broken ground
broken heart
broken home
broken in
broken line
broken lot
broken marriage
broken mirror
broken off
broken pediment
broken record
broken speech
broken thread
broken to harness
broken tones
broken voice
broken water
broken wind
broken-arched
broken-backed
broken-bellied
broken-check
broken-down
broken-ended
broken-footed
broken-fortuned
broken-handed
broken-headed
broken-hearted
broken-heartedly
broken-heartedness
broken-hipped
broken-hoofed
broken-in
broken-kneed
broken-legged
broken-minded
broken-mouthed
broken-nosed
broken-paced
broken-record
broken-shanked
broken-spirited
broken-winded
broken-winged
broker's agent
broker's loan
brokerage house
brokerage office
brolly-hop
brom-
brome grass
bromic acid
bromide paper
bromine pentafluoride
bromine water
bromo-
bromoil process
bromoil transfer
bronch-
bronchial asthma
bronchial pneumonia
bronchial tube
bronchial tubes
bronchio-
broncho-
bronco grass
bronx cheer
bronze age
brook runner
brook silk
brook sunflower
brook tongue
brook trout
broom birch
broom brush
broom clover
broom corn
broom crowberry
broom cypress
broom goosefoot
broom grass
broom handle
broom heath
broom hickory
broom maker
broom millet
broom moss
broom palm
broom pine
broom sage
broom sedge
broom straw
broom tea tree
broom toadflax
broom tops
broom tree
broom twine
broom wattle
broom-leaved
broom-sewing
broomcorn millet
broomrape family
broomstick marriage
brother-german
brother-in-arms
brother-in-law
brotherly love
brothers under the skin
brothers-in-law
brougham-landaulet
brought about
brought down
brought in from nowhere
brought low
brought to notice
brought to your knees
brow ague
brow antler
brow point
brow tine
brow-bent
brow-wreathed
brown Bess
brown Betty
brown alga
brown algae
brown as a berry
brown bagging
brown bear
brown belt
brown bent
brown bess
brown betty
brown bill
brown bread
brown bullhead
brown butter
brown canker
brown coal
brown coat
brown creeper
brown george
brown gravy
brown hackle
brown heart
brown hematite
brown hyena
brown lung disease
brown madder
brown man
brown of dusk
brown off
brown out
brown race
brown rat
brown recluse spider
brown rice
brown rot
brown sauce
brown snake
brown soap
brown spot
brown stem rot
brown study
brown sugar
brown swiss
brown thrasher
brown thrush
brown trout
brown-armed
brown-backed
brown-banded
brown-barreled
brown-bearded
brown-berried
brown-colored
brown-complexioned
brown-eyed
brown-eyed Susan
brown-faced
brown-green
brown-haired
brown-headed
brown-leaved
brown-locked
brown-nose
brown-nosed
brown-noser
brown-nosing
brown-purple
brown-red
brown-roofed
brown-sailed
brown-skinned
brown-sleeve
brown-spotted
brown-state
brown-stemmed
brown-strained
brown-tail moth
brown-tailed
brown-washed
browned off
browned-off
brownian motion
brownian movement
browning solution
browning trowel
brownish-red
brownish-yellow
brownstone front
browsing room
bruit about
bruited about
bruiting about
brumbo pulley
brunch coat
brunch-word
brush ape
brush apple
brush aside
brush ax
brush back
brush borer
brush boring
brush box
brush breaker
brush bronzewing
brush broom
brush by
brush case
brush cherry
brush coating
brush cut
brush deal
brush deer
brush discharge
brush drag
brush driller
brush drilling
brush fashioner
brush fiber
brush filler
brush fire
brush hand
brush harrow
brush heap
brush holder
brush hook
brush kangaroo
brush keeper
brush maker
brush myrtle
brush off
brush on paint
brush ore
brush pile
brush polisher
brush puller
brush rabbit
brush sawyer
brush scythe
brush shunt
brush stick
brush stock
brush trimmer
brush turkey
brush turner
brush up
brush up on
brush varnisher
brush wheel
brush wolf
brush yoke
brush-breaking
brush-fire
brush-footed
brush-footed butterfly
brush-off
brush-shaped
brush-tail
brush-tailed
brush-tongued
brush-treat
brusher-off
brusher-up
brushfire war
brussels carpet
brussels lace
brussels sprout
brut champagne
brut concrete
brutal act
brutal fact
brutal task
brute creation
brute force
brute matter
brute strength
bruzz iron
bry-
brys-
bton de commandement
buaze fiber
bubble and squeak
bubble bath
bubble canopy
bubble car
bubble chamber
bubble dance
bubble dancer
bubble glass
bubble gum
bubble hood
bubble nest
bubble over
bubble sextant
bubble shell
bubble tower
bubble tube
bubble up
bubble-and-squeak
bubble-bow
bubbling over
bubbly-jock
bubonic plague
buccinator novi temporis
bucco camphor
buchu camphor
buchu oil
buck ague
buck and wing
buck basket
buck bean
buck fat
buck fever
buck finch
buck fleece
buck for
buck grass
buck in
buck knee
buck law
buck moth
buck off
buck passer
buck private
buck rabbit
buck rake
buck sail
buck scraper
buck sheet
buck slip
buck thistle
buck up
buck's horn plantain
buck's turn
buck's-horn
buck-and-wing
buck-bean
buck-bean family
buck-eye
buck-eyed
buck-horn
buck-hound
buck-jump
buck-mast
buck-one
buck-passing
buck-shot
buck-stall
buck-tooth
buck-toothed
buck-washing
bucker-up
bucket about
bucket bench
bucket brigade
bucket carrier
bucket conveyer
bucket down
bucket dredge
bucket hook
bucket hooker
bucket ladder
bucket maker
bucket orchid
bucket out
bucket pump
bucket rope
bucket seat
bucket shop
bucket snapper
bucket up
bucket well
bucket wheel
bucket-eyed
bucket-shaped
bucket-shop
buckeye rot
buckhorn brake
buckhorn plantain
buckhorn sight
bucking board
buffalo bush
buffalo carpet beetle
buffalo chips
buffalo cholera
buffalo cloth
buffalo clover
buffalo currant
buffalo cod
buffalo dance
buffalo disease
buffalo fish
buffalo fly
buffalo gnat
buffalo gourd
buffalo grass
buffalo jack
buffalo mange
buffalo moth
buffalo nut
buffalo pea
buffalo robe
buffalo sunfish
buffalo thorn
buffalo tree
buffalo tree hopper
buffalo wallow
buffalo weed
buffalo wolf
buffalo-headed
buffer bar
buffer beam
buffer block
buffer salt
buffer solution
buffer state
buffer therapy
buffer value
buffer zone
buffered aspirin
buffet car
buffet lunch
buffet supper
buffet the waves
buffing apparatus
buffing head
buffing wheel
buffle duck
buffle-headed
buffo bass
buffy coat
bug agaric
bug bomb
bug in the ear
bug juice
bug light
bug off
bug word
bug-eyed
bug-eyes
bug-juice
bug-word
bugger about
bugger off
bugger up
buggered up
bugging machine
buggy cultivator
buggy plow
bugle call
bugle corps
bugle horn
bugle-horn
bugle-weed
bugloss cowslip
bugs on
buhl clock
build a fire
build a house of cards
build castles in the air
build in
build into
build on
build the stately rime
build up
build up a stock
build up an inventory
build your house upon a rock
build-up
builder's knot
building anchor
building and loan association
building block
building blocks
building code
building construction
building contractor
building cradle
building inspector
building iron
building law
building lease
building line
building lot
building material
building mover
building paper
building permit
building rigger
building slip
building society
building surveyor
building trade
building trades
built for comfort
built like a brick shithouse
built on sand
built-in
built-up
built-up mast
bukk-
bulp angle
bulb bar
bulb fly
bulb iron
bulb keel
bulb mite
bulb plate
bulb rectifier
bulb rot
bulb scale
bulb-tee
bulbo-
bulbo-urethral
bulbourethral gland
bulbous bow
bulbous buttercup
bulbous crowfoot
bulbous-rooted
bulge hoop
bulging purse
bulk large
bulk line
bulk mail
bulk modulus
bulk out
bulk up
bulk-material conveyer
bulk-pile
bulkhead deck
bulkhead in
bulkhead line
bulky color
bull account
bull apple
bull bait
bull band
bull bay
bull birch
bull bit
bull block
bull brier
bull buttercup
bull chain
bull cook
bull daisy
bull dike
bull ditcher
bull donkey
bull dust
bull dyke
bull earing
bull fiddle
bull float
bull gear
bull grape
bull grass
bull gun
bull header
bull horn
bull in a china shop
bull kelp
bull mackerel
bull market
bull mastiff
bull meat
bull moose
bull neck
bull net
bull nettle
bull nose
bull oak
bull peep
bull pen
bull pine
bull plum
bull point
bull pool
bull press
bull pump
bull quartz
bull raid
bull rattle
bull redfish
bull ring
bull riveter
bull rope
bull session
bull shark
bull snake
bull stag
bull stretcher
bull terrier
bull the market
bull thistle
bull tongue
bull train
bull trout
bull wheel
bull's nose
bull's-eye
bull's-eye lantern
bull's-eye mirror
bull's-eye rot
bull's-eye squall
bull's-eyed
bull's-eyes
bull-
bull-bait
bull-baiter
bull-baiting
bull-bearing
bull-beggar
bull-bitch
bull-bragging
bull-browed
bull-dog
bull-dose
bull-faced
bull-fight
bull-frog
bull-fronted
bull-god
bull-grip
bull-headed
bull-horn
bull-horn acacia
bull-like
bull-man
bull-mastiff
bull-mouthed
bull-necked
bull-nosed
bull-nosed bow
bull-roarer
bull-roaring
bull-run
bull-running
bull-terrier
bull-tongue
bull-tongued
bull-tonguing
bull-trout
bull-voiced
bull-whack
bull-whip
bulla tympani
bullace grape
bulldog ant
bulldog bat
bulldog clip
bulldog courage
bulldog edition
bulldog forceps
bulldog pipe
bulldog spear
bulldog tenacity
bulldog wrench
bullen nail
bullen-bullen
bullet bolt
bullet catch
bullet compass
bullet hawk
bullet maker
bullet money
bullet screw
bullet shell
bullet tree
bump ball
bump heads
bump into
bump joint
bump off
bump start
bump up
bump-off
bump-start
bumper bag
bumper beam
bumper car
bumper crop
bumper guard
bumper jack
bumper spring
bumper sticker
bumping bag
bumping hammer
bumping post
bumping race
bumping-off
bumpy ash
bun fight
bun foot
bun ochra
bunch bean
bunch evergreen
bunch grape
bunch grass
bunch light
bunch oyster
bunch peanut
bunch pink
bunch plum
bunch together
bunch up
bunch-backed
bunch-word
buncher resonator
bunchflower family
bunchy top
bunco artist
bunco game
bunco steerer
bunder boat
bundle away
bundle branch
bundle branch block
bundle browning
bundle burial
bundle of His
bundle of isoglosses
bundle off
bundle out
bundle pillar
bundle sheath
bundle up
bundle work
bundle-rooted
bundu bashing
bung start
bung up
bung-full
bungalow tent
bunghole oil
bungup and bilge-free
bunj-bunj
bunk bed
bunk chain
bunk fence
bunker coal
bunker oil
bunko artist
bunko steerer
bunny brown
bunny girl
bunny hop
bunny hug
bunny rabbit
bunser burnner
bunt glut
bunter dog
bunting crow
bunting iron
bunting lark
buntline cloth
bunya-bunya
buon fresco
buon giorno
buona notte
buona sera
buono fresco
buoy boat
buoy up
buoy-tender
buoyancy force
buoyant force
buoyant market
buoyant mine
buoyed up
buoyed-up
buprestid beetle
bur artichoke
bur chervil
bur clover
bur cucumber
bur gherkin
bur grass
bur marigold
bur oak
bur parsley
bur reed
bur sage
bur thistle
bur vervain
bur-reed
buratto lace
burble point
burd-alone
burden adjustment
burden of care
burden of expenditure
burden of proof
burden stitch
burden the memory
burden the mind
burden the mind with
burden with
burdened with debt
burdened with sorrow
burdock grass
bureau company
bureau of investigation
bureau system
bureaucratic delay
burg-bryce
burgess-ship
burgh-english
burghal-penny
burglar alarm
burglary insurance
burial at sea
burial case
burial chamber
burial customs
burial ground
burial jar
burial mound
burial peal
burial place
burial service
burial tree
burial urn
burial vault
burial yard
burial-ground
burial-place
buried in
buried in oblivion
buried in thought
buried treasure
burlesque act
burlesque queen
burlesque show
burlesque theater
burly-boned
burly-faced
burly-headed
burmannia family
burmese cat
burn a hole in your pocket
burn at the stake
burn blue
burn daylight
burn down
burn in
burn in effigy
burn in your pocket
burn off
burn on
burn out
burn the candle at both ends
burn the midnight oil
burn to
burn to a cinder
burn to ashes
burn to death
burn to the ground
burn up
burn up your mortgage
burn with curiosity
burn with love
burn you up
burn your boats
burn your bridges
burn your fingers
burn yourself out
burn-
burn- ing
burn-beat
burn-nose
burn-nose bark
burn-the-wind
burn-up
burned down
burned out
burned to the ground
burned-out
burned-over
burner gas
burner-off
burnet bloodwort
burnet clover
burnet moth
burnet rose
burnet saxifrage
burning at the stake
burning bush
burning ember
burning ghat
burning glass
burning hot
burning issue
burning mirror
burning mountain
burning oil
burning out
burning pain
burning point
burning question
burning rage
burning shame
burning spot
burning up
burning with curiosity
burning with excitement
burning-bush
burning-glass
burning-in tool
burst into tears
burst like a bubble
burst like a thunderbolt
burst like a thunderclap
burst of applause
burst of laughter
burst of light
burst of rain
burst of speed
burst on the ear
burst out
burst out laughing
burst the bubble
burst upon
burst upon one
burst upon the view
burst with
burst with energy
burst with health
burst with laughter
burst-cow
bursting at the seams
bursting charge
bursting of the bubble
bursting out
bursting point
bursting strength
bursting to
bursting with happiness
bursting with health
bury the hatchet
bury the tomahawk
bury your head in the sand
bury yourself in
burying beetle
burying ground
burying place
burying-ground
burying-place
bus bar
bus boy
bus conductor
bus driver
bus girl
bus line
bus rod
bus shelter
bus stop
bush baby
bush basil
bush bean
bush broom
bush canary
bush cat
bush cinquefoil
bush clover
bush coat
bush country
bush cow
bush cranberry
bush disease
bush doe
bush dog
bush dove
bush flying
bush forest
bush fruit
bush goat
bush grape
bush hammer
bush harrow
bush hawk
bush honeysuckle
bush hook
bush house
bush huckleberry
bush jacket
bush lark
bush lawyer
bush league
bush leaguer
bush lot
bush maple
bush marrow
bush metal
bush morning-glory
bush nut
bush oak
bush oyster
bush parole
bush pea
bush pepper
bush pig
bush pilot
bush poppy
bush pumpkin
bush quail
bush rat
bush rice grass
bush robin
bush scythe
bush shrike
bush sickness
bush soul
bush swamp
bush tamarind
bush tea
bush telegraph
bush tit
bush trefoil
bush up
bush vetch
bush warbler
bush wren
bush-fighter
bush-grown
bush-haired
bush-hammer
bush-harrow
bush-head
bush-headed
bush-league
bush-ranger
bush-rope
bush-shrike
bush-skirted
bush-tailed
busheled iron
bushy aster
bushy-bearded
bushy-browed
bushy-eared
bushy-haired
bushy-headed
bushy-legged
bushy-tailed
bushy-whiskered
bushy-wigged
business English
business affairs
business agent
business arithmetic
business at hand
business car
business card
business chemistry
business college
business correspondence
business cycle
business deal
business dealings
business directory
business district
business double
business education
business end
business establishment
business ethics
business fluctuations
business index
business interruption insurance
business is business
business jet
business law
business leader
business letter
business life insurance
business machine
business paper
business pass
business relations
business reply card
business reply envelope
business school
business section
business suit
business transaction
business unionism
businessman's bounce
businessman's trip
busman's holiday
buss the clouds
busser-in
bust a gut
bust hammer
bust in
bust out
bust up
bust your ass
bust-up
bustamente furnace
bustard quail
bustle pipe
busy Lizzie
busy as a beaver
busy as a bee
busy bee
busy signal
busy yourself
busy yourself with
busy-brained
busy-fingered
busy-headed
busy-idle
busy-tongued
but breath and shadow
but for
but go at once
but good
but now
but piece
but then
but what
but-
but-and-ben
but-end
butacaine sulfate
butane lighter
butane stove
butane torch
butch haircut
butcher bird
butcher knife
butcher linen
butcher paper
butcher rayon
butcher shop
butcher's broom
butcher's meat
butcher's saw
butcher's-broom
butcher-bird
butcher-row
butea gum
butea kino
butea seed
butenedioic acid
butler's pantry
butler's sideboard
butts-and-bens
butt against
butt block
butt bolt
butt chain
butt chisel
butt cut
butt end
butt fitter
butt handler
butt haulier
butt head
butt hinge
butt in
butt joint
butt knuckle
butt leather
butt lifter
butt on
butt out
butt packer
butt plate
butt puller
butt roller
butt rot
butt saw
butt shaft
butt shooting
butt sling
butt strap
butt striker
butt weld
butt welding
butt-headed
butt-in
butt-stock
butter ale
butter basket
butter bean
butter blender
butter boat
butter carrier
butter chip
butter clam
butter color
butter cooler
butter cress
butter crock
butter cutter
butter daisy
butter dealer
butter dipper
butter dish
butter dock
butter duck
butter firkin
butter grinder
butter kit
butter knife
butter maker
butter merchant
butter mold
butter muslin
butter of arsenic
butter of zinc
butter oil
butter packer
butter pat
butter pear
butter pick
butter plate
butter plum
butter print
butter roller
butter salve
butter sauce
butter server
butter shop
butter spreader
butter tooth
butter tree
butter tub
butter up
butter weight
butter yellow
butter your bread on both sides
butter-and-egg man
butter-and-eggs
butter-billed
butter-box
butter-bump
butter-colored
butter-cutting
butter-fingered
butter-mouthed
butter-nut
butter-print
button blank
button borer
button bottomer
button burnisher
button cactus
button chrysanthemum
button clamper
button cleaner
button clover
button coverer
button cutter
button day
button die
button dipper
button disease
button driller
button ear
button fastener
button finisher
button flower
button gauge
button grass
button head
button hole
button lac
button maker
button making
button man
button mangrove
button mottler
button pearl
button piercer
button polisher
button quail
button sage
button saw
button scar
button seal
button sedge
button sewer
button shank
button shanker
button shoe
button shoes
button snakeroot
button snakeweed
button sorter
button stamper
button stick
button strike
button switch
button thistle
button tree
button turner
button up
button up your pockets
button willow
button worker
button your lip
button-covering
button-down
button-down collar
button-eared
button-fastening
button-headed
button-hold
button-holder
button-hole
button-sewing
button-shaped
button-slitting
button-tufting
buttoner-up
buttonhead rivet
buttonhole stitch
buttonwood shrub
buttress pier
buttress root
buttress thread
buttress tower
butts and bounds
butty lark
butyl alcohol
butyl aldehyde
butyl group
butyl oxalate
butyl radical
butyl-chloral
butylene group
butylene radical
butyr-
butyric acid
butyric ether
butyro-
butyryl group
butyryl radical
by a fluke
by a great deal
by a hair
by a jot
by a long chalk
by a long shot
by a long way
by a nose
by a piece of luck
by a side door
by a side wind
by a strong arm
by a whit
by accident
by acclamation
by agent
by airmail
by airplane
by all manner of means
by all means
by all odds
by an ace
by an iota
by and by
by and large
by any chance
by any manner of means
by any means
by any possibility
by auction
by authority of
by birth
by bits and pieces
by brute force
by bus
by cable
by cards
by catches
by categories
by chance
by choice
by command
by common consent
by common report
by comparison with
by consensus
by contraries
by cracky
by degrees
by design
by destiny
by dint of
by disposition
by divisions
by ear
by easy stages
by election
by express
by eyeball
by fair means or foul
by far
by fits
by fits and starts
by foot
by force
by force of arms
by force of habit
by forced marches
by freight
by general consent
by good fortune
by guess and by God
by half
by half measures
by halves
by hand
by hazard
by heart
by his lane
by hit and miss
by hook or by crook
by hook or crook
by horse
by ill hap
by ill luck
by inches
by inchmeal
by installments
by instinct
by interpretation
by intervals
by intuition
by itself
by jerks
by land
by law
by steamer
by storm
by stress of
by suffrage
by surprise
by telegraph
by temperament
by the act of
by the agency of
by the aid of
by the board
by the book
by the by
by the bye
by the clock
by the good offices of
by the lee
by the logic of character
by the logic of temperament
by the numbers
by the people
by the rules of logic
by the run
by the same sign
by the same token
by the side of
by the skin of your teeth
by the stern
by the sweat of your brow
by the way
by the way of
by the wind
by this time
by transfer
by trial and error
by tricks
by trolley
by turns
by two
by types
by use of
by virtue of
by virtue of mind-set
by vote
by water
by way of
by way of example
by way of hypothesis
by-view  
by-walk  
by-walking  
by-wash  
by-water  
by-way  
by-west  
by-wipe  
by-wood  
by-word  
by-work  
by-your-leave  
bye-blow  
bye-bye  
bye-byes  
bye-election  
bye-low  
bye-stake  
bye-turn  
bye-water  
bye-wood  
bygone days  
bygone times  
bypass burner  
bypass condenser  
bypass engine  
bypass ratio  
hypaths and crooked ways  
byre-man  
byre-men  
byword of reproach  
c & b  
c battery  
c clef  
c ration  
c'est autre chose  
c'est bien  
c'est ca  
c'est la guerre  
c'est la vie  
c'est selon  
c-axes  
c-axis  
c-horizon  
c-mitosis  
c/-  
cS  
ca canny
cabinet-maker
cable address
cable bend
cable buoy
cable car
cable crane
cable length
cable molding
cable railroad
cable railway
cable release
cable road
cable ship
cable stitch
cable television
cable tramway
cable's length
cable-car
cable-laid
cable-stitch
cabriole leg
ca-
cacao bean
cacao butter
cache-cache
 cachectic fever
 cachou de Laval
cack-handed
caco-
caco-zeal
cocoa bean
cacodyl group
 cacodyl radical
 cacodylic acid
 cacoethes scribendi
 cactus alkaloid
 cactus dahlia
 cactus family
 cactus geranium
 cactus wren
 caddie bag
 caddie car
 caddie cart
 caddis bait
 caddis case
 caddis fly
 caddis worm
 caddy spoon
cadency mark
cadet blue
cadet cloth
cadet gray
cadet grey
cadge a ride
cadmium bronze
cadmium carmine
cadmium cell
cadmium green
cadmium orange
cadmium poisoning
cadmium red
cadmium standard cell
cadmium sulfide
cadmium sulphate
cadmium sulphide
cadmium vermilion
cadmium yellow
cae-
caen-
caen-stone
caesarian section
caesium clock
cafe au lait
cafe chantant
cafe concert
cafe dansant
cafe noir
cafe society
cafe-society
caffoy paper
cag-handed
cage antenna
cage bird
cage zone melting
cager-on
caging knob
cahinca root
cahoun palm
caiman lizard
cairan law
caiper-callie
cairn tangle
cairn terrier
cairn-headed
caisson body
caisson disease
caisson limber
cajeput oil
caju rains
cajuput oil
cake baker
cake eater
cake flour
cake griddle
cake make-up
cake maker
cake pan
cake-eater
cake-mixing
caked breast
caked lac
cakes and ale
caking coal
calaba tree
calabar bean
calabar-bean
calabash nutmeg
calabash tree
calabur tree
calamander wood
calamine blue
calamine brass
calamint balm
calamity howler
calamondin orange
calamus oil
calc-
calc-aphanite
calc-sinter
calc-spar
calc-tufa
calc-tuff
calcaneocuboid ligament
calcareo-
calcareous tufa
calce-scence
calci-
calcined baryta
calcined lime
calcio-
calcium arsenate
calcium bisulphite
calcium carbide
calcium carbonate
calcium caseinate
calcium chloride
calcium creosotate
calcium cyanamide
calcium cyanide
calcium cyclamate
calcium cyclohexylsulfamate
calcium dibromobehenate
calcium fluoride
calcium hydrate
calcium hydroxide
calcium hypochlorite
calcium iodobehenate
calcium lactate
calcium lamp
calcium light
calcium nitrate
calcium oxide
calcium oxych
calcium oxychloride
calcium permanganate
calcium phosphate
calcium propionate
calcium soap
calcium sulfide
calcium sulphate
calcium sulphite
calco-
calculate on
calculate upon
calculate your position
calculated deception
calculated distortion
calculated risk
calculated to
calculating machine
calculus of differences
calculus of finite differences
calculus of individuals
calculus of pleasure
calculus of variations
caldo verde
caldron bottom
calendar art
calendar clock
calendar day
calendar maker
calendar month
calendar of bills
calendar stone
calendar watch
calendar year
calendar-making
calenture of the brain
calf feed
calf leather
calf love
calf's brains
calf's head
calf's liver
calf's tongue
calf's-foot
calf's-foot jelly
calf-skin
cali-
caliatour wood
caliber compass
calibrated scale
calibrating circuit
calibrating terminal
calibrating unit
calico ash
calico aster
calico bass
calico bug
calico bush
calico cat
calico clam
calico crab
calico flower
calico pony
calico printing
calico scale
calico tree
california laurel
california poppy
california rosebay
caliper compass
caliper gauge
caliper rule
caliph willow
calisaya bark
calk weld
call a break
call a halt
call a halt to
call a recess
call a spade a spade
call a strike
call all bets off
call an intermission
call attention to
call away
call back
call back yesterday
call bell
call bird
call box
call card
call down
call down curses on the head of
call down evil upon
call for
call for help
call forth
call girl
call heads or tails
call heaven to witness
call house
call in
call in question
call into being
call into existence
call into play
call into question
call it a day
call it quits
call letters
call loan
call mark
call market
call money
call names
call number
call of duty
call off
call on
call on the carpet
call on the phone
call on you for
call option
call out
call over
call price
call rate
call sign
call slip
call spirits from the vasty deep
call the play
call the roll
call the shots
call the signals
call the tune
call the turn
call time
call time-out
call to
call to account
call to active duty
call to arms
call to mind
call to notice
call to order
call to quarters
call to the colors
call to witness
call together
call up
call up spirits
call upon
call upon you for
call upon you to
call your bluff
call your own
call your shot
call your shots
call-back pay
call-board
call-down
call-fire
call-in pay
call-off
call-out
call-over
call-up
calla green
calla lily
calla-
callable bond
callable securities
called cedra wood
called for
called home
called on
calli-
calling a spade a spade
calling before the mind's eye
calling card
calling crab
calling forth
calling party
calling to the mind's eye
calling-down
calling-over
calliope hummingbird
calliper compasses
calliper rule
calliper splint Med
callis sand
callis-sand
callithumpian band
callosoal convolution
callosoal gyrus
calm acceptance
calm and free
calm as a mill pond
calm before the storm
calm disposition
calm down
calm mind
calm of mind
calm weather
calm yourself
calm-eyed
calm-minded
calm-throated
calming hand
calo-
calomel electrode
calore sore
calorie chart
calorie counter
calorie engine
calorie-counting
calorific value
calorimeter bomb
calumet dance
calvary cross
calyx drill
calyx spray
calyx teeth
calyx tube
cam chain
cam cleat
cam contactor
cam engine
cam press
cam squeezer
cam switch
cam wheel
cam-contactor switch
cam-cutting machine
cam-wood
camadula seed
camara nutmeg
camass rat
camb sizer
cambe wood
camber arch
camber beam
camber piece
camber slip
camber-keeled
camberwell beauty
cambric grass
cambric muslin
cambric tea
camel back
camel caravan
camel driver
camel grass
camel hay
camel insect
camel litter
camel saddle
camel's hair
camel's hair rug
camel's-hair
camel-backed
camel-faced
camel-grazing
camel-hair
camel-haired
camel-kneed
camel-shaped
camel-yarn
camelback truss
cameline oil
camp-meeting
camp-out
camp-shedding
camp-shot
camp-site
campaign book
campaign button
campaign chair
campaign chest
campaign commitments
campaign contribution
campaign dinner
campaign for
campaign fund
campaign hat
campaign medal
campaign oratory
campaign promises
campaign ribbon
campaign wig
campeachy wood
campernelle jonquil
campfire girl
camph-
camphane group
camphor ball
camphor glass
camphor gum
camphor ice
camphor laurel
camphor liniment
camphor oil
camphor tree
camphor water
camphor weed
camphorated oil
campi santi
camping bus
camping ground
camping site
campo pea
campo santo
campos santos
campus shoes
campus university
camra stylo
can buoy
can burnisher
can calm
can capper
can carrier
can coverer
can crimper
can do
can faucet
can filler
can floater
can frame
can header
can hook
can it
can it be
can jacket
can key
can liner
can not
can of worms
can opener
can plug
can press
can sealer
can solderer
can sterilizer
can such things be
can system
can washer
can you beat that
can you feature that
can't be avoided
can't be helped
can't complain
can't help
can't keep from
can-beading
can-boxing
can-buoy
can-burnishing
can-can
can-capping
can-cleaning
can-closing
can-crimping
can-dock
can-filling
can-flanging
can-heading
can-hook
can-labeling
can-lacquering
can-lining
can-marking
can-opener
can-opening
can-polishing
can-quaffing
can-salting
can-scoring
can-sealing
can-seaming
can-slitting
can-soldering
can-squeezing
can-stamping
can-sterilizing
can-testing
can-washing
can-weighing
can-wiping
can-wrapping
cana brava
cana espina
canada balsam
canada lynx
canada thistle
canadian french
canal barge
canal boat
canal cell
canal coal
canal lock
canal ray
canal rays
canal system
canal-bone
canal-built
cananga oil
canard sauvage
canary bird
canary creeper
canary flower
canary glass
canary grass
canary moss
canary nut
candle paper
 candle plant
 candle power
 candle rush
 candle shade
 candle snuff
 candle snuffer
 candle tree
 candle tube
 candle wicking
 candle-beam
 candle-bearing
 candle-branch
 candle-dipper
 candle-end
 candle-foot
 candle-holder
 candle-hour
 candle-lighter
 candle-meter
 candle-rent
 candle-shaped
 candle-snuff
 candle-snuff fungus
 candle-tapering
 candle-tree
 candle-waster
 candle-wood
 candleberry bark
 candleberry myrtle
 candleberry tree
 candlenut oil
 candlestick lily
 candlewick bedspread
 candlewood pine
 candy cane
 candy carrot
 candy corn
 candy grass
 candy kitchen
 candy pull
 candy pulling
 candy store
 candy stripe
 candy striper
 candy thermometer
 candy-striped
 cane apple
cane ash
 cane blight
 cane borer
 cane bottoming
 cane brimstone
 cane cactus
 cane chair
 cane crusher
 cane cutter
 cane field
 cane fruit
 cane gall
 cane grass
 cane gun
 cane killer
 cane knife
 cane mill
 cane osier
 cane palm
 cane piece
 cane press
 cane rat
 cane reed
 cane rush
 cane rust
 cane seat
 cane seating
 cane splicer
 cane sugar
 cane syrup
 cane trash
 cane weaver
 cane webbing
 cane withy
 cane-backed
 cane-bottomed
 cane-phorus
 cane-seated
 canebrake rattler
 canebrake rattlesnake
 canella alba
 canella bark
 canella-bark family
 cangica-wood
 canicola fever
 canicular days
 canine appetite
 canine distemper
canine leptospirosis
canine madness
canine tooth
canine typhus
canis major
canis minor
canister shot
canker bloom
canker blossom
canker lettuce
canker rash
canker rose
canker sore
canker violet
canker-bit
canker-bitten
canker-eaten
canker-hearted
canker-mouthed
canker-toothed
cankerworm of care
canna family
canna-down
cannabis indica
cannabis resin
canned foods
canned goods
canned heat
canned show
cannel coal
cannel-bone
cannon ball
cannon bit
cannon bone
cannon cracker
cannon curl
cannon fodder
cannon metal
cannon off
cannon pinion
cannon shot
cannon stove
cannon-ball
cannon-ball fruit
cannon-ball tree
cannon-proof
cannon-royal
cannon-shot
cannonball express
cannot choose but
cannot do otherwise
cannot help but
canoe adz
canoe birch
canoe burial
canoe cedar
canoe gum
canoe tent
canoe yacht
canoe yawl
canon bit
canon form
canon law
canon lawyer
canon regular
canonical age
canonical books
canonical form
canonical hour
canonical hours
canonical prayers
canonical writings
canonized mortal
canons regular
canopic jar
canopy of heaven
canopy switch
cant across
cant block
cant body
cant chisel
cant dog
cant file
cant frame
cant hook
cant molding
cant purchase
cant ribband
cant round
cant spar
cant strip
cant timber
canted column
canterbury bell
cantharid luster
cantharides cerate
cantilever bridge
cantilever foundation
cantilever spring
canting arms
canting coat
canting hypocrite
canting quoin
cantle bar
canto fermo
cantocanto fermo
canton blue
canton crepe
canton flannel
canton ginger
cantorial side
cantus figuratus
cantus firmus
cantus planus
canvas baster
canvas board
canvas dam
canvas dresser
canvas maker
canvas primer
canvas quilter
canvas shoe
canvas stitch
canvas stitcher
canvas stitching
canvas work
canvas worker
canvas-back
canvas-covered
canvasback duck
canyon gooseberry
canyon grape
canyon live oak
canyon wind
canyon wren
cap and bells
cap and gown
cap bolt
cap cell
cap cloud
cap flashing
cap fungus
cap gun
cap in hand
capital surplus
capital transfer tax
capitalist economy
capitalistic economy
capitalistic system
capitalization issue
capitalize on
capitate bone
capitation grant
capitation tax
capo tosto
capoor cutchery
cappa magna
capped elbow
capped hock
capped pawn
capping fee
capping plane
capple-faced
capric acid
capricorn beetle
caprific wasp
caproic acid
caprylic acid
capsicum wool
capsizing moment
capstan bar
capstan bolt
capstan lathe
capstan screw
capstan table
capstan tool rest
capstan-headed
capsuli-
captain ball
captain general
captain glass
captain lieutenant
captain of industry
captain’s biscuit
captain’s chair
captain’s mast
captain’s table
captain’s walk
captain-generalcy
captain-lieutenant
captaincy general
captains general
car sickness
car starter
car step
car track
car wash
car wheel
car wheeler
car-borne
car-dumping
car-mile
car-replacing
car-tunnel kiln
caramel cream
caramel cutter
carap nut
carap oil
carap tree
carap wood
carapa nut
carapa oil
carapa tree
carapa wood
carat grain
carat grains
caravan boiler
caraway oil
caraway seed
caraway seeds
caraway-seed fern
carb-
carbamate insecticide
carbamic acid
carbazotic acid
carbo-
carbo-hydrate
carbocyclic compound
carbolic acid
carbolic oil
carbon 14
carbon arc
carbon bisulfide
carbon bisulphide
carbon black
carbon copy
carbon cycle
carbon dating
carbon diamond
carbon dichloride
carbon dioxide
carbon dioxide snow
carbon disulfide
carbon disulphide
carbon fibre
carbon flame
carbon knock
carbon lamp
carbon light
carbon microphone
carbon monoxide
carbon oxide
carbon oxychloride
carbon paper
carbon paper n
carbon pencil
carbon point
carbon process
carbon silicide
carbon spot
carbon star
carbon steel
carbon sulphochloride
carbon telephone
carbon tet
carbon tetrachloride
carbon tissue
carbon transfer
carbon transmitter
carbon trichloride
carbon tube
carbon- dating
carbon-14 dating
carbon-dioxide foam
carbon-dioxide recorder
carbon-dioxide snow
carbonated water
carbonic acid
carbonic acid gas
carbonic anhydride
carbonic-acid gas
carbonium ion
carbonization process
carbonyl chloride
carbonyl group
carbonyl radical
carborundum cloth
carboxyl group
carboxyl radical
carboxylic acid
carbro process
carbureted-hydrogen gas
carburetor altitude control
carcass beef
carcass flooring
carcass roofing
carcin-
carcinogenic substance
card bends
card brusher
card case
card catalog
card catalogue
card cheating
card cleaner
card cloth
card clothier
card clothing
card Compass
card cutter
card doffer
card drawer
card dresser
card end
card ender
card feeder
card fettler
card field
card file
card filler
card game
card games
card gatherer
card grinder
card index
card ledger
card magnetic compass
card measurer
card parer
card punch
card reader
card roller
card setter
card sorter
card strip
card stripper
card table
card teasel
card tenter
card thistle
card tray
card up your sleeve
card vote
card voting
card winder
card wire
card writer
card-carrier
card-carrying
card-carrying Communist
card-carrying member
card-counting
card-cut
card-cutting
card-devoted
card-index
card-perforating
card-printing
card-setting machine
card-sorting
cardamom oil
carder bee
cardi-
cardiac arrest
cardiac cycle
cardiac epilepsy
cardiac glucoside
cardiac glycoside
cardiac hormone
cardiac infarction
cardiac insufficiency
cardiac neurosis
cardiac output
cardiac pacemaker
cardiac shock
cardiac stenosis
cardiac tamponade
cardiac thrombosis
cardigan jacket
cardigan sweater
cardinal archbishop
cardinal beetle
cardinal bird
cardinal bishop
cardinal climber
cardinal cloth
cardinal deacon
cardinal dean
cardinal fish
cardinal flower
cardinal grosbeak
cardinal humour
cardinal number
cardinal numeral
cardinal point
cardinal points
cardinal priest
cardinal red
cardinal system
cardinal virtue
cardinal virtues
cardinal vowel
cardinal’s hat
cardinal-bishop
cardinal-deacon
cardinal-flower
cardinal-priest
cardinal-red
carding hair
carding machine
carding thistle
carding wool
cardio-
cardio-aortic
cardio-inhibitory
cardiogenic shock
cardioid microphone
cardiovascular disease
cards and spades
care a snap
care a snap of your fingers for
care about
care for
care for truth
care naught for
care nothing about
care nothing for
care of souls
care sunday
care-bewitching
care-bringing
care-charmer Sleep
care-charming
care-cloth
care-crazed
care-crossed
care-defying
care-dispelling
care-eluding
care-encumbered
care-fraught
care-killing
care-laden
care-lined
care-scorched
care-taker
care-tired
care-tuned
care-wounded
career building
career diplomat
career girl
career man
career politics
career soldiers
careers master
careful consideration
carefully ignore
careless abandon
caress the ear
cargo boat
cargo carrier
cargo checker
cargo clerk
cargo cluster
cargo coal
cargo cult
cargo dock
cargo handler
cargo lighter
cargo liner
cargo mast
cargo mill
cargo plane
cargo reflector
cargo ship
cargo transport
cargo worker
caribou moss
caricature plant
carpenter bird
carpenter grass
carpenter moth
carpenter's hammer
carpenter's square
carpet alterer
carpet beating
carpet bed
carpet bedding
carpet beetle
carpet binding
carpet bombing
carpet braid
carpet broom
carpet brush
carpet bug
carpet chair
carpet cleaner
carpet cleaning
carpet dance
carpet dealer
carpet drive
carpet dyer
carpet fastener
carpet filler
carpet fillings
carpet finisher
carpet fitter
carpet fixer
carpet folder
carpet grass
carpet hemmer
carpet knight
carpet lining
carpet loom
carpet machinist
carpet maker
carpet mill
carpet moth
carpet needle
carpet opener
carpet picker
carpet pink
carpet planner
carpet printer
carpet printing
carpet rags
carpet renovator
carpet repairer
carpet rod
carpet sewer
carpet shark
carpet shell
carpet shredder
carpet slipper
carpet snake
carpet sorter
carpet stitch
carpet stretcher
carpet sweeper
carpet tack
carpet thread
carpet twisting
carpet weaver
carpet weaving
carpet wool
carpet yarn
carpet-bag
carpet-bagger
carpet-covered
carpet-cut
carpet-knight
carpet-smooth
carpet-sweeper
carpetweed family
carpo-
carpo-olecranal
carriage apron
carriage blind
carriage body
carriage bolt
carriage boot
carriage bow
carriage bridge
carriage builder
carriage building
carriage cleaner
carriage cleaning
carriage company
carriage coupler
carriage coupling
carriage dog
carriage drive
carriage driver
carriage entrance
carriage forward
carriage free
carriage gate
carriage guard
carriage harness
carriage head
carriage horse
carriage house
carriage hub
carriage iron
carriage ironer
carriage joiner
carriage lady
carriage lamp
carriage lampman
carriage maker
carriage making
carriage paid
carriage painter
carriage piece
carriage pole
carriage porch
carriage rider
carriage road
carriage searcher
carriage seat
carriage setter
carriage shackle
carriage shaft
carriage shed
carriage spring
carriage springer
carriage step
carriage strap
carriage top
carriage trade
carriage trimmer
carriage trimming
carriage washer
carriage way
carriage wheel
carriage works
carriage wrench
carriage-free
carrick bend
carrick bitt
carrick bitts
carrick head
carried away
carried by acclamation
carrier amplifier
carrier bag
carrier courier
carrier fighter
carrier frequency
carrier pigeon
carrier ring
carrier shell
carrier snail
carrier suppression
carrier wave
carrier-based plane
carrier-current system
carrier-free
carrier-pigeon
carriers of
carrion beetle
carrion buzzard
carrion crow
carrion flower
carrion fly
carrion fungus
carrion hawk
carron oil
carrot beetle
carrot eating
carrot family
carrot fern
carrot orange
carrot pudding
carrot red
carrot rust fly
carrot soft rot
carrot tree
carrot-colored
carrot-head
carrot-headed
carrot-pated
carrot-shaped
carrot-top
carry a card
carry a tune
carry all before one
carry all before you
carry arms
carry authority
carry away
carry back
carry back in recollection
carry bag
carry by storm
carry coals to Newcastle
carry conviction
carry forward
carry in your thoughts
carry into effect
carry into execution
carry it
carry lee helm
carry off
carry on
carry on a business
carry on a conversation
carry on a propaganda
carry on a trade
carry on an inquiry
carry on business
carry on hostilities
carry on over
carry on something scandalous
carry on war
carry on your books
carry out
carry out the anchor
carry over
carry sail
carry the
carry the ball
carry the banner of
carry the day
carry the mail
carry through
carry to
carry to completion
carry to excess
carry too far
carry too much sail
carry weather helm
carry weight
carry you off your feet
carry young
carry your point
carry your thoughts back
carry yourself
carry-all
carry-back
carry-forward
carry-in
carry-log
carry-on
carry-over
carry-tale
carrying a fetus
carrying an embryo
carrying arms
carrying capacity
carrying charge
carrying cost
carrying distance
carrying out
carrying place
carrying through
carrying trade
carrying-on
carrying-out
carryings-on
carse deposit
cart aver
cart away
cart driver
cart horse
cart ladder
cart leather
cart maker
cart off
cart road
cart rope
cart track
cart wheel
cart whip
cart-rutted
cart-track plant
cart-wheel
cartage contractor
carte blanche
carte d'entrée
carte de visite
carte du jour
carte-de-visite
cartel ship
cartes blanches
cartes de visite
cartes du jour
cartesian coordinate
cartilage bone
cartilage cell
cartilage pit
cartilaginous fish
cartilaginous quitter
carton of cigarettes
carton-pierre
cartridge annealer
cartridge bag
cartridge belt
cartridge blocker
cartridge box
cartridge brass
cartridge buff
cartridge case
cartridge clip
cartridge filler
cartridge fuse
cartridge gauge
cartridge heater
cartridge loader
cartridge loading
cartridge maker
cartridge making
cartridge paper
cartridge pen
cartridge primer
cartridge priming
carve out
carve up
carve your way
carvel joint
carvel work
carvel-built
carvel-planked
carving fork
carving knife
cary-
caryo-
casaba melon
casagha pine
casca bark
cascade amplification
cascade connection
cascade control
cascade converter
cascade method
cascade screen
cascade system
cascade transformer
cascade-connect
cascara amarga
cascara buckthorn
cascara sagrada
cascarilla bark
cascarilla oil
case bay
case binding
case bolt
case bottle
case card
case count
case ending
case furniture
case glass
case goods
case grammar
case gun
case hammer
case harden
case hardening
case history
case in point
case in question
case knife
case law
case lawyer
case made
case method
case of need
case of nerves
case oil
case phrase
case record
case shot
case springs
case stake
case study
case system
case tablet
case the
case work
case worker
case-bearer
case-bound
case-harden
case-hardened
case-hardened steel
case-knife
case-shot
case-weed
case-worker
case-worm
cased book
cased glass
casein glue
casein paint
casein plastic
casemaking clothes moth
casement cloth
casement door
casement window
caser-in
cash account
cash advance
cash assets
cash audit
cash basis
cash capital
cash carrier
cash clerk
cash contract
cash credit
cash crop
cash customer
cash desk
cash discount
cash dividend
cash down
cash drawer
cash flow
cash in
cash in hand
cash in on
cash in your checks
cash in your chips
cash journal
cash letter
cash line
cash money
cash on delivery
cash on the barrelhead
cash on the nail
- cash payment
- cash price
- cash purchase
- cash railway
- cash ratio
- cash register
- cash remittance
- cash reserves
- cash sale
- cash store
- cash supply
- cash surrender value
- cash tenant
- cash terms
- cash up
- cash value
- cash-and-carry
- cash-book
- cash-refund annuity
- cashed up
- cashew apple
- cashew bird
- cashew family
- cashew lake
- cashew nut
- cashier's check
- cashmere shawl
- cashmere sweater
- casing cutter
- casing dog
- casing head
- casing knife
- casing nail
- casing shoe
- casing spear
- casing splitter
- casing spool
- casing swab
- casing-head gas
- casing-head gasoline
- casing-in
- casinghead gas
- casino pink
- cask marker
- cask-shaped
- cassava wood
- casse paper
- casse-tete
casserole fish
cassia bark
cassia bud
cassia fistula
cassia flask
cassia lignea
cassia nut
cassia oil
cassia pod
cassia pods
cassia pulp
cassia tree
cassia-bark tree
cassia-stick tree
cassie paper
cassiopeia's chair
cassowary tree
cast a ballot
cast a glance
cast a gloom over
cast a gloom upon
cast a horoscope
cast a laggen-gird
cast a nativity
cast a pall upon
cast a reproach upon
cast a shadow
cast a slur on
cast a slur upon
cast a spell
cast a traverse
cast about
cast about for
cast anchor
cast aside
cast aspersions on
cast at
cast away
cast back
cast blame upon
cast coquettish glances
cast down
cast envious eyes
cast forth
cast gear
cast in a different mold
cast in prison
cast in the eye
cast in the same mold
cast in your lot with
cast in your teeth
cast into hell
cast iron
cast light upon
cast loose
cast lots
cast naked upon the naked earth
cast of characters
cast of countenance
cast of the dice
cast off
cast on
cast out
cast out devils
cast pearls before swine
cast plastic
cast plow
cast reflection upon
cast reflections on
cast reproach upon
cast scrap
cast sheep's eyes at
cast steel
cast the evil eye
cast the eyes back
cast the eyes on
cast the eyes over
cast the eyes upon
cast the first stone
cast the gorge
cast the lead
cast their shadows before
cast to the dogs
cast to the winds
cast up
cast up accounts
cast your bread upon the waters
cast your eye
cast your eyes down
cast your fortune
cast your hook
cast your net
cast your vote
cast your vote for
cast-back
cast-by
cast-iron
cast-iron-plant
cast-me-down
cast-off
cast-steel
cast-weld
castana nut
caste mark
caste-ridden
castellated beam
castellated nut
caster sugar
caster-off
castile soap
casting away
casting bottle
casting box
casting couch
casting counter
casting director
casting down
casting line
casting lots
casting net
casting on
casting table
casting voice
casting vote
casting wax
casting weight
casting wheel
casting your ballot
castle ditch
castle earth
castle gate
castle gilliflower
castle in Spain
castle in spain
castle in the air
castle in the skies
castle in the sky
castle nut
castle top
castle town
castle wall
castle-builder
castle-building
castle-built
castle-butressed
castle-crowned
castle-guard
castle-guarded
castoff skin
castor aralia
castor bean
castor cake
castor gray
castor oil
castor pomace
castor seed
castor sugar
castor tree
castor wheel
castor-bean
castor-bean meal
castor-bean tick
castor-oil plant
castration complex
castrator mine
casual acquaintance
casual clothes
casual discovery
casual dress
casual house
casual laborer
casual remark
casual suit
casual ward
casual water
casualty insurance
casualty list
casualty ward
casualty-evacuation plane
casus belli
cat and dog
cat and mouse
cat and rat
cat around
cat back
cat beam
cat block
cat brier
cat burglar
cat castle
cat chain
cat cracker
cat cradle
cat davit
cat distemper
cat fever
cat fit
cat flea
cat food
cat grape
cat hair
cat ham
cat haw
cat hip
cat hole
cat hook
cat house
cat ice
cat ladder
cat man
cat nap
cat o'mountain
cat owl
cat pea
cat pine
cat plague
cat purchase
cat rig
cat salt
cat schooner
cat shark
cat silver
cat sleep
cat snake
cat spruce
cat squirrel
cat stopper
cat strip
cat suit
cat tackle
cat the anchor
cat thyme
cat tree
cat typhoid
cat whisker
cat yawl
cat’s cradle
cat’s ear
cat’s foot
cat’s paw
cat’s tail
cat’s whisker
cat’s whiskers
cat’s-claw
cat’s-cradle
cat’s-ear
cat’s-eye
cat’s-eyes
cat’s-feet
cat’s-foot
cat’s-head
cat’s-paw
cat’s-tail
cat’s-tail speedwell
cat-a-mountain
cat-and-dog
cat-and-dog life
cat-and-dog weather
cat-and-doggish
cat-bed
cat-built
cat-chop
cat-clover
cat-eyed
cat-fish
cat-foot
cat-hammed
cat-harpin
cat-harpings
cat-head
cat-hole
cat-lap
cat-like
cat-locks
cat-o’-mountain
cat-o’-nine-tails
cat-o-nine-tails
cat-rigged
cat-scratch disease
cat-scratch fever
cat-stick
cat-train
cat-whistles
cat-witted
cata-
cataleptic hypnosis
catalog buying
catalog card
catalog goods
catalog selling
catalogue raisonn
catalogue raisonne
catalpa sphinx
catalytic agent
catalytic converter
catalytic cracker
catamenial discharge
catapult flight
catapult fruit
cataract bird
catarrhal fever
catarrhal inflammation
catarrhal pneumonia
catastrophe hazard
catastrophe reserve
catastrophe risk
catastrophic change
catatonic schizophrenia
catatonic stupor
catawba rhododendron
catawba rose bay
catawba tree
catbird grape
catbird seat
catch a Tartar
catch a crab
catch a glimpse of
catch a likeness
catch a lobster
catch a ride
catch a smell of
catch a train
catch a turn
catch a wink
catch as catch can
catch asleep at the switch
catch at
catch at straws
catch basin
catch boom
catch box
catch cold
catch colt
catch crop
catch cropping
catch drain
catch fire
catch flat-footed
catch hell
catch hold of
catch in
catch in a trap
catch in the act
catch it
catch it in the neck
catch line
catch meadow
catch napping
catch off base
catch off side
catch off your guard
catch off-guard
catch on
catch on fire
catch on to
catch out
catch phrase
catch pit
catch points
catch question
catch red-handed
catch short
catch siding
catch sight of
catch stitch
catch the attention
catch the drift
catch the ear
catch the eye
catch the flame
catch the infection
catch the scent of
catch the thoughts
catch title
catch tripping
catch unawares
catch up
catch up in
catch up with
catch with your pants down
catch you flatfooted
catch your breath
catch your death
catch your death of cold
cathedral chimes

cathedral chimes

cathedral church

cathedral close

cathedral dome

cathedral glass

cathedral music

cathedral service

cathedral tower

cathedral town

cathedral walk

cathedral-like

catherine wheel

catheter fever

cathode current

cathode dark space

cathode drop

cathode glow

cathode luminescence

cathode particle

cathode ray

cathode rays

cathode-ray oscillograph

cathode-ray oscilloscope

cathode-ray tube

cathodic protection

cathodo-luminescent

catholico-
cation detergent

cation-active

cationic detergent

catjang pea

cats and dogs

cattail family

cattail flag

cattail fungus

cattail grass

cattail millet

cattail rush

cattle boat

cattle breeder

cattle breeding

cattle buyer

cattle camp

cattle car

cattle crossing

cattle dealer

cattle dehorner

cattle dog
cattle drover
cattle egret
cattle farcy
cattle farm
cattle farmer
cattle feed
cattle feeder
cattle feeding
cattle float
cattle floater
cattle grub
cattle guard
cattle horn
cattle leader
cattle lifting
cattle loader
cattle louse
cattle mange
cattle marker
cattle marking
cattle pass
cattle pen
cattle plague
cattle pump
cattle raising
cattle ranch
cattle range
cattle run
cattle rustler
cattle rustling
cattle scab
cattle ship
cattle shipper
cattle show
cattle stall
cattle station
cattle stealing
cattle steamer
cattle tender
cattle thief
cattle tick
cattle trade
cattle trader
cattle train
cattle truck
cattle wire
cattle-grid
cattle-guard
cause dislike
cause for alarm
cause in court
cause list
cause pain
cause the mind to stray
cause the mind to wander
cause to
cause to believe
cause to go out of your way
cause to resign
cause trouble
cause trouble for
cause unpleasantness
cause vertigo
cause-and-effect
caused by
causeway grass
causing cause
caustic alcohol
caustic baryta
caustic critic
caustic curve
caustic lime
caustic potash
caustic remark
caustic soda
caustic surface
cautions card
cautions light
cautions money
cavalier battery
cavalier projection
cavalier servant
cavalier servente
cavalier servitude
cavaliere servente
cavalierei serventi
cavalry bone
cavalry horse
cavalry saddle
cavalry tactics
cavalry twill
cave art
cave bear
cave beetle
cave canem
cave cricket
cave drawing
cave dweller
cave dwelling
cave earth
cave fish
cave hunter
cave hyena
cave in
cave lion
cave man
cave of Trophonius
cave of despair
cave painting
cave pearl
cave period
cave rat
cave right
cave tomb
cave-guarded
cave-in
cave-keeping
cave-lodged
cave-loving
caveat emptor
cavi-relievi
cavi-rilievi
caviar to the general
caviare to the general
caving system
cavity block
cavity magnetron
cavity resonator
cavity source
cavity wall
caviuna wood
cavo-relievo
cavo-relievos
cavo-rilievo
cayenne pepper
cayenne whist
cease fire
cease hostilities
cease not
cease resistance
cease to be
cease to exist
cease to live
cease to use
cease-and-desist order
cease-fire
cecropia moth
cedant arma togae
cedar apple
cedar bird
cedar camphor
cedar chest
cedar elm
cedar grass
cedar green
cedar leaf
cedar maker
cedar manna
cedar moss
cedar nut
cedar of Lebanon
cedar pine
cedar rust
cedar swamp
cedar tree
cedar waxwing
cedar-brown
cedar-colored
cedarwood oil
ced-
cee spring
ceiling balloon
ceiling board
ceiling fixture
ceiling floor
ceiling hook
ceiling joist
ceiling light
ceiling piece
ceiling plate
ceiling price
ceiling projector
ceiling unlimited
ceiling zero
ceiling-height indicator
ceilinged roof
cela saute aux yeux
cela va sans dire
celadon green
celandine green
celandine poppy
celebrate Mass
celery blight
celery cabbage
celery family
celery grass
celery mosaic
celery oil
celery pine
celery root
celery salt
celery seed
celery yellows
celery-leaved
celery-topped
celestial being
celestial beings
celestial blue
celestial body
celestial chart
celestial crown
celestial equator
celestial globe
celestial guidance
celestial hierarchy
celestial horizon
celestial kingdom
celestial latitude
celestial longitude
celestial marriage
celestial mechanics
celestial meridian
celestial navigation
celestial pole
celestial spaces
celestial sphere
celestial throne
celiac disease
celiac plexus
cell body
cell bridge
cell cavity
cell charger
cell cleavage
cell count
cell cup
cell division
cell doctrine
cell family
cell house
cell kernel
cell membrane
cell multiplication
cell nest
cell nucleus
cell organ
cell physiology
cell plasm
cell plate
cell product
cell proliferation
cell sap
cell substance
cell tester
cell theory
cell wall
cell-blockade
cell-like
cell-shaped
cellar book
cellar door
cellar pipe
cellar sash
cellophane tape
cellular kite
cellular tissue
cello-
cellulocutaneous plague
celluloid collar
cellulose acetate
cellulose ether
cellulose flour
cellulose nitrate
cellulose plastic
cellulose triacetate
cellulose xanthate
celo-navigation
celtic cross
celto-
cembal damore
cembra nut
cembra pine
cement a union
cement conveyer
cement disease
cement dusting
cement filler
cement gauger
cement gland
cement grinder
cement hardener
cement kiln
cement layer
cement maker
cement mill
cement miller
cement mixer
cement of friendship
cement organ
cement paver
cement pulverizer
cement rod
cement sprayer
cement steel
cement tester
cement-coated
cement-covered
cement-drying
cement-faced
cement-forming
cement-lined
cement-lining
cement-temper
cen-cendres blue
censer bearer
censer box
censer pot
census report
census returns
census taker
census tract
centauro-triton
center about
center anchor
center back
center bit
center circle
center drill
center field
center fielder
center gambit
center gauge
center halfback
center in
center jam
center jump
center line
center mold
center of action
center of activity
center of area
center of attention
center of attraction
center of authority
center of buoyancy
center of consciousness
center of curvature
center of displacement
center of effort
center of figure
center of flotation
center of gravity
center of immersed bulk
center of immersion
center of inertia
center of interest
center of inversion
center of lateral resistance
center of life
center of manufacture
center of mass
center of origin
center of oscillation
center of ossification
center of percussion
center of pressure
center of projection
center of similitude
center of suspension
center of symmetry
center of the mind
center of volume
center on
center punch
center reamer
center round
center seal
center spider
center spread
center square
center staff
center tester
center valve
center wheel
center zone
center-fire
center-freeze system
center-of-pressure coefficiency
center-sawed
center-second
centerboard damper
centerboard trunk
centered dot
centerhole guitar
centering machine
centering square
centi-
centigrade scale
centigrade thermal unit
centigrade thermometer
centimeter-gram
centimeter-gram-second
centimetre-gram-second
centimetre-gramme-second
centipede grass
centipede legs
centipede locomotive
centipede plant
centr-
central administration
central angle
central apparatus
central bank
central body
central city
central cylinder
central dogma
central eclipse
central heating
central limit theorem
central moment
central nervous system
central office
central position
central processing unit
central projection
central reserve
central school
central station
central sulcus
central tendency
certificate of origin
certificate of proficiency
certificate of registry
certificate of stock
certified check
certified copy
certified mail
certified milk
certified public accountant
certified teacher
cerulean blue
cerulean warbler
ceruleo-
cervical smear
cervico-
cervico-occipital
cervico-orbicular
ceryl alcohol
cessation of combat
cessation of life
cessio bonorum
cestui que trust
cestui que use
cet-
cetane number
cetane rating
cetera desunt
ceteris paribus
cetyl alcohol
cetyl palmitate
cetlyc acid
cetyl alcohol
cevitamic acid
cgs units
cha-cha
cha-cha-cha
cha-chaed
cha-chaing
cha-chas
chac-chac
chack-bird
chafe at the bit
chafe iron
chafe-wax
chaff scale
chaff-flower
chaff-weed
chaffer whale
chain link fence
chain linker
chain locker
chain mail
chain maker
chain mark
chain measure
chain mechanism
chain of being
chain of cause and effect
chain of circumstances
chain of command
chain of evidence
chain of ideas
chain of office
chain of thought
chain pickerel
chain pillar
chain pin
chain pipe
chain plate
chain printer
chain pulley
chain pump
chain reaction
chain reactor
chain reasoning
chain reflex
chain riveting
chain rule
chain saw
chain shot
chain smoker
chain smoking
chain snake
chain splice
chain stitch
chain store
chain survey
chain syllogism
chain tape
chain tongs
chain towing
chain twist
chain victory to your car
chain wale
chain warper
chain welder
chalk-eating
chalk-eyed
chalk-plate process
chalk-stone
chalk-talk
chalk-white
challenge comparison
challenge cup
chamber acid
chamber barrister
chamber blast
chamber chorus
chamber composer
chamber concert
chamber council
chamber counsel
chamber fellow
chamber filter
chamber gas
chamber horse
chamber kiln
chamber master
chamber mastering
chamber music
chamber of commerce
chamber of horrors
chamber opera
chamber orchestra
chamber organ
chamber pot
chamber practice
chamber process
chamber sonata
chamber stool
chamber study
chamber train
chamber vessel
chamber-deacon
chamber-master
chambered nautilus
chameleon grass
chameleon mineral
chameleon tree frog
chamfer bit
chamfer plane
chamois cloth
chamois leather
chamois skin
chamois yellow
champ at the bit
champaca oil
champagne cider
champagne cocktail
champagne cup
champaign country
champing at the bit
champion oak
champion tooth
champlive enamel
chance arrival
chance at odds
chance bairn
chance child
chance discovery
chance event
chance hit
chance it
chance on
chance upon
chance-dropped
chance-hit
chance-hurt
chance-medley
chance-met
chance-poised
chance-shot
chance-sown
chance-taken
chance-won
chancel organ
chancel screen
chancel table
chancellor of the exchequer
chancery court
chancery hand
chancery law
chandelier tree
chang awn
change back
change bowler
change color
change course
change down
change for
change for the better
change for the worse
change front
change gear
change hands
change house
change into
change key
change of allegiance
change of commitment
change of conviction
change of heart
change of life
change of loyalty
change of mind
change of one thing for another
change of pace
change of venue
change off
change over
change ownership
change place
change places with
change point
change ratio
change residence
change ringing
change round
change sides
change the bearing
change the heading
change the preponderance
change to a former state
change to something different
change up
change wheel
change with the times
change your allegiance
change your colors
change your identity
change your mind
change your note
change your song
change your tune
change your ways
change-case key
change-house
change-over
change-over switch
change-ringing
change-speed gear
change-up
changed for the better
changement de pied
changements de pied
changer-off
changing bag
changing note
changing tone
channel bar
channel bass
channel board
channel bolt
channel cat
channel filter
channel goose
channel iron
channel patch
channel plate
channel rail
channel selector
channel steel
channel stone
channel-back chair
chanson de geste
chansons de geste
chant du cygne
chante-fable
chante-fables
chantry priest
chaotic heart
chap-book
chap-fallen
chap-money
chaparral bird
chaparral broom
chaparral cock
chaparral lily
chaparral pea
chaparral snapdragon
chapeau bras
chapel child
chapel de fer
chapel of ease
chapel royal
chapel text
chapels de fer
chapter and verse
charcoal powder
charcoal rot
charcoal tree
charcoal wood
charcoal-burner
charcoal-gray
charga-plate
charge account
charge book
charge card
charge carrier
charge conjugation
charge d'affaires
charge density
charge for
charge hand
charge in
charge nurse
charge of quarters
charge off
charge on
charge plate
charge sheet
charge the jury
charge to
charge to experience
charge to the jury
charge to your account
charge up
charge upon
charge weigher
charge with
charge-a-plate
charge-exchange accelerator
charge-house
charge-off
chargeable to
charged moment
charged up
charges forward
charging of the jury
charging order
charging rate
charging stick
chariot driver
chariot driving
chariot plane
chariot pole
chariot race
chariot racer
chariot side
chariot wheel
chariot-shaped
charismatic figure
charismatic gift
charismatic leader
charismatic movement
charismatic renewal
charity ball
charity bazaar
charity boy
charity case
charity commission
charity girl
charity house
charity school
charity stamp
charity ward
charity work
charity worker
charles's wain
charley horse
charlotte russe
charm school
charm the birds out of the trees
charm-bound
charm-built
charm-engirdled
charm-struck
charmed circle
charmed life
charnel house
chart a course
chart house
chart room
charter colony
charter hand
charter hold
charter land
charter member
charter party
charter school
charter-party
chartered accountant
chartered bus
chartreuse green
chartreuse tint
chartreuse yellow
chase after
chase away
chase gun
chase halter
chase hoop
chase mortise
chase mortised
chase off
chase out
chase piece
chase port
chase ring
chase up a stump
chase up a tree
chase women
chase your tail
chase-hooped
chase-hooping
chase-mortised
chaser hob
chasing lathe
chasse-maree
chassis fitter
chassis painter
chaste and fair
chaste as morning dew
chaste tree
chastity belt
chat show
chat up
chateau gray
chateau wine
chaton foil
chattel house
chattel interest
chattel mortgage
chattel slave
chattels personal
chattels real
chatter mark
chatter water
chatterbox tree
chattering of the teeth
chaud-froid
chaud-melle
chaulmoogra oil
chaun-
chaw-bacon
chaw-stick
che sara sara
che-choy
cheadle dock
cheap as dirt
cheap at half the price
cheap at the price
cheap item
cheap money
cheap rates
cheap shot
cheap skate
cheap-jack
cheap-john
cheat death
cheat on
cheat the undertaker
check a parameter
check and doublecheck
check binding
check boy
check brace
check chamber
check collar
check endorser
check exchange
check folio
check gauge
check girl
check in
check in and out
check in full career
check key
check line
check list
check lock
check mark
check nut
check of
check off
check on
check out
check over
check over and through
check punch
check puncher
check rail
check ring
check roller
check sheet
check side
check stamp
check stamper
check stopper
check system
check the growth of
check the helm
check through
check up
check up and down
check up on
check valve
check washer
check your speech
check-canceling
check-endorsing
check-flood
check-in
check-out
check-out pilot
check-over
check-perforating
check-roll
check-stone
check-string
check-writing
checked out
checked-out
checker plate
checker tree
checker-berry
checker-brick
checker-roll
checker-up
checkered lily
checkered plate
checking account
checking signals
checks and balances
cheddar pink
chee-chee
check block
cheek by cheek
cheek by jowl
cheek cut
cheek knee
cheek pouch
cheek strap
cheek to cheek
cheek tooth
cheek-by-jowl
cheer on
cheer pine
cheer the inner man
cheer to the very echo
cheer up
cheer-up
cheerful consent
cheerful expectation
cheerful fire
cheerful giver
cheerful outlook
cheerful readiness
cheery mood
cheery vein
cheese bail
cheese basket
cheese blintz
cheese block
cheese bolt
cheese cake
cheese cement
cheese chandler
cheese color
cheese cutter
cheese dream
cheese finger
cheese fly
cheese grater
cheese hoop
cheese it
cheese knife
cheese maggot
cheese maker
cheese making
cheese mite
cheese mold
cheese pitch
cheese plate
cheese press
cheese rack
cheese rennet
cheese running
cheese scoop
cheese skipper
cheese souffle
cheese straw
cheese toaster
cheese trier
cheese tub
cheese vat
cheese wring
cheese-head
cheese-headed
cheese-paring
cheesebox seat
cheesed off
cheeseparings and candle ends
chef d' oeuvre
chef d'oeuvre
chef d'ouvre
chef de cuisine
chef salad
chef-d'
chef-d'oeuvre
chefs de cuisine
chefs-d'oeuvre
cheil-
cheir-
cheiro-
chem-
chemic mixer
chemical analysis
chemical apparatus
chemical bond
chemical closet
chemical corps
chemical detector
chemical dictionary
chemical dynamics
chemical element
chemical elements
chemical engineer
chemical engineering
chemical equation
chemical fertilizer
chemical fuse
chemical lead
chemical physics
chemical potential  
chemical reaction  
chemical rocket  
chemical solution  
chemical sympathectomy  
chemical toilet  
chemical warfare  
chemically pure  
chemico-  
chemin de fer  
chemist's shop  
chemo-  
chemosynthetic bacteria  
chenille Axminster  
chenille carpet  
chenille plant  
chenille rug  
chenopodium oil  
cheoplastic metal  
cheque card  
chequer-chamber  
chequer-wise  
chequer-work  
chequered flag  
cherchez la femme  
cherish a belief  
cherish a feeling  
cherish an idea  
cherish at the heart's core  
cherish the hope  
cherish the memory of  
cherokee rose  
cheroonjie nut  
cherry aphid  
cherry apple  
cherry bay  
cherry birch  
cherry bird  
cherry bomb  
cherry bounce  
cherry brandy  
cherry chopper  
cherry coal  
cherry coffee  
cherry cordial  
cherry country  
cherry crab  
cherry crush
cherry currant
cherry fair
cherry finch
cherry fruit fly
cherry fruit sawfly
cherry grader
cherry gum
cherry holly
cherry laurel
cherry leaf beetle
cherry leaf spot
cherry maggot
cherry mildew
cherry orange
cherry pepper
cherry picker
cherry pie
cherry pit
cherry pitter
cherry plum
cherry red
cherry rum
cherry scab
cherry scale
cherry seeder
cherry slug
cherry smash
cherry stone
cherry stoner
cherry sucker
cherry tomato
cherry wine
cherry-bob
cherry-cheeked
cherry-colored
cherry-crimson
cherry-flavored
cherry-laurel oil
cherry-lipped
cherry-merry
cherry-pie
cherry-red
cherry-ripe
cherry-rose
cherry-tree gum
cherry-wood
chert quarrier
chesapeake bay retriever
cheshire cat
cheshire cheese
chess apple
chess clock
chess notation
chess opening
chess rook
chess-apple
chess-men
chess-playing machine
chess-tree
chessylite blue
chest X-ray
chest expander
chest founder
chest foundering
chest lid
chest lock
chest maker
chest measurer
chest note
chest of drawers
chest of viols
chest protector
chest register
chest tone
chest voice
chest wall
chest weight
chest-deep
chest-foundered
chest-on-chest
chested arrow
chester white
chestnut bean
chestnut blight
chestnut borer
chestnut bottle
chestnut brown
chestnut bud
chestnut clam
chestnut coal
chestnut extract
chestnut flour
chestnut oak
chestnut roaster
chestnut sedge
chestnut shell
chestnut stuffing
chestnut timber worm
chestnut tongue
chestnut tree
chestnut weevil
chestnut-backed
chestnut-bark disease
chestnut-bellied
chestnut-brown
chestnut-collared
chestnut-colored
chestnut-crested
chestnut-crowned
chestnut-red
chestnut-roan
chestnut-sided
chestnut-winged
cheval de bataille
cheval de frise
cheval glass
cheval screen
cheval-de-frise
cheval-glass
chevalier bird
chevalier crab
chevaux de bataille
chevaux-de-frise
ychron-shaped
chew ass
chew out
chew over
chew the cud
chew the fat
chew the rag
chew the scenery
chew up
chew up the scenery
chew your
chewing gum
chewing louse
chewing tobacco
chewing-out
chez soi
chi-lin
chi-rho
chi-square
chi-square distribution
chi-square test
chi-squared test
chian turpentine
chica red
chick-pea
chicksaw plum
chicken Cacciatore
chicken Kiev
chicken Marengo
chicken Tetrazzini
chicken and dumplings
chicken bird
chicken breast
chicken broth
chicken cholera
chicken colonel
chicken coop
chicken corn
chicken fancier
chicken farm
chicken farmer
chicken farming
chicken feed
chicken foot
chicken grape
chicken gumbo
chicken halibut
chicken hawk
chicken hazard
chicken heart
chicken house
chicken ladder
chicken liver
chicken louse
chicken mite
chicken out
chicken paprikas
chicken pepper
chicken pest
chicken plover
chicken pox
chicken ranch
chicken roost
chicken salad
chicken septicemia
chicken snake
chicken soup
chicken switch
chicken thief
chicken tick
chicken tortoise
chicken turtle
chicken wire
chicken yard
chicken-billed
chicken-brained
chicken-breasted
chicken-breastedness
chicken-farming
chicken-hazard
chicken-hearted
chicken-heartedly
chicken-heartedness
chicken-livered
chicken-liveredness
chicken-meat
chicken-spirited
chicken-toed
chickens-toes
chickling vetch
chickweed family
chickweed phlox
chickweed wintergreen
chicle bleeder
chicle gum
chico mamey
chicory family
chief constable
chief cook
chief engineer
chief executive
chief executive officer
chief justice
chief justiceship
chief librarian
chief master sergeant
chief mate
chief of police
chief of staff
chief of state
chief of the deadly sins
chief officer
chief petty officer
chief pilot
chief rabbi
chief thing
chief warrant officer
children's shop
children's wear
chile con carne
chile niter
chile saltpeter
chile sauce
chili and beans
chili con carne
chili pepper
chili powder
chili sauce
chili vinegar
chilio-
chill along the spine
chill casting
chill mold
chill plow
chill to the bone
chill to the marrow
chill your spine
chill-cast
chilled to the bone
chilli con carne
chilli pepper
chilli powder
chilli sauce
chilling wind
chills of fear
chills of terror
chilo-
chime hoop
chime in
chime in with
chime of bells
chime whistle
chiming bell
chimley neuck
chimney bar
chimney bellflower
chimney board
chimney breast
chimney cap
chimney corner
chimney flute
chimney glass
chimney hook
chimney jack
chimney lug
chimney money
chimney piece
chimney pink
chimney plant
chimney pot
chimney repairer
chimney rock
chimney stack
chimney stalk
chimney swallow
chimney sweep
chimney sweeper
chimney swift
chimney tax
chimney throat
chimney top
chimney tun
chimney wheel
chimney wing
chimney-piece
chimney-pot hat
chin cough
chin fly
chin music
chin rest
chin shield
chin stay
chin strap
chin whiskers
chin-bearded
chin-bone
chin-chin
chin-chinned
chin-chinning
chin-deep
chin-high
chin-up
chin-wag
china aster
china bark
china cabinet
china clay
china closet
china decorator
china painter
china painting
china rose
china shop
chipped beef
chipper-up
chipping ax
chipping bit
chipping chisel
chipping hammer
chipping piece
chipping sparrow
chipping squirrel
chiquichiqui palm
chir pine
chir-
chirk up
chiro-
chirp like a cricket
chisel bit
chisel grinder
chisel in
chisel maker
chisel making
chisel point
chisel steel
chisel temper
chisel tooth
chisel-cut
chisel-edged
chisel-pointed
chisel-shaped
chit-chat
chitino-arenaceous
chito melon
chittam bark
chittem bark
chitter-chatter
chittim bark
chitty-face
chive garlic
chlor-
chloracetic acid
chloral hydrate
chloramine-T
chloric acid
chloric ether
chloride of lime
chloride paper
chlorinated lime
chlorine azide
chlorine dioxide
chlorine family
chlorine peroxide
chlorine water
chloro-
chloroacetic acid
chlorobromid paper
chlorobromide paper
chloroformyl chloride
chlorophenol red
chlorophyll a
chlorophyll b
chlorophyll body
chloroplatinic acid
chlorosulfonic acid
chlorous acid
choc-ice
check cheese
check stone
chock-a-block
check-full
chocolate bar
chocolate brown
chocolate cake
chocolate candy
chocolate chip cookie
chocolate corn
chocolate coverer
chocolate dipper
chocolate drop
chocolate eclair
chocolate family
chocolate milk
chocolate mill
chocolate mixer
chocolate mold
chocolate molder
chocolate molding
chocolate mousse
chocolate packer
chocolate pudding
chocolate sifter
chocolate soldier
chocolate tree
chocolate wrapper
chocolate-box
chocolate-brown
chocolate-coated
chocolate-colored
choline esterase
cholo-
chomp at the bit
chondr-
chondro-
chondro-osseous
chondroitin-sulphuric
chondrotrophic hormone
choo-choo
choo-choo train
choo-chooed
choo-chooing
choof off
choose out
choose rather
choose to
choose up
chop and change
chop chop
chop dollar
chop down
chop logic
chop mark
chop sooy
chop stroke
chop suey
chop-cherry
chop-chop
chop-church
chop-fallen
chop-house
chop-logic
chop-stick
chop-suey
chopped steak
chopped-off
chopper cot
chopper tool
chopping block
chopping knife
chopping sea
choppy sea
chor bishop
choral conductor
choral dancer
choral dancing
choral director
choral fantasy
choral group
choral music
choral service
choral singer
choral singing
choral society
choral speaking
choral symphony
chorale prelude
chord chart
chord of the sixth
chord organ
chord packing
chord pitch
chord symbol
chorda dorsalis
chorda tendinea
chorda tympani
chordae tendineae
chore boy
chorea minor
choreo-
chori-
chorioallantoic membrane
chorionic gonadotrophin
chorionic gonadotropin
choroid coat
choroid membrane
choroid plexus
chorus boy
chorus frog
chorus girl
chorus man
chorus of cheers
chorus reed
chorus show
chorus singer
chose in possession
chose local
chose transitory
chosen freeholder
chosen kind
chosen people
chosen sort
chose in action
chose in possession
choses local
choses transitory
chrome aventurine
chrome black
chrome brick
chrome green
chrome iron
chrome iron ore
chrome leather
chrome lemon
chrome liquor
chrome orange
chrome oxide green
chrome primrose
chrome red
chrome scarlet
chrome sole
chrome spinel
chrome steel
chrome tanning
chrome vermillion
chrome yellow
chrome-nickel
chrome-nickel steel
chrome-tanned
chrome-vanadium steel
chromic acetate
chromic acid
chromic chloride
chromic fluoride
chromium acetate
chromium ammonium sulfate
chromium chloride
chromium family
chromium green
chromium oxide
chromium plate
chromium potassium sulfate
chromium sesquioxide
chromium steel
chromium trioxide
chromium yellow
chromium-plate
chromium-plated
chromo-
chromo-arsenate
chromosome complement
chromosome number
chromyl chloride
chron-
chronic alcoholic
chronic alcoholism
chronic bronchitis
chronic condition
chronic disease
chronic drunk
chronic ill health
chronic infectious arthritis
chronic inflammation
chronic leukemia
chronic pauperism
chronic poor
chronic poverty area
chronicle drama
chronicle history
chronicle play
chronique scandaleuse
chroniques scandaleuses
chrono-
chronological error
chronometer escapement
chrys-
chrysalis oil
chrysanthemum dog
chrysanthemum rust
chryso-
chrysolite green
chrysoprase green
chthonian worship
chub mackerel
chub sucker
chub-faced
chubby-faced
chuck and toss
chuck at
chuck farthing
chuck in
chuck it
chuck out
chuck plate
chuck rib
chuck roast
chuck steak
chuck under the chin
chuck up
chuck wagon
chuck-a-luck
chuck-farthing
church service
church slavic
church suffering
church text
church triumphant
church vessel
church visible
church wedding
church work
church worker
church year
church-ale
church-chopper
church-door
church-gang
church-garth
church-government
church-papist
church-scot
church-soken
church-ward
churchyard cross
churidar pyjamas
churn drill
churn molding
churn out
churn supper
churn up
churn-butted
churr-owl
churr-worm
chute system
chute the chute
chute the chutes
chute-the-chute
chute-the-chutes
chylo-
chym-
chymo-
ci-
ci-devant
ciba blue
cicada killer
cicatricial tissue
cich-pea
cider brandy
cider cup
cider gum
cider jack
cider maker
cider making
cider mill
cider press
cider tree
cider vinegar
cider wine
cigar beetle
cigar binder
cigar box
cigar case
cigar case-bearer
cigar clipper
cigar cutter
cigar holder
cigar lighter
cigar machine
cigar machinist
cigar maker
cigar making
cigar mold
cigar molder
cigar packer
cigar roller
cigar rolling
cigar smoker
cigar sorter
cigar spot
cigar store
cigar-box cedar
cigar-flower
cigar-loving
cigar-shaped
cigar-smoker
cigar-store Indian
cigarette beetle
cigarette break
cigarette butt
cigarette card
cigarette case
cigarette drain
cigarette end
cigarette factory
cigarette girl
cigarette holder
cigarette lighter
cigarette machine
cigarette maker
cigarette making
cigarette paper
cigarette roller
cigarette smuggling
cigarette sorter
cigarette tobacco
cigarette-smoker
ciliary body
ciliary muscle
ciliary process
ciliate-leaved
ciliate-toothed
cilio-spinal
cinch bill
cinch up
cinchona bark
cinder block
cinder breaker
cinder concrete
cinder cone
cinder frame
cinder gray
cinder mill
cinder notch
cinder patch
cinder path
cinder pig
cinder pit
cinder tap
cinder track
cine camera
cine film
cine-
cinema operator
cinema red
cinema theater
cinema verite
 cinerary urn
 cineres clavellati
 cingulate gyrus
 cinma vrit
 cinnabar green
 cinnabar red
 cinnamic acid
 cinnamic alcohol
 cinnamic aldehyde
 cinnamon apple
cinnamon bark
cinnamon bear
cinnamon brown
cinnamon fern
cinnamon flower
cinnamon honeysuckle
cinnamon oak
cinnamon oil
cinnamon rose
cinnamon sedge
cinnamon stone
cinnamon teal
cinnamon vine
cinnamon water
cinnamon-bark oil
cinnamon-leaf oil
cinnamoyl group
cinnamoyl radical
cinnamyl acetate
cinnamyl group
cinnamyl radical
cinque point
cinque ports
cinque-spotted
cipher disk
cipher up
circassian walnut
circle brick
circle cutter
circle driller
circle finisher
circle geometry
circle graph
circle in
circle of confusion
circle of convergence
circle of curvature
circle of least confusion
circle of the sphere
circle out
circle setter
circle shear
circle shears
circle squarer
circle theater
circle tour
circle trowel
circle-branching
circulating capital
circulating capital goods
circulating decimal
circulating equation
circulating library
circulating medium
circulatory collapse
circulatory disease
circulatory system
circum-
circum-meridian
circumflex accent
circumscribed by
circumstantial evidence
circumvent the law
circus artist
circus make-up
circus movement
circus performer
circus rider
circus tent
circus troupe
cire perdue
cire-perdue
cirl bunting
cirque-couchant
cirr-
cirrh-
cirrhosis of the liver
cirrhotic inflammation
cirro-
cirro-cumular
cirro-cumulative
cirro-cumulous
cirro-cumulus
cirro-fillo
cirro-filum
cirro-macula
cirro-nebula
cirro-stome
cirro-strative
cirro-stratous
cirro-stratus
cirro-velum
cirrocumulus castellanus
cirrocumulus castellatus
cirrocumulus floccus
cirrocumulus lenticularis
cirrocumulus stratiformis
cirrostratus fibratus
cirrostratus filosus
cirrostratus nebulosus
cirrus castellanus
cirrus castellatus
cirrus cloud
cirrus densus
cirrus fibratus
cirrus floccus
cirrus haze
cirrus intortus
cirrus nothus
cirrus spissatus
cirrus stripe
cirrus uncinus
cis-
cis-Elizabethan
cis-elysian
cis-polyisoprene rubber
cis-trans
cis-trans test
cist grave
cistern barometer
cite a case in point
cite a particular
cite cases in point
cite on several counts
cite particulars
citizen by adoption
citizen of the world
citizens band
citizenship by adoption
citizenship by birth
citizenship by naturalization
citizenship paper
citizenship papers
cito disp
citr-
citra-
citrate of magnesia
citric acid
citric acid cycle
citricola scale
citron butterfly
citron green
citron melon
citron water
citron wood
citron yellow
citron-colored
citron-yellow
citronella circuit
citronella grass
citronella oil
citrovorum factor
citrus anthracnose
citrus belt
citrus black fly
citrus blast
citrus canker
citrus fruit
citrus nematode
citrus rust mite
citrus scab
citrus white fly
city block
city blues
city board
city center
city chicken
city company
city council
city councilman
city court
city crop
city desk
city directory
city district
city dweller
city edition
city editor
city father
city gas
city hall
city man
city manager
city mission
city missionary
city of the dead
city plan
city planner
city planning
city room
city slicker
city slicker
city ward
civil-law
civil-rights
civilian clothes
civilian dress
civilized behavior
civilized taste
clabber up
cluck box
cluck door
cluck goose
cluck valve
clado-
claim agent
claim as your right
claim attention
claim jumper
claim sanctuary
claim squatter's right
claim to be
claim your mind
claim your pound of flesh
claim your thoughts
claim-jumper
claim-jumping
claiming race
claire de lune
claire-obscure
clam chowder
clam digger
clam diggers
clam shell
clam up
clamber up
clammy azalea
clammy honeysuckle
clammy locust
clamor for
clamp bushing
clamp cell
clamp connection
clamp coupling
clamp dog
clamp down
clamp down on
clamp jig
clamp rail
clamp truck
clamping down
clamshell brake
clamshell bucket
clamshell door
clamshell doors
clan tartan
clan totemism
clandestine behavior
clang association
clang color
clang tint
clap eyes on
clap hands
clap hands on
clap hold of
clap in jail
clap in prison
clap of thunder
clap on
clap on ratlines
clap on sail
clap on the back
clap sill
clap spurs to your horse
clap the hands
clap together
clap up
clap-net
clap-stick
clapped out
clapper block
clapper box
clapper bridge
clapper rail
clapper valve
clapper-claw
clapping of hands
clare-obscure
claret brown
claret cup
claret dun
claret red
claribel flute
clarified butter
clarin trumpet
clarinet flute
clarion call
clarion-voiced
claro obscuro
clash gear
clash in color
clash of arms
clash with
clashing colors
clashing colors
clasp hook
clasp knife
clap lock
clasp nut
clasping-leaved
class boat
class bond
class conflict
class consciousness
class day
class dialect
class distinction
class hatred
class inclusion
class interval
class leader
class list
class lottery
class mark
class meaning
class meeting
class name
class number
class prejudice
class publication
class rate
class ring
class structure
class struggle
class war
class warfare
class-cleavage
class-conscious
classic blues
classic example
classic purity
classical Nahuatl
classical Sanskrit
classical abstraction
classical ballet
classical college
classical conditioning
claw your way up
claw-and-ball foot
claw-footed
claw-hammer coat
claw-tailed
clay agitator
clay band
clay burner
clay burning
clay court
clay crusher
clay digger
clay drab
clay drier
clay eater
clay fever
clay flour
clay grinder
clay iron
clay loam
clay marl
clay mill
clay miner
clay mineral
clay mixer
clay model
clay modeler
clay pan
clay pigeon
clay pipe
clay pit
clay press
clay pressman
clay pugger
clay pulverizer
clay sculpture
clay shale
clay slate
clay soil
clay stacker
clay stone
clay temperer
clay washer
clay works
clay worsted
clay-bound
clay-bound
clay-colored
clay-colored sparrow
clay-digging
clay-dimmed
clay-drying
clay-faced
clay-filtering
clay-forming
clay-grinding
clay-lined
clay-mixing
clay-tempering
clay-washing
clay-wrapped
clay-ver-grass
clean as a hound's tooth
clean as a new penny
clean as a whistle
clean bill of health
clean bomb
clean forget
clean forgotten
clean full
clean hands
clean house
clean out
clean profit
clean room
clean rum
clean slate
clean sweep
clean up
clean up on
clean-
clean-appearing
clean-armed
clean-boled
clean-bred
clean-built
clean-complexioned
clean-cut
clean-faced
clean-feeding
clean-fingered
clean-grained
clean-handed
clean-legged
clean-limbed
clear as day  
clear as ditch water  
clear as glass  
clear as mud  
clear as the nose on your face  
clear away  
clear coast  
clear conscience  
clear course  
clear eyes  
clear for action  
clear hawse  
clear obscure  
clear of  
clear off  
clear off old scores  
clear out  
clear plastic  
clear profit  
clear road  
clear sailing  
clear shellac  
clear sight  
clear soup  
clear space  
clear stage  
clear text  
clear the air  
clear the board  
clear the decks  
clear the hurdle  
clear the land  
clear the mind  
clear the mind of  
clear the path for  
clear the road for  
clear the skirts of  
clear the throat  
clear the trade  
clear the way  
clear thinking  
clear to hell and gone  
clear up  
clear varnish  
clear wax  
clear your name  
clear-air turbulence  
clear-boled
clear-channel station
clear-cole
clear-complexioned
clear-crested
clear-cut
clear-cutness
clear-cutting
clear-eye
clear-eyed
clear-eyes
clear-faced
clear-featured
clear-hawse breeches
clear-hawse pendant
clear-headed
clear-minded
clear-mindedness
clear-obscure
clear-sighted
clear-sightedly
clear-sightedness
clear-skinned
clear-spirited
clear-starch
clear-starcher
clear-stemmed
clear-story
clear-sunned
clear-throated
clear-tinted
clear-toned
clear-up
clear-visioned
clear-voiced
clear-walled
clear-witted
clearance angle
clearance car
clearance fit
clearance loan
clearance papers
clearance sale
clearance size
clearance space
clearer fabric
clearing agent
clearing bank
clearing bath
clerk vicar
clerk-ale
clerks regular
clero-
clever Dick
clever reply
clever retort
clever-clever
clever-handed
clevis bolt
clew down
clew garnet
clew iron
clew jigger
clew line
clew ring
clew rope
clew up
cliche-ridden
click beetle
click catch
click hook
click iron
click pulley
click wheel
click-clack
clickety-clack
clickety-click
client's indemnity
client-centered therapy
cliff brake
cliff dweller
cliff dwelling
cliff edge
cliff elm
cliff face
cliff hanger
cliff path
cliff rose
cliff ruin
cliff swallow
cliff top
cliff wall
cliff-bound
cliff-chafed
cliff-girdled
cliff-hanger
cliff-hanging
cliff-marked
cliff-worn
climactic arthritis
climate of opinion
climatic bubo
climatic chart
climax basket
climax forest
climb Parnassus
climb down
climb indicator
climb milling
climb on
climb over
climb up
climb your frame
climb-down
climbing bittersweet
climbing fern
climbing fish
climbing frame
climbing fumitory
climbing hempweed
climbing hydrangea
climbing iron
climbing irons
climbing perch
climbing rose
climbing ylang-ylang
clin-
clinch joint
clinch nail
clinch work
clinch-built
clincher tire
clincher work
clincher-built
clinching iron
cling like a burr
cling like a winkle
cling like ivy
cling to
cling to the hope
cling-rascal
clinging vine
clinical death
clinical dextran
clinical diagnosis
clinical medicine
clinical pathology
clinical psychologist
clinical psychology
clinical surgery
clinical thermometer
clink shell
clink-clank
clinker beech
clinker boat
clinker brick
clinker plating
clinker strake
clinker work
clinker-built
clinker-laid plating
clinkety-clink
clinkum bell
clino-
clinonite group
clip bond
clip hook
clip joint
clip off
clip plate
clip the wings
clip the wings of
clip tongs
clip yoke
clip your words
clip-clop
clip-edged
clip-fed
clip-marked
clip-on
clip-winged
clipped form
clipped word
clipper bow
clipper ship
clipper sled
clipper-built
clippety-clop
clipping bureau
clipping time
clique with
clish-clash
clish-ma-claver
cloaca maxima
cloaca maxima
cloak baster
cloak dealer
cloak fern
cloak fitter
cloak hanger
cloak ironer
cloak maker
cloak operator
cloak pin
cloak presser
cloak trimming
cloak yourself
cloak yourself with
cloak-and-dagger
cloak-and-dagger operative
cloak-and-dagger work
cloak-and-suiter
cloak-and-sword
cloak-fashion
cloak-room
cloaked in darkness
clock card
clock chart
clock correction
clock error
clock golf
clock in
clock jack
clock meter
clock movement
clock off
clock on
clock out
clock plant
clock radio
clock setter
clock spring
clock stamp
clock star
clock tower
clock up
clock watch
clock watcher
clock winder
clock winding
clock-hour
clock-making
clock-minded
clock-watcher
clock-watching
clock-work
clockface method
clockwork regularity
clod crusher
clod crushing
clod fender
clod poll
clod pulverizer
clod roller
clod smasher
clod-brown
clod-hopper
clod-pate
clod-poll
clod-tongued
clodding press
clog almanac
clog dance
clog dancer
clog dancing
clog maker
clog up
clogged up
cloisonne enamel
cloister garth
cloister text
cloister vault
cloistered monasticism
cloistered monk
cloistered nun
cloistered vault
clonic spasm
clop-clop
close about
close acquaintance
close arrest
close at hand
close attention
close borough
close by
close call
close communion
close communionist
close company
close copy
close corporation
close down
close facsimile
close fighting
close fit
close formation
close friend
close gauntlet
close grips
close harmony
close helmet
close imitation
close in
close in on
close inquiry
close juncture
close likeness
close line
close main vents
close match
close of day
close off
close on
close or watchful attention
close out
close position
close quarters
close quote
close quotes
close range
close reach
close replica
close reproduction
close resemblance
close season
close secrecy
close shave
close shop
close shot
close squeak
close string
close study
close the books
close the circle
close the conning tower hatch
close the door on
close the eyes to
close the hand
close the jaws of the pincers
close the jaws of the trap
close the light
close the purse
close the shutters
close tight
close to
close to the wind
close to your chest
close to your heart
close up
close up like a clam
close upon
close with
close with the land
close your ears
close your eyes
close your eyes to
close your mind
close your mouth
close-annealed
close-at-hand
close-banded
close-barred
close-bitten
close-bodied
close-bred
close-buttoned
close-by
close-clad
close-clapped
close-clipped
close-coiffed
close-compacted
close-connected
close-couched
close-coupled
close-cropped
close-curled
close-curtained
close-cut
close-drawn
close-eared
close-fertilization
close-fertilize
close-fibered
close-fights
close-visaged
close-winded
close-woven
close-written
closed arc
closed book
closed chain
closed circle
closed circuit
closed company
closed cornice
closed corporation
closed couplet
closed forever to
closed fracture
closed game
closed gentian
closed loop
closed meeting
closed mind
closed mortgage
closed primary
closed scholarship
closed sentence
closed sequence
closed shell
closed shop
closed sphere
closed string
closed system
closed to
closed traverse
closed union
closed-circuit
closed-circuit cell
closed-circuit grinding
closed-circuit telegraphy
closed-circuit television
closed-circuit winding
closed-coil
closed-coil armature
closed-door
closed-end
closed-end fund
closed-end investment company
closed-in
closed-loop system
closed-minded
closed-out
closely related
closet cynic
closet drama
closet queen
closet yourself with
closeup lens
closing costs
closing error
closing machine
closing off
closing price
closing time
closing up
closing-out sale
closure by compartment
closure rail
clot-bird
clot-bur
clot-poll
cloth baler
cloth beam
cloth beetle
cloth binding
cloth board
cloth brusher
cloth cap
cloth carbonizer
cloth cleaner
cloth clipper
cloth coat
cloth cutter
cloth doubler
cloth dresser
cloth drier
cloth finisher
cloth folder
cloth fuller
cloth hall
cloth lapper
cloth maker
cloth measure
cloth measurer
cloth mercer
cloth miller
cloth napper
cloth numberer
cloth of gold
cloth oil
cloth packer
cloth paper
cloth piecer
cloth plate
cloth press
cloth presser
cloth printer
cloth prover
cloth red
cloth roll
cloth scourer
cloth shearer
cloth shrinker
cloth slitter
cloth sorter
cloth stapler
cloth stitch
cloth stretcher
cloth tape
cloth tenter
cloth tester
cloth warper
cloth weaver
cloth weigher
cloth yard
cloth yard shaft
cloth-backed
cloth-calendering
cloth-covered
cloth-cropping
cloth-cutting
cloth-drying
cloth-dyeing
cloth-eared
cloth-faced
cloth-finishing
cloth-folding
cloth-inserted
cloth-laying
cloth-lined
cloth-maker
cloth-measuring
cloth-of-gold
cloth-shearing
cloth-shrinking
cloth-smoothing
cloth-sponger
cloth-spreading
cloth-stamping
cloth-testing
cloth-weaving
cloth-winding
cloth-yard
clothbound book
clothe in words
clothe with power
clothed in darkness
clothed with authority
clothes beater
clothes bin
clothes chest
clothes closet
clothes hamper
clothes hanger
clothes louse
clothes maid
clothes maiden
clothes moth
clothes peg
clothes pole
clothes post
clothes presser
clothes rack
clothes screen
clothes spoiling
clothes stick
clothes stop
clothes tree
clothes wringer
clothes-conscious
clothes-consciousness
clothes-drier
clothes-drying
clothes-peg
clothes-press
clothes-washing
clothing merchant
clothing store
clothing wool
clotted cream
clotting factor
cloture by compartment
cloud band
cloud bank
cloud banner
cloud belt
cloud burst
cloud cap
cloud chamber
cloud city
cloud cover
cloud drift
cloud forest
cloud funnel
cloud grass
cloud gray
cloud layer
cloud mass
cloud nine
cloud of words
cloud over
cloud physics
cloud point
cloud rack
cloud ring
cloud seeder
cloud seeding
cloud shapes
cloud stone
cloud street
cloud study
cloud up
cloud-ascending
cloud-barred
cloud-born
cloud-built
cloud-capped
cloud-capped peak
cloud-compact
cloud-compacted
cloud-compeller
cloud-compelling
cloud-covered
cloud-crammed
cloud-crossed
cloud-cuckoo-land
cloud-curtained
cloud-dispelling
cloud-dividing
cloud-drowned
cloud-eclipsed
cloud-enveloped
cloud-flecked
cloud-girt
cloud-headed
cloud-hidden
cloud-kissing
cloud-laden
cloud-led
cloud-piercing
cloud-rocked
cloud-scaling
cloud-seeding
cloud-shaped
cloud-surmounting
cloud-surrounded
cloud-topped
cloud-topped peak
cloud-touching
cloud-woven
cloud-wrapped
clouded mind
clouded over
clouded sulfur
cloudless sulphur
clouds on the horizon
cloit nail
cloit shoot
cloit shot
cloit-shoe
clove brown
clove carnation
clove cassia
clove cinnamon
clove currant
clove gillyflower
clove hitch
clove hook
clove nutmeg
clove oil
clove pepper
clove pink
clove tree
clove-gillyflower
clove-strip
cloven foot
cloven hoof
cloven-footed
cloven-footedness
cloven-hoofed
clover aphid
clover bloom
club mosses
club palm
club plane
club root
club rush
club sandwich
club shell
club skate
club soda
club sofa
club steak
club together
club tooth
club topsail
club wheat
club-armed
club-ended
club-fist
club-foot
club-footed
club-footed jib
club-haul
club-headed
club-high
club-law
club-man
club-moss
club-moss family
club-riser
club-rush
club-shaped
clubfoot moss
clumber spaniel
clump block
clump foot
clump-head grass
clumsy performance
clumsy-fisted
cluster bean
cluster cup
cluster fig
cluster fir
cluster flower
cluster fly
cluster leg
cluster pine
cluster point
cluster variable
cluster wheat
cluster-cup lichen
cluster-cup stage
clusterhead pink
clutch bag
clutch shaft
clydesdale terrier
clypeo-
cn-
co-
co-adaptation
co-adjust
co-adventure
co-afforest
co-agency
co-allied
co-ally
co-appear
co-aration
co-assessor
co-assist
co-attest
co-ax
co-bishop
co-brother
co-clause
co-conspirator
co-defendant
co-driver
co-ed
co-education
co-effect
co-efficacy
co-equate
co-establishment
co-estate
co-executor
co-exist
co-feoffee
co-guardian
co-infinite
co-inhabit
co-inhere
co-inheritor
co-labourer
co-latitude
co-lessee
co-life
co-mart
co-martyr
co-mate
co-nominee
co-obligant
co-oblige
co-obligor
co-occupant
co-occupy
co-occurrence
co-omnipotent
co-omniscient
co-op
co-operable
co-operancy
co-operant
co-operate
co-operation
co-operationist
co-operative
co-operatively
co-operativeness
co-operator
co-operculum
co-opt
co-optate
co-optation
co-optative
co-option
co-optive
co-ordain
co-ordainer
co-order
co-ordinacy
co-ordinal
co-ordinance
co-ordinancy
co-ordinate
co-ordinately
co-ordinateness
co-ordination
co-ordination formula
co-ordination number
co-ordinative
co-ordinator
co-ordinatory
co-organize
co-origin
co-original
co-originality
co-orthogonal
co-orthotomic
co-ossification
co-ossify
co-owner
co-ownership
co-patriot
co-presenter
co-presence
co-radicate
co-regent
co-relation
co-religionist
co-respondent
co-rival
co-sentient
co-signatory
co-signer
co-sovereign
co-star
co-starred
co-starring
co-subordinate
co-supreme
co-sureties
co-surety
co-tenant
co-tidal
co-trustee
co-une
co-unite
co-use
co-versed
co-walker
co-widow
co-wife
co-winner
co-work
co-worker
co-working
co-worship
coach box
coach carver
coach coat
coach dog
coach driver
coach driving
coach guard
couch hire
couch horse
couch house
couch maker
couch painter
couch road
couch screw
couch-and-four
couch-box
couch-built
couch-hip
couching glass
couching house
couching inn
couchwhip bird
couchwhip snake
coadjutor bishop
coa-
cocagulated protein
coc coal backer
coc coal backing
coc coal ball
coc coal barge
coc coal barrow
coc coal basket
coc coal bin
coc coal blacking
coc coal blende
coc coal boat
coc coal brass
coc coal breaker
coc coal bucket
coc coal bunker
coc coal car
coc coal cart
coc coal carta
coc coal cartman
coc coal cella
coc coal checker
coc coal chute
coc coal cleaner
coc coal contractor
coc coal conveyer
coc coal crusher
coc coal cutter
coc coal depot
coc coal digger
coc coal discharger
coal dredger
coal drill
coal dump
coal dust
coal elevator
coal field
coal flap
coal fleet
coal furnace
coal gas
coal goose
coal grinder
coal hauler
coal hawker
coal heat
coal heaver
coal hewer
coal hod
coal hoist
coal hole
coal kiln
coal labeler
coal leveler
coal loader
coal lumpers
coal measures
coal mine
coal miner
coal mining
coal oil
coal operator
coal passer
coal picker
coal pipe
coal pit
coal plant
coal pocket
coal pot
coal producer
coal pulverizer
coal refiner
coal scoop
coal screen
coal screeener
coal scuttle
coal shaker
coal ship
coal shovel
coal shoveler
coal sieve
coal sorter
coal spreader
coal sprinkler
coal stacker
coal storage
coal stove
coal tallyman
coal tar
coal tipper
coal tipple
coal tit
coal tongs
coal trimmer
coal truck
coal unloader
coal wagon
coal washer
coal washery
coal weigher
coal wharf
coal wharfinger
coal workings
coal works
coal-bearing
coal-black
coal-blue
coal-boring
coal-breaking
coal-burning
coal-cutting
coal-dark
coal-dumping
coal-elevating
coal-eyed
coal-faced
coal-fired
coal-fish
coal-gas
coal-handling
coal-house
coal-laden
coal-leveling
coal-loading
coal-man
coal-measure
coal-meter
coal-miner's lung
cold-picking
cold-pit
cold-producing
cold-pulverizing
cold-sack
cold-scuttle
cold-sifting
cold-stone
cold-tar
cold-tar creosote
cold-tar crude
cold-tar dye
cold-tar pitch
cold-tester
cold-tit
cold-whipper
cold-whipping
cold-works
coaling station
coalition government
coarse fish
coarse texture
coarse-featured
coarse-fibered
coarse-grained
coarse-grainedness
coarse-haired
coarse-handed
coarse-lipped
coarse-minded
coarse-skinned
coarse-spoken
coarse-spun
coarse-textured
coarse-tongued
coarse-toothed
coarse-wrought
coarseness of grain
coarseness of intellect
coast artillery
coast belt
coast fever
coast grass
coast guard
coast guard cutter
coast jointweed
coast lily
cocaine family
cocaine plant
cocaine sniffer
coccidioidal granuloma
coccus indicus
coccy-
coccygeo-anal
coccygeo-mesenteric
coccygo-
cochil sapota
cochin china
cochin oil
cochin-china
cochineal cactus
cochineal fig
cochineal insect
cochineal plant
cochit zapotl
cochlear duct
cochleariform process
cochon de lait
cochylis moth
cock a snook
cock a snook at
cock ale
cock and pie
cock bead
cock bread
cock broth
cock crowing
cock feather
cock metal
cock of the walk
cock of the woods
cock penny
cock robin
cock schnapper
cock sorrel
cock sparrow
cock the ears
cock the eye
cock up
cock's head hinge
cock's-comb
cock's-foot
cock's-head
cock-a
cock-a-doodle
cockatoo fence
cockatoo fish
cockatoo grass
cockatoo orchis
cockatoo parakeet
cocked hat
cocker spaniel
cocket center
cocket centering
cockeye bob
cockeye pilot
cockeyed bob
cockeyed drunk
cockie-leekie
cocking cart
cockle button
cockle garden
cockle hat
cockle oast
cockle stairs
cockle stove
cockle strewer
cockle wheat
cockle-bread
cockle-headed
cockle-shell
cockles of the heart
cockles of your heart
cocks-of-the-rock
cockscomb grass
cocksfoot grass
cockspur flower
cockspur grass
cockspur hawthorn
cockspur rye
cockspur thorn
cockspur vine
cocktail chair
cocktail dress
cocktail glass
cocktail hour
cocktail lounge
cocktail party
cocktail sauce
cocktail shaker
cocktail stick
cocktail table
cocktail-party chitchat
cocky-leeky
cockyolly bird
cockyoly bird
coco de mer
coco grass
coco palm
coco plum
coco sedge
coco-plum
cocoa bean
cocoa beans
cocoa brown
cocoa butter
cocoa plant
cocoa presser
cocoa red
cocoa sedge
cocoa shell
cocoa tea
cocoa-brown
cocoa-colored
coconut beetle
coconut brown
coconut bud rot
coconut butter
coconut cake
coconut crab
coconut cream
coconut ice
coconut jelly
coconut matting
coconut meal
coconut mealy bug
coconut milk
coconut oil
coconut palm
coconut shy
coconut tree
coconut walk
coconut water
coconut-palm rot
cod end
cod line
cod liver
cod net
cod oil
cod war
cod-bait
cod-fish
cod-liver meal
cod-liver oil

cod-piece

cod-smack

coda mark

coddle yourself
coddled eggs
coddy-moddly
code book
code duello
code flag
code of ethics
code of laws
code of morals
code of oral communication
code pennant
code state
code word
coded message
codeine cough syrup
codex rescriptus
codfish aristocracy
codfish balls
codfish cakes
codlin moth
codling moth
codlins-and-cream
coeducational school
coefficient component
coefficient of acceleration
coefficient of elasticity
coefficient of expansion
coefficient of fineness
coefficient of friction
coefficient of mutual induction
coefficient of performance
coefficient of restitution
coefficient of self-induction
coefficient of viscosity
coe-

coealanaglyptic sculpture
coeeliac disease
coeeliac plexus

coelio-

coelo-

coen-

coen-
cognac oil

cognate object

cognitive dissonance

cognitive psychology

cognizant of

cogswell chair

cogwheel ore

cogwheel respiration

cohere

cohere light

cohune fat

cohune nut

cohune oil

cohune palm

cog of vantage

coil bobbin

coil box

coil former

coil pottery

coil spring

coil-filling

coil-testing

coil-winding

coiler can

coiler plate

coin a phrase

coin assor ter

coin bag

coin box

coin case

coin changer

coin check

coin collector

coin counter

coin envelope

coin fancier

coin glass

coin gold

coin guard

coin holder

coin laundry

coin lock

coin machine

coin money

coin nickel

coin of the realm

coin planchet

coin pouch
cola nut
cola seed
colatitude circle
colcannon night
colchicum root
cold abcess
cold as a welldigger's ass
cold as a witch's kiss
cold as a witch's tit
cold as charity
cold as death
cold as ice
cold as marble
cold blast
cold blood
cold cash
cold cathode
cold cathode tube
cold cautery
cold chisel
cold color
cold comfort
cold cream
cold creeps
cold cuts
cold deck
cold drink
cold duck
cold fact
cold feet
cold fish
cold frame
cold front
cold heart
cold light
cold light of reality
cold meat
cold of heart
cold pack
cold patch
cold place
cold pole
cold purgatorial fires
cold rubber
cold sauces
cold season
cold sector
cold sensation
cold-hearted
cold-heartedly
cold-heartedness
cold-meat fork
cold-natured
cold-nipped
cold-pack
cold-pack method
cold-patch
cold-pated
cold-press
cold-producing
cold-roll
cold-rolled
cold-saw
cold-short
cold-shortness
cold-shoulder
cold-shut
cold-slain
cold-spirited
cold-storage
cold-store
cold-swage
cold-sweat
cold-taking
cold-type
cold-type proof
cold-type typesetting
cold-water
cold-water cure
cold-water flat
cold-water glue
cold-water paint
cold-wave flag
cold-weld
cold-white
cold-work
cold-working
cole slaw
cole titmouse
cole-goose
cole-prophet
cole-rake
cole-slaw
cole-staff
cole-tit
colen-bell
colewort green
coliform bacillus
coliform bacteria
coliform bacterium
colinear beam antenna
coliseum ivy
coll' arco
coll-
colla tempestada
collagen disease
collapse breccia
collapse of authority
collapse ring
collapse therapy
collapsed lung
collapsing tap
collar bag
collar beam
collar bearing
collar blight
collar bolt
collar box
collar button
collar buttoner
collar case
collar cell
collar cutter
collar day
collar disease
collar edger
collar fastener
collar finisher
collar fungus
collar gauge
collar girdle
collar iron
collar ironer
collar machinist
collar maker
collar making
collar nut
collar pad
collar point
collar polisher
collar rot
collar shaper
collar starcher
collar stitcher
collar stud
collar tie
collar tree
collar work
collar-bone
collar-bound
collar-cutting
collar-shaping
collar-to-collar
collar-wearing
collard greens
collared dove
collared lizard
collared peccary
collateral circulation
collateral descendant
collateral evidence
collateral loan
collateral relative
collateral security
collateral trust bond
collateral warranty
collating mark
collect a duty on
collect a tax on
collect call
collect for your services
collect knowledge
collect learning
collect of the Communion
collect of the Mass
collect on delivery
collect oneself
collect your thoughts
collect yourself
collected edition
collected sayings
collected works
collecting battalion
collecting hair
collecting tubule
collection agency
collection agent
collective action
collective agreement
collective agreements
collective bargaining
collective behavior
college-bred
college-preparatory
collegiate church
collegiate institute
collegium musicum
collet chuck
collet foot
collier's purchase
colliey manager
collimating eyepiece
collimating lens
collimation axis
collimation error
collimation line
collimation plane
collision bulkhead
collision clause
collision course
collision density
collision diameter
collision emission
collision insurance
collision mat
collision-proof
collo-
collodio-
collodion cotton
collodion process
colloid carcinoma
colloid chemistry
colloid mill
colloidal solution
colloidal suspension
colloquial English
colloquial discourse
colloquial language
colloquial speech
colloquial usage
colo-
cologne plant
cologne spirits
cologne water
colon bacillus
colonel blimp
colonel commandant
colonel general
colonel-commandantship
colonial bent
colonial dollar
colonial experience
colonial government
colonial siding
colonialist threat
coloph-
color analysis
color analyzer
color arrangement
color balance
color bar
color base
color blender
color blindness
color blocker
color blower
color box
color brush
color camera
color card
color cell
color changeling
color chart
color checker
color chest
color cinematography
color circle
color clash
color company
color compatibility
color cone
color constant
color contrast
color control
color cycle
color design
color designer
color diagram
color dimension
color doctor
color dominance
color dry sifter
color dryer
color drying
color dyer
color emissivity
color etcher
color film
color solid
color spectrum
color spreader
color striker
color system
color target
color television
color temperature
color tone
color top
color tree
color triangle
color up
color vision
color wash
color weakness
color wheel
color with emotion
color zone
color-ball pool
color-bearer
color-blind
color-fading
color-free
color-grinding
color-matching
color-mixture curve
color-sensitize
color-testing
color-washed
coloreado loco vetch
coloratura soprano
colored glasses
colored person
colored spectacles
colored stone
colorful imagination
colorful language
colorimetric quality
coloring book
coloring matter
coloring tool
colors in patches
colors of rhetoric
colossal order
colossus of knowledge
colour bar
colour code
colour filter
colour guard
colour index
colour line
colour phase
colour scheme
colour sergeant
colour supplement
colour-blind
colour-box
colpach heifer
colpo-
colt ale
colt distemper
colt evil
colt's tail
colt's-tail
colt-herb
colt-pixie
coltsfoot snakeroot
columbine blue
columbium pentoxide
columbo wood
columbus day
columella auris
columella cranii
column bone
column chromatography
column formula
column inch
column krater
column lathe
column rule
column shaper
column still
column vector
columna caelata
columna rostrata
columnae caelatae
columnar epithelium
columnar jointing
columnar structure
columnar tactics
colza oil
com-
coma berenices
coma vigil
comb back
combat post
combat practice
combat rehearsal
combat rocket
combat service
combat team
combat train
combat unit
combat zone
combative reaction
combed ware
combed yarn
comber board
combination analysis
combination button
combination car
combination center drill
combination chuck
combination consolidation
combination crossing
combination cut
combination door
combination frame
combination fuse
combination jig
combination last
combination lathe
combination lock
combination longwall
combination microphone
combination note
combination pedal
combination piston
combination plane
combination plate
combination plow
combination principle
combination rate
combination room
combination rubber
combination salad
combination shot
combination square
combination tone
combinatorial analysis
combinatorial mathematics
combinatorial topology
combinatory logic
combine harvester
combine in
combined effort
combined experience table
combined operation
combined operations
combing hair
combing machine
combing wool
combining form
combining weight
combust way
combustible material
combustion cell
combustion chamber
combustion engine
combustion engineer
combustion engineering
combustion furnace
combustion lag
combustion method
combustion motor
combustion spoon
combustion train
combustion tube
come a cropper
come about
come across
come across with
come afoul of
come after
come again
come again and again
come alive
come along
come among
come and get it
come and go
come apart
come apart at the seams
come around
come around to
come as a shock
come as a surprise
come as no surprise
come as you are
come at
come at your call
come away
come back
come back at
come barging in
come before
come behind
come between
come breezing in
come busting in
come by
come by chance
come by your own
come clean
come close
come close on the heels of
come closer
come crashing down
come down
come down a peg
come down a peg or two
come down in buckets
come down in price
come down in sheets
come down in torrents
come down on
come down on the side of
come down on your marrowbones
come down out of the clouds
come down squarely in the middle
come down to earth
come down upon
come down with
come down with the needful
come face to face with
come first
come forth
come forward
come foul of
come from
come from an unexpected quarter
come from behind
come full circle
come hat in hand
come hell or high water
come home
come home to
come home to roost
come in
come in conflict with
come in contact
come in for
come in for a landing
come in for a share
come in its turn
come in like a lion
come in sight
come in through a side door
come in view
come into
come into being
come into collision
come into existence
come into man's estate
come into money
come into possession
come into the world
come into vogue
come into years of discretion
come into your head
come into your own
come last
come like a thunderbolt
come like a thunderclap
come near
come nearer
come next
come of
come of age
come off
come off it
come off second best
come on
come on bended knee
come out
come out first
come out in the open
come out in the wash
come out into the open
come out of
come out of it
come out on top
come out on top of the heap
come out with
come over
come rain or shine
come right back at
come round
come round again
come round to
come short
come sick
come sta
come through
come through with
come through with flying colors
come to
come to a center
come to a conclusion
come to a dead stop
come to a decision
come to a determination
come to a focus
come to a full stop
come to a grinding halt
come to a halt
come to a head
come to a parting of the ways
come to a point
come to a screaming halt
come to a shuddering halt
come to a stand
come to a standstill
come to a stop
come to a violent end
come to an agreement
come to an end
come to an understanding
come to an untimely end
come to anchor
come to attention
come to be
come to blows
come to close quarters
come to cold steel
come to dust
come to fruition
come to grief
come to grips with
come to hand
come to know
come to land
come to life
come to light
come to man’s estate
come to maturity
come to mind
come to naught
come to no good
come to nothing
come to one
come to pass
come to pieces
come to terms
come to terms with yourself
come to the aid of
come to the fore
come to the front
come to the point
come to the rescue
come to the scratch
come to your ear
come to your ears
come to your journey's end
come to your knowledge
come to your senses
come to yourself
come together
come true
come tumbling down
come unawares
come under
come undone
come unstuck
come up
come up again
come up against
come up fighting
come up for more
come up short
come up smiling
come up to
come up to scratch
come up with
come upon
come upon the stage
come upon unexpectedly
come upon without warning
come uppermost
come what may
come with child
come your way
come-all-y
come-along
come-at-ability
come-at-able
come-at-ablleness
come-back
come-between
come-by-chance
come-down
come-hither
come-hither look
come-hithery
come-off
come-on
come-on man
come-out
come-outer
comedie bouffe
comedie larmoyante
comedie rosse
comedy ballet
comedy drama
comedy of character
comedy of humors
comedy of ideas
comedy of intrigue
comedy of manners
comedy of situation
comedy prop
comedy relief
comely-featured
comers and goers
comet aster
comet finder
comet seeker
comfort room
comfort station
comfort zone
comfortable circumstances
comfortably situated
comic bass
comic book
comic muse
comic novel
comic opera
comic relief
comic section
comic strip
comic supplement
command pulses
command respect
commander in chief
commanders in chief
commanding officer
comme ci comme ca
comme d'habitude
comme deux gouttes d'eau
comme il faut
commedia dell'arte
commedia dell'artes
commedias dell'arte
commedie dell'arte
commelina blue
commence firing
commencement exercises
commend to attention
commendation ninepence
comment allez-vous
comment ca va
comment upon
commerce destroyer
commerce raider
commerce raiding
commerce with
commercial affairs
commercial agency
commercial agent
commercial announcement
commercial arithmetic
commercial art
commercial artist
commercial attache
commercial aviation
commercial bank
commercial code
commercial college
commercial complex
commercial credit
commercial engineer
commercial engineering
commercial enterprise
commercial fertilizer
commercial law
commercial letter of credit
commercial paper
commercial pilot
commercial program
commercial relations
commercial school
commercial transaction
commercial transport
commercial traveler
commercial traveller
commercial vehicle
comminuted fracture
commissary clerk
commissary court
commissary general
commissary steward
commission agent
commission day
commission house
commission merchant
commission officer
commission pennant
commission plan
commission-manager plan
commissioned officer
commissioner for oaths
commissioner-general
commit a
commit a crime
commit a gaffe
commit a solecism
commit adultery
commit an assault upon
commit an atrocity
commit an outrage
commit burglary
commit carnage
commit genocide
commit hara-kiri
commit mass destruction
commit mass murder
commit murder
commit robbery
commit sacrilege
commit sin
commit suicide
commit to an institution
commit to memory
commit to prison
commit to writing
commit yourself
commit yourself to
commitment to memory
committee consideration
committee of correspondence
committee of one
committee of the whole
committee stage
commode step
commodity dollar
commodity exchange
commodity money
commodity paper
common alum
common ancestry
common assent
common belief
common bond
common brad
common carotid
common carotid artery
common carrier
common case
common chord
common coke
common cold
common consent
common cost
common council
common councilman
common denominator
common descent
common divisor
common effort
common endeavor
common enterprise
common factor
common fee
common fraction
common gender
common good
common ground
common iliac artery
common informer
common knowledge
common laborer
common law
common logarithm
common man
common market
common measure
common men
common meter
common metre
common multiple
common nail
common name
common noun
common oak
common occurrence
common of turbary
common opal
common ownership
common people
common person
common phrase
common pitcher plant
common pleas
common practice
common prayer
common property
common rafter
common reed
common rhythm
common room
common ruck
common run
common run of things
common salt
common saying
common school
common scold
common seal
common seaman
common sennit
common sense
common snipe
common soldier
common sort
common source
common speech
common stock
common sulfur
common talk
common tannin
common tern
common time
common topaz
common touch
common variety
common weal
common wheat
common year
common-law
common-law court
common-law estoppel
common-law jurisdiction
common-law lien
common-law marriage
common-law trust
common-law wife
common-room
common-variety
commonly known
commonplace book
commonplace expression
commonsense philosopher
commonsense philosophy
commonsense realism
commonsense realist
commonwealth day
communal effort
communal enterprise
communal marriage
commune with
commune with God
commune with the spirits
communicate orally
communicate verbally
communicate with
communication cord
communication engineering
communication explosion
communication leak
communication room
communication satellite
communication technology
communication theory
communication trench
communications engineer
communications industry
communications media
communications medium
communications net
communications network
communications receiver
communications relay satellite
communications revolution
communications satellite
communications ship
communications theory
communications zone
communion cloth
communion cup
communion hymn
communion in both kinds
communion in one kind
communion of saints
communion plate
communion rail
communion table
communist front
community at large
community center
community centre
community chest
community church
community college
community home
community hospital
community house
community nurse
community of interest
community of interests
community property
community school
community sentiment
community sing
community singing
community supervision
community theater
community trust
commutating pole
commutation ticket
commutative algebra
commutative contract
commutative law
commutator filling
commutator group
commutator motor
commutator pitch
commutator shell
commutator subgroup
compact car
compact of
companion bills amendment
companion cell
companion crop
companion cropping
companion flange
companion hatch
companion hatchway
companion ladder
companion piece
companion set
companion star
companionate marriage
company headquarters
company man
company officer
company reserve line
company secretary
company sergeant-major
company store
company town
company union
comparative anatomy
comparative degree
comparative estimate
comparative ethics
comparative government
comparative grammar
comparative judgment
comparative linguist
comparative linguistics
comparative literature
comparative medicine
comparative method
comparative musicology
comparative philology
comparative psychology
comparative relation
comparative religion
comparative scrutiny
comparative statement
compare and contrast
compare notes
compare point by point
compare to
compare with
compared to
compared with
comparison lamp
comparison microscope
comparison of variables
comparison shopper
comparison shopping
comparison slip
comparison spectrum
comparison star
comparison test
compass about
compass bearing
compass board
compass bowl
compass brick
compass calipers
compass card
compass corrector
compass course
compass deviation
compass deviation card
compass dial
compass direction
compass direction or course
compass error
compass flower
compass heading
compass jellyfish
compass key
compass needle
compass north
compass of mind
compass plane
compass plant
compass rafter
compass reading
compass roof
compass rose
compass saw
compass timber
compass weed
compass window
compass-headed
compensate for
compensated balance
compensated ionization chamber
compensated motor
compensating balance
compensating gear
compensating operation
compensation act
compensation balance
compensation bar
compensation insurance
compensation law
compensation neurosis
compensation pendulum
compensation water
compensatory damages
compensatory interest
compensatory reaction
compensatory spending
compete against
compete with
competitive market
compilation film
compiling routine
complain against
complain loudly
complain of
complement deviation
complement fixation
complement fixation test
complement-binding
complement-fixing
complementary angle
complementary angles
complementary cells
complementary color
complementary colour
complementary distribution
complementary wavelength
complete a purchase
complete answer
complete circuit
complete fertilizer
complete fracture
complete quadrilateral
complete works
completely normal space
completely regular space
completing the square
completion test
complex algebra
complex circularity
complex cone
complex conjugate
composition metal
composition of differences
composition of forces
composition pedal
composition piston
composition roofing
composition series
compost heap
compound centrifugal force
compound engine
compound eye
compound flower
compound for
compound fraction
compound fracture
compound function
compound interest
compound interval
compound leaf
compound lens
compound magnet
compound measure
compound microscope
compound motor
compound number
compound ovary
compound pendulum
compound radical
compound sentence
compound time
compound winding
compound words
compound-complex
compound-complex sentence
compound-wound
compregnated wood
comprehensive examination
comprehensive school
compressed air
compressed petroleum gas
compressed score
compressed-air drill
compressibility drag
compression bib
compression coupling
compression cup
compression ignition
compression member
con affetto
con agilita
con agitazione
con amore
con anima
con artist
con brio
con dolore
con espressione
con fuoco
con game
con man
con moto
con over
con rod
con sordino
con spirito
con your part
con-
conario-
concatenation control
concatenation of events
concatenation system
concave lens
concave mirror
concavo-
concavo-concave
concavo-convex
concavo-convex lens
conceal your motive with
conceal yourself
conceded fact
conceit yourself
conceivably possible
conceive a dislike to
concentrate on
concentrate sprayer
concentrate the mind
concentrate the thoughts
concentrate upon
concentration camp
concentration cell
concentration ring
concentric cable
conceptual art
conceptual artist
conceptual crudity
conceptual realism
concurrent jurisdiction
concurrent resolution
concurring opinion
concussion bellows
concussion bomb
concussion fuse
concussion grenade
concussional concussant
condemn to death
condemn to eternal punishment
condemn to hell
condemn yourself
condemned cell
condensation point
condensation polymerization
condensation trail
condensed milk
condensed version
condenser antenna
condenser microphone
condensing engine
condensing hygrometer
condensing lens
condictio triticaria
condign punishment
conditio sine qua non
condition of things
conditional convergence
conditional probability
conditional sale
conditioned reflex
conditioned response
conditioned stimulus
condole with
conduce to
conduce to health
conducive to
conduct a funeral
conduct a poll
conduct a trial
conduct an inquiry
conduct money
conduct pleadings
conduct to
conduct unbecoming a gentleman
conduct yourself
conduct yourself in the face of
conduct yourself toward
conduct yourself vis-a-vis
conduct-money
conduction current
conduction electron
conductometric titration
conductor head
conductor plug
conductor rail
conductor's baton
conduit box
conduit pipe
conduit railway
conduit system
cone adaptation
cone anchor
cone bearing
cone bit
cone brake
cone center
cone chuck
cone clutch
cone compass
cone coupling
cone delta
cone friction clutch
cone gamba
cone joint
cone key
cone lathe
cone mandrel
cone mill
cone number
cone of a complex
cone of silence
cone off
cone pepper
cone plate
cone pulley
cone shaver
cone shell
cone snail
cone speaker
cone tree
cone valve
cone vision
cone wheat
cone wheel
cone-billed
conform with
conformable to
conformal projection
conformation other-direction
conformity to fact or reality
confound it
confront each other
confront with
confrontation politics
confrontation therapy
confused flour beetle
confusion of sounds
confusion of tongues
confusion worse confounded
conga drum
congee house
congenital defect
congenital disease
congenital heart disease
congenital hypophosphatasia
congenital idiot
congenital immunity
congenital syphilis
conger doust
conger eel
conger-eel
congestive heart failure
conglomerate gland
conglomerate corporation
congo dye
congo eel
congo red
congo snake
congratulate yourself
congregational christian
congress boot
congress gaiter
congress shoe
congressional caucus
congressional district
congressional election
congressional immunity
congressional investigation
congressional medal
congressman-at-large
congressmen-at-large
congruence sign
congruent with
connective tissue
conning tower
conning tower hatch
conniption fit
connive at
connoisseur of food
connoisseur of wine
conoido-hemispherical
conoido-rotundate
conquering hero
conscience clause
conscience money
conscience-proof
conscience-smitten
conscience-stricken
conscience-striken
conscientious objector
conscious of
conscious of your place
conscious self
consciousness raising
consciousness-expanding
consciousness-expansion
conscript fathers
conscrate to
conscrated bread
conscrated elements
conssecutive intervals
consensus gentium
consensus of opinion
consensus omnium
consensus politics
consent by implication
consent decree
consent rule
consent to
consent to silently
consenting adult
consequent stream
conservation of angular momentum
conservation of charge
conservation of energy
conservation of linear momentum
conservation of mass
conservation of mass and energy
conservation of matt
conservation of matter
conservation of momentum
conservation of parity
conservative treatment
consider every angle
consider pro and con
consider the circumstances
consider the source
consign to a place
consign to hell
consign to oblivion
consign to the grave
consign to the scrap heap
consigned to oblivion
consignment marketing
consignment note
consist in
consist of
consist with
consistent with
consisting of
consolation game
consolation match
consolation prize
console table
consolidated annuities
consolidated fund
consolidated school
consolidated stock
consolidating company
consonant chord
consonant shift
consonant shifting
consonant system
consonantal alliteration
consort with
conspicuous by its absence
conspicuous consumption
conspicuous gallantry
conspicuous waste
constable glass
constant attention
constant flow
constant friend
constant of gravitation
constant of integration
constant pressure
constant thrust
constant-chord-rotor helicopter
constantly recur to
constantly revert to
consist of a whole
constituted authority
constitutional amendment
constitutional convention
constitutional freedom
constitutional government
constitutional guarantees
constitutional law
constitutional lawyer
constitutional medicine
constitutional monarch
constitutional monarchy
constitutional psychology
constitutional referendum
constitutional rights
constitutional syphilis
constitutional therapy
constitutional validity
constrain yourself
constrict your views
construct form
construct state
construction bond
construction engineer
construction engineering
construction modifier
construction paper
constructional homonymity
constructive change
constructive imagination
constructive interference
consul general
consular agent
consular service
consulate general
consulates general
consuls general
consult with
consult with your pillow
consult your own wishes
consult your pillow about
consultation room
consultative assembly
consulting room
consume away
consume time
consumed by fire
contagious epithelio
contagious epithelioma
contagious magic
contain yourself
contained in
container board
container car
container ship
contango day
conte-crayon
contemplate in the imagination
contemplation of the past
contemplative life
contemporary literature
contempt of Congress
contend about
contend against
contend for
contend with
content analysis
content subject
content word
content yourself with
contents page
contest a seat
contest of fleetness
contest of speed
contested election
contextual definition
continent-wide
continental breakfast
continental climate
continental code
continental divide
continental drift
continental island
continental quilt
continental shelf
continental slope
continental stitch
continental system
contingency fund
contingency method
contingency reserve
contingency table
contingent beneficiary
contingent fee
contingent fund
contingent interest
contingent liability
contingent on
contingent reserve
continuance in action
continuation day
continuation school
continue the same
continue to be
continue to exist
continued fever
continued fraction
continued proportion
continuing education
continuity clerk
continuity equation
continuity girl
continuity writer
continuous brake
continuous casting
continuous creation
continuous creation theory
continuous miner
continuous spectrum
continuous stationery
continuous tenure
continuous tone
continuous wave oscillator
continuous wave radar
continuous waves
continuous-expansion engine
continuous-wave transmitter
continuum hypothesis
continuum theory
contour bob
contour chair
contour check
contour curtain
contour curve
contour farming
contour feather
contour feathers
contour follower
contour integration
contour interval
contour line
contour map
contour ploughing
contour plowing
contour sheet
contra bassoon
contra bonos mores
contra trombone
contra-
contra-acting
contra-approach
contra-dance
contra-guide rudder
contra-indicant
contra-indicate
contra-indication
contra-ion
contra-lode
contra-propeller construction
contra-related
contra-remonstrant
contra-rotating airscrews
contra-rotation
contraband of war
contraceptive foam
contract a habit
contract an engagement
contract bond
contract bridge
contract by deed
contract for
contract matrimony
contract of record
contract out
contract practice
contract quasi
contract yourself
contractile cell
contraction fit
contraction joint
contraction rule
contraction theory
contradict itself
contraria contrariis curantur
contrarotating propeller
contrary assertion
contrary motion
contrary terms
contrary to
contrary to all expectation
contrary to fact
contrary to law
contrary to order and discipline
contrary to reason
contrary, the
contrary-minded
contrast bath
contrast control
contrast medium
contrast with
contrastive juxtaposition
contrate wheel
contre-
contre-dance
contre-partie
contribute to
contribution clause
contributory negligence
control account
control action
control agent
control assay
control board
control center
control chart
control column
control desk
control electrode
control element
control engineer
control experiment
control feelings
control grid
control group
control indicator
control mark
control means
control mechanism
control mechanisms
control panel
control relay
control resistor
control rod
control room
control signals
control station
control stick
control surface
control survey
control system
control the carnal man
control the fleshly lusts
control the old Adam
control the price of
control tower
control transformer
control valve
control wires
control your appetites
control yourself
controllable-pitch
controlled access highway
controlled association
controlled association test
controlled experiment
controlled price
controlled quantity
controller general
controlling account
controlling depth
controversial point
conus medullaris
conval lily
convalescent home
convalescent hospital
convected heat
convection current
convective activity
convective discharge
convector heat
convenience food
convenient to
convent cloth
convent school
convention hall
conventional phrase
conventional representation
conventional symbol
conventional usage
conventional war
conventional warfare
conventional weapons
conventual prior
convergence frequency
convergence of events
convergency factor
convergent evolution
convergent squint
convergent strabismus
convergent thinking
converging lens
conversant with
conversation chair
conversation piece
conversational English
conversational partner
conversational quality
converse in
converse motion
converse with
conversion cost
conversion factor
conversion hysteria
conversion neurosis
conversion ratio
conversion reaction
conversion table
conversion value
convert into cash
convert to
convert to use
converted steel
converter reactor
convertible bond
convertible coupe
convertible debenture
convertible preferred stock
convertible securities
convertible sedan
convertible top
convex hull
convex lens
convex mirror
convex point set
convex polygon
convex-concave
convexo-
convexo-concave
convexo-convex
convexo-plane
convey an impression of
conveyor belt
conveyor chain
convict goods
convict yourself
convince to the contrary
convince yourself
convolvulus moth
convulsion root
convulsive therapy
cony-catch
coo-coo
cooch dance
cooch show
coochie show
coochin york
cooee bird
cook accounts
cook off
cook out
cook stove
cook up
cook wrasse
cook your goose
cook-general
cook-out
cooked-up
cookery book
cookery stove
cookie cutter
cookie press
cooking-range
cooks-general
cooky cutter
cool acceptance
cool as a cucumber
cool bag
cool breeze
cool color
cool down
cool head
cool it
cool jazz
cool judgment
cool million
cool off
cool off the economy
cool out
cool the economy
cool your heels
cool-headed
cool-headedly
cool-headedness
cooling breeze
cooling degree-day
cooling down
cooling of the economy
cooling off
cooling off of the economy
cooling system
cooling-card
cooling-off
cooling-off period
coom-ceiled
coon bear
coon cat
coon dog
coon's age
coonskin cap
coop in
coop up
cooped-in
cooper's-wood
cooperative apartment
cooperative apartment house
cooperative bank
cooperative credit union
cooperative farm
cooperative society
cooperative store
coopered joint
coordinate bond
coordinate clause
coordinate geometry
coordinate paper
coordinate system
coordinated operations
coordinated panel
coordinating conjunction
coordination complex
coordination compound
coordination number
coot-footed
cooter grass
cootie garage
cop a plea
cop out
cop-out
cop-rose
copaiba balsam
copaiba oil
copia resin
copaiva oil
copaiye wood
copal ether
cope chisel
cope cutter
cope with
cope-stone
copen blue
copenhagen blue
coping saw
coping stone
copper acetate
copper acetoarsenite
copper arsenite
copper barilla
copper beech
copper bender
copper brazer
copper caster
copper cyanide
copper engraver
copper extractor
copper foil
copper hydroxide
copper iris
copper mill
copper millman
copper mine
copper miner
copper mining
copper pyrites
copper red
copper refiner
copper refinery
copper smelter
copper spot
copper sulfate
copper sulphate
copper worker
copper-alloyed
copper-bearing
copper-bellied
copper-belly
copper-bottomed
copper-coated
copper-colored
copper-covered
cork tree
cork up
cork-bark elm
cork-barked
cork-bearing
cork-boring
cork-cutting
cork-forming
cork-grinding
cork-heeled
cork-lined
cork-tipped
corking pin
corking up
corking-pin
corkscrew flower
corkscrew grass
corkwood cotton
corky-headed
corky-winged
cormo-
corn belt
corn borer
corn bread
corn bunting
corn cackle
corn cake
corn cleaner
corn cockle
corn color
corn crake
corn dab
corn dodger
corn drier
corn earworm
corn exchange
corn factor
corn field
corn flakes
corn flour
corn fritter
corn god
corn grass
corn grinder
corn grits
corn huller
corn law
corn lily
corn liquor
corn marigold
corn mayweed
corn meal
corn mint
corn muffin
corn oil
corn on the cob
corn picker
corn picking
corn pit
corn pone
corn popper
corn poppy
corn root aphid
corn rose
corn row
corn salad
corn shock
corn shocker
corn shredder
corn shuck
corn shucking
corn silk
corn smut
corn snake
corn snow
corn spirit
corn stack
corn stubble
corn sugar
corn syrup
corn tash
corn tester
corn thresher
corn whiskey
corn whisky
corn-beads
corn-cob
corn-colored
corn-cracker
corn-crake
corn-devouring
corn-ear worm
corn-eater
corn-exporting
corn-fed
corn-feeding
cornflower blue
cornice brake
corno di caccia
corno flute
cornstalk disease
cornstalk pine
cornstarchy airs
cornu ammonis
cornucopia leg
cornucopia sofa
corny joke
corollæ limb
corolla tube
coromandel wood
corona australis
corona borealis
corona discharge
corona lucis
corona radiata
coroneæ radiatae
coronal roots
coronal suture
coronary artery
coronary band
coronary cushion
coronary heart disease
coronary insufficiency
coronary occlusion
coronary ring
coronary thrombosis
coronation oath
coroner's inquest
coroner's jury
coronet braid
coronet of rank
corozo nut
corpora allata
corpora callosa
corpora cardiaca
corpora lutea
corpora striata
corporal punishment
corporal’s guard
corporate arms
corporate body
corporate bond
corporate headquarters
corrector plate
correlation coefficient
correlation ratio
correlative conjunction
correspond to
correspond with
correspondence column
correspondence course
correspondence principle
correspondence school
correspondence theory
corridor of time
corridors of time
corroboratory evidence
corrosion borders
corrosive mercury chloride
corrosive sublimate
corrugated iron
corrugated paper
corrugation irrigation
corrupt administration
corrupt politician
corrupt practices act
corruption of blood
corruption of speech
corset cover
corset designer
corsetior corsetier
cortex parenchyma
cortical epilepsy
cortical tissue
cortico-
corydalis green
cos lettuce
cosine circle
cosmetic dermatitis
cosmetic operation
cosmetic surgery
cosmic constant
cosmic dust
cosmic evolution
cosmic noise
cosmic particle
cosmic particles
cosmic philosopher
cosmic philosophy
cosmic radiation
cosmic ray
costal margin
costal vein
costal-nerved
costard-monger
costing-out
costless thing
costo-
costume designer
costume drama
costume jewellery
costume jewelry
costume party
costume piece
costus oil
cosy along
cot bar
cot case
cot death
cotarnine hydrochloride
cote-hardie
cotelette de mouton
cotelette de porc frais
cotelette de veau
cotta grass
cottage bonnet
cottage cheese
cottage china
cottage fried potatoes
cottage hospital
cottage industry
cottage loaf
cottage piano
cottage pie
cottage pudding
cottage tulip
cottage window
cotter drill
cotter file
cotter mill
cotter pin
cotter slot
cotter way
cottier system
cotton anthracnose
cotton aphid
cotton back
cotton bagging
cotton baller
cotton batting
cotton belt
cotton bill
cotton boll
cotton bollworm
cotton broker
cotton bush
cotton buyer
cotton cake
cotton cambric
cotton candy
cotton chiffon
cotton chopper
cotton cleaner
cotton comber
cotton coverer
cotton crepe
cotton cutter
cotton damask
cotton dryer
cotton duck
cotton dyer
cotton factor
cotton factory
cotton feeder
cotton fern
cotton field
cotton filler
cotton flannel
cotton floater
cotton gin
cotton ginner

cotton gin

cotton grass

cotton grower

cotton gum
cotton harvester
cotton jenny

cotton lint
cotton linters
cotton lord

cotton mill

cotton mixer

cotton moth

cotton mouse

cotton mouth

cotton mouths

cotton mule

cotton netting
cotton oil
cotton on
cotton opener
cotton packer
cotton picker
cotton plant
cotton plantation
cotton planter
cotton plugger
cotton plush
cotton pongee
cotton powder
cotton preparer
cotton press
cotton print
cotton printer
cotton raiser
cotton rat
cotton rock
cotton root rot
cotton rose
cotton rush
cotton rust
cotton sampler
cotton seed
cotton shipper
cotton sled
cotton sorter
cotton speeder
cotton spinner
cotton spooler
cotton stainer
cotton stripper
cotton sugar
cotton sweep
cotton tapestry
cotton teal
cotton teaser
cotton thistle
cotton thread
cotton tie
cotton to
cotton tree
cotton twist
cotton twister
cotton wadding
cotton warehouseman
cotton warp
cotton waste
cotton weigher
cotton wick
cotton wicking
cotton wilt
cotton winder
cotton wool
cotton works
cotton worm
cotton yarn
cotton-backed
cotton-baling
cotton-bleaching
cotton-clad
cotton-covered
cotton-dyeing
cotton-ginning
cotton-growing
cotton-knitting
cotton-picking
cotton-planting
cotton-printing
cotton-producing
cotton-root bark
cotton-sampling
cotton-sick
cotton-spinning
cotton-weaving
cotton-wicked
cottonseed cake
cottonseed feed
cottonseed flour
cottonseed meal
cottonseed oil
cottonseed tree
cottontail rabbit
cottony cloud
cottony jujube
cottony-cushion scale
cotyl-
cou-cou
couch bed
couch grass
couch in terms
couch maker
couch roll
couch wheat
couch your lance
couch, the
couched harp
couching stitch
cough drop
cough drops
cough medicine
cough mixture
cough syrup
cough up
could be
could sink through the floor
couldn't care less about
coulee cricket
couleur de rose
coulomb meter
coumarone resin
coumarone resins
coumarone-indene
coumarone-indene resin
council bill
council board
council fire
council house
council of ministers
council of state
council of war
council school
council table
council tool
council-manager plan
counsel of perfection
counsel-keeper
counselor-at-law
counselors-at-law
count against
count book
count calories
count down
count for
count heads
count hook
count in
count me out
count noses
count noun
count number
count of
count off
count on
count out
count palate
count sheep
count the beats
count ties
count up
count upon
count votes
count wheel
count-rate meter
countably additive function
countably compact set
counted on
counter apse
counter borer
counter check
counter electromotive force
counter image
counter jumper
counter relief
counter scale
counter septum
counter service
counter stern
counter table
counter timber
counter to
counter to your preferences
counter tube
counter wall
counter word
counter-
counter-acquittance
counter-agency
counter-approach
counter-arch
counter-attraction
counter-barry
counter-battery
counter-beam
counter-bill
counter-bore
counter-bouille
counter-brace
counter-carte
counter-cast
counter-caster
counter-chevoned
counter-claim
counter-clockwise
counter-coloured
counter-company
counter-couchant
counter-culture
counter-current
counter-deed
counter-disengage
counter-drain
counter-draw
counter-earth
counter-embattled
counter-embowed
counter-ermine
counter-evidence
counter-extension
counter-faced
counter-faller
counter-fessed
counter-fissure
counter-force
counter-gauge
counter-gear
counter-guard
counter-hem
counter-indication
counter-influence
counter-ion
counter-irritant
counter-jumper
counter-lath
counter-letter
counter-lode
counter-marque
counter-motion
counter-move
counter-naiant
counter-nebule
counter-off
counter-opening
counter-paled
counter-parade
counter-parole
counter-party
counties palatine
counting glass
counting heads
counting house
counting machine
counting noses
counting number
counting on the fingers
counting room
counting scales
counting tube
counting-out rhyme
countless as the sands
countless as the stars
countrer-
country almond
country bank
country bishop
country blues
country borage
country bumpkin
country club
country cousin
country damage
country dance
country dancer
country dancing
country day school
country doctor
country fig
country gentleman
country gooseberry
country hide
country house
country jake
country licorice
country mallow
country mile
country music
country party
country peach
country pepper
country rock
country seat
country store
country town
country wallah
country walnut
course of things
course of time
course protractor
coursing joint
court Christian
court bond
court bouillon
court calendar
court card
court cards
court christian
court circular
court cupboard
court dance
court danger
court day
court destruction
court dress
court fool
court game
court gray
court guide
court hand
court leet
court martial
court of admiralty
court of appeals
court of arbitration
court of assize
court of attachments
court of chancery
court of claims
court of common pleas
court of conscience
court of domestic relations
court of dustyfoot
court of equity
court of errors
court of first instance
court of guard
court of honor
court of honour
court of inquiry
court of justice
court of last resort
court of law
court of love
court of piepoudre
covering up
coversed sine
covert cloth
covert coat
covert way
covert-baron
covin-tree
cow ant
cow barn
cow basil
cow bean
cow beet
cow blackbird
cow bunting
cow byre
cow chervil
cow chips
cow clover
cow cocky
cow college
cow corn
cow creamer
cow cress
cow flops
cow garlic
cow grass
cow hand
cow hock
cow keeper
cow killer
cow lily
cow oak
cow parsley
cow parsnip
cow pats
cow pillow
cow pilot
cow plant
cow poison
cow pony
cow rattle
cow shark
cow sorrel
cow testing
cow thistle
cow town
cow tree
cow vetch
cow's tail
cow-bane
cow-boy
cow-cutting horse
cow-eyed
cow-fat
cow-fish
cow-goddess
cow-headed
cow-hide
cow-hitch
cow-hocked
cow-itch
cow-lice
cow-mumble
cow-nosed
cow-pox
cow-stealing
cow-tongue
cowboy boot
cowboy boots
cowboy hat
cowboy pool
cowboy saddle
cowboys and Indians
cowhage cherry
cowl lamp
cowl neckline
cowl-shaped
cowled night
cowpea weevil
cowpea wilt
cowper's gland
cowrie pine
cowry bird
cowslip wine
coxo-femoral
coxsackie virus
coy Spring
coy duck
coyote blast
coyote weed
coyote-brush
coyote-bush
cozy chat
cozy fire
crab Louis
crab apple
crab cactus
crab canon
crab claw
crab float
crab grass
crab harrow
crab locomotion
crab locomotive
crab louse
crab meat
crab nut
crab oil
crab plover
crab pot
crab reel locomotive
crab spider
crab stock
crab thistle
crab tree
crab winch
crab yaws
crab-eating
crab-faced
crab-fish
crab-grass
crab-harrow
crab-plover
crab-shed
crab-sidle
crabbed age
crabbed hand
crabbing machine
crabbeater seal
crack a book
crack a crib
crack a joke
crack a safe
crack a smile
crack down
crack down on
crack of dawn
crack of doom
crack off
crack on
crack on sail
crack open
crack shot
crack the whip
crack up
crack willow
crack wise
crack your brains
crack your invention
crack-
crack-loo
crack-off
crack-the-whip
crack-up
crack-willow
cracked on
cracked voice
cracked-wheat bread
cracker bonbon
cracker jack
cracker mill
cracker-barrel
cracker-off
cracker-on
cracker-open
crackers-on
cracking still
cracklin’ bread
crackling bread
crackling fire
cradle bar
cradle book
cradle cannon
cradle holding
cradle maker
cradle orchid
cradle roll
cradle roof
cradle scythe
cradle snatcher
cradle snatching
cradle vault
cradle-shaped
cradle-to-grave security
craft guild
craft paper
craft union
craft unionist
crafty rascal
crag martin
crag swallow
crag-and-tail
crag-bound
crag-built
crag-carven
crag-covered
crag-fast
crake-needles
cram down your throat
cram in
cram the mind
cram the mind with
cram up
cram with facts
cram-full
crambo clink
crambo jingle
crammed full
cramp bark
cramp bone
cramp iron
cramp ring
cramp your style
cramp-iron
cramped hand
cramped ideas
cranberry blast
cranberry bog
cranberry bush
cranberry gall
cranberry glass
cranberry gourd
cranberry marsh
cranberry sauce
cranberry scald
cranberry tree
cranberry worm
crance iron
crane driver
crane fly
crane gray
crane line
crane the neck
crane your neck
crane's-bill
crane-fly
cranging hook
crani-
cranial index
cranial nerve
cranio-
cranio-acromial
cranio-aural
craniosacral nervous system
cranium amulet
crank arm
crank axle
crank brace
crank chain
crank disk
crank handle
crank hanger
crank in
crank letter
crank path
crank pit
crank plane
crank press
crank shaper
crank throw
crank up
crank web
crank wheel
crank-driven
crank-sided
crap around
crap game
crap grass
crap out
crap shooter
crap shooting
crap table
crapaud stone
crapaudine door
crape fern
crape jasmine
crape myrtle
crape needle
crape ring
crape-fish
crappit head
crappit-head
crash barrier
crash boat
crash cymbal
crash dive
crash helmet
crash in
crash into
crash land
crash landing
crash of thunder
crash out
crash pad
crash program
crash the gates
crash wagon
crash wall
crash-dive
crash-dived
crash-diving
crash-dove
crash-land
crash-landing
crashing bore
crass ignorance
cratch cradle
crate maker
crater basin
crater-shaped
crave after
craw-craw
crawfish out
crawl after
crawl box
crawl in
crawl into your shell
crawl out of
crawl space
crawl with
crawl-a-bottom
crawl-up
crawler tractor
crawling peg
crayon board
crayon engraving
crazed-headed
crazier than a bedbug
crazier than a coot
crazier than a loon
crazy about
crazy bone
crazy fancy
crazy for
crazy house
crazy idea
crazy like a fox
crazy over
crazy pavement
crazy paving
crazy quilt
crazy to
crazy top
crazy-drunk
crazy-headed
crazy-looking
crazy-mad
crazy-pate
crazy-paving
crazy-work
cream beige
cream buff
cream bush
cream buyer
cream caustic
cream cheese
cream cooler
cream cracker
cream dipper
cream freezer
cream gatherer
cream gauge
cream ice
cream ladle
cream nut
cream of society
cream of tartar
cream of the crop
cream of the jest
cream pail
cream pitcher
cream puff
cream puff paste
cream puff pasted
cream puff pastry
cream sauce
cream separator
cream sherry
cream soda
cream soup
cream stirrer
cream tea
cream tester
cream tube
credit currency
credit hour
credit instrument
credit insurance
credit life insurance
credit limit
credit line
credit man
credit manager
credit memo
credit memorandum
credit money
credit rating
credit slip
credit squeeze
credit standing
credit to
credit to your account
credit union
credit with
credulous person
creedal statement
creek bed
creek broadbill
creek chub
creek duck
creek fern
creek grass
creek gum
creek maple
creek nettle
creek sedge
creek thatch
creep feeder
creep in
creep into a corner
creep into the good graces of
creep out of
creep up on
creep with
creep-fed
creep-feed
creep-feeding
creeper fowl
creeper tractor
creepie-peepie
creeping Charlie
creeping Jennie
creeping barberry
creeping barrage
creeping bent
creeping bent grass
creeping buttercup
creeping cinquefoil
creeping eruption
creeping fescue
creeping flesh
creeping forget-me-not
creeping juniper
creeping like snail
creeping lily-turf
creeping myrtle
creeping of the flesh
creeping sheet
creeping sickness
creeping snowberry
creeping socialism
creeping thing
creeping thistle
creeping thyme
creepy-crawly
creme Yvette
creme d'amande
creme de cacao
creme de cassis
creme de la creme
creme de menthe
creme de moka
creme de noyau
cremorne bolt
crenate-leaved
crenate-toothed
crenato-
crenelated molding
creole dialect
creole language
creole-fish
creole-fishes
creolized language
creosote bush
creosote carbonate
creosote oil
crepe Suzette
crepe de Chine
crepe de chine
crepe hair
crepe lisse
crepe marocain
crepe meteor
crepe myrtle
crepe paper
crepe rubber
crepe suzette
crepe wool
crepe-backed
crepe-paper
crepuscular light
crepuscular ray
crescendo pedal
crescent moon
crescent operation
crescent roll
crescent spot
crescent truss
crescent-formed
crescent-lit
crescent-pointed
crescent-shaped
crescit eundo
cresol iodide
cresol red
cress family
cress green
cress rocket
crest cloud
crest coronet
crest factor
crest rail
crest table
crest tile
crest voltmeter
crest-fallen
crested auklet
crested dog's-tail
crested flycatcher
crested hair grass
crested iris
crested lizard
crested poppy
crested swift
crested tit
cresylic acid
cretaceo-
crevalle jack
crew chief
crew compartment
crew cut
crew haircut
crew list
crew neck
crew neckline
crew socks
crew trainer
crew-cropped
crew-neck sweater
crew-necked
crewel needle
crewel stitch
crewel yarn
crewel-work
cri de coeur
cri de guerre
cri du cour
crib biting
crib death
crib strap
crib-bit
crib-bite
crib-biter
crib-biting
crib-bitten
cribbage board
crick-crack
cricket ball
cricket bat
cricket bird
cricket chair
cricket frog
cricket ground
cricket table
cricket teal
cricket-bat willow
crico-
cried up
crim con
crime against humanity
crime against nature
crime of passion
crime passionel
crime sheet
crime wave
criminal act
criminal anthropology
criminal assault
criminal cohabitation
criminal congress
criminal contempt
criminal conversation
criminal court
criminal investigation
criminal jurisdiction
criminal law
criminal lawyer
criminal psychology
criminal syndicalism
criminal syndicalist
criminal tendency
crimping brake
crimping house
crimping iron
crimping machine
crimping pin
crimpy-haired
crimson clover
crimson flag
crimson madder
crimson sage
crimson-banded
crimson-barred
crimson-billed
crimson-carmine
crimson-colored
crimson-dyed
crimson-fronted
crimson-lined
crimson-petaled
crimson-purple
crimson-scarfed
crimson-spotted
crimson-tipped
crimson-veined
crimson-violet
crinc-
cringe to
cringle-crangle
crini-
crinkle leaf
crinkle-crankle
crinkly-haired
crinkum-crankum
crinoline stretcher
crinum lily
crio-
cripple rafter
cripple stopper
crippling attack
cris de guerre
crisis theologian
crisis theology
crisp-leaved
crisped-leaved
crisping iron
crisping pin
criss-cross
crissal thrasher
crisscross inheritance
crisscross-row
critical altitude
critical angle
critical angle of attack
critical apparatus
critical bibliography
critical constant
critical constants
critical density
critical discernment
critical edition
critical idealism
critical journal
critical juncture
critical mass
critical moment
critical niceness
critical notice
critical path analysis
critical period
critical philosophy
critical point
critical pressure
critical ratio
critical realism
critical region
critical review
critical state
critical success
critical tem
critical temperature
critical volume
cross botonee
cross bourdonee
cross brace
cross bracing
cross break
cross bridging
cross buck
cross bun
cross complaint
cross correspondence
cross counter
cross cylinder
cross drawing
cross education
cross estoile
cross facet
cross fault
cross field
cross file
cross fire
cross fitche
cross fleury
cross flute
cross flux
cross forked
cross formee
cross fourchee
cross fox
cross gammadion
cross grain
cross grignolee
cross guard
cross hair
cross hairs
cross heading
cross hilt
cross index
cross keelson
cross keys
cross kick
cross liability
cross license
cross lock
cross lode
cross mint
cross modulation
cross moline
cross multiplication
cross multiply
cross of Calvary
cross of Cleves
cross of Lorraine
cross of St Lazarus
cross of lorraine
cross off
cross order
cross out
cross over
cross patee
cross peen
cross peen hammer
cross pommee
cross potent
cross press
cross product
cross ratio
cross recercelee
cross reference
cross relation
cross remainder
cross rhythm
cross sea
cross seat
cross section
cross sighting
cross signal
cross slide
cross spider
cross springer
cross strap
cross street
cross stroke
cross swords
cross swords with
cross tag
cross talk
cross the Rubicon
cross the Stygian ferry
cross the path of
cross the threshold
cross turret
cross up
cross vault
cross vaulting
cross vein
cross vine
cross whitefish
cross wind
cross wire
cross wires
cross your heart
cross your heart and hope to die
cross your mind
cross your palm
cross your palm with
cross your path
cross-
cross-adoring
cross-aisle
cross-appeal
cross-armed
cross-banded
cross-banding
cross-bar
cross-beak
cross-beam
cross-bearer
cross-bearing
cross-bearings
cross-beat escapement
cross-bedded
cross-bedding
cross-bench
cross-benched
cross-benchedness
cross-bencher
cross-bias
cross-biased
cross-biassed
cross-bill
cross-bind
cross-bombard
cross-bond
cross-bones
cross-bow
cross-bred
cross-breed
cross-bridge
cross-brush
cross-bun
cross-buttock
cross-buttocker
cross-carve
cross-channel
cross-lap
cross-lap joint
cross-latticed
cross-leaved
cross-legged
cross-leggedly
cross-leggedness
cross-level
cross-license
cross-licensed
cross-licensing
cross-lift
cross-light
cross-link
cross-locking
cross-lot bracing
cross-lot strut
cross-lots
cross-magnetizing field
cross-marked
cross-mate
cross-mated
cross-mating
cross-multiplication
cross-out
cross-out test
cross-over
cross-patch
cross-pawl
cross-peal
cross-piece
cross-piled
cross-plough
cross-plow
cross-ply
cross-point
cross-pollen
cross-pollenize
cross-pollinate
cross-pollinated
cross-pollinating
cross-pollination
cross-pollinize
cross-post
cross-purpose
cross-purposes
cross-question
cross-questionable
cross-vaulted
cross-vaulting
cross-vein
cross-veined
cross-ventilate
cross-ventilation
cross-vine
cross-voting
cross-way
cross-wind
cross-wind force
cross-worder
cross-wrapped
crossbar micrometer
crossbar shot
crossbar switching
crossbolt lock
crosscut chisel
crosscut file
crosscut method
crosscut saw
crosscut-saw file
crosse check
crossed fingers
crossed in love
crossed-h
crossed-out
crossing file
crossing over
crossing over and under
crossing sweeper
crossing the bar
crossing-out
crossing-over
crossjack brace
crossjack lift
crossjack yard
crossover network
crossword puzzle
crotch chain
crotch tongue
crotch veneer
croton bug
croton oil
croton-bug
croton-chloral hydrate
crotonic acid
crouch before
crouch ware
__crouch-ware__
croup kettle
croupous pneumonia
croupy down
crow blackbird
crow call
crow corn
crow duck
crow fig
crow flight
crow garlic
crow like a cock
crow like a rooster
crow ling
crow needle
crow onion
crow over
crow pea
crow pheasant
crow poison
crow sheaf
crow shrike
crow step
crow tit
crow to pick
crow to pluck
crow to pull
crow's foot
crow's nest
crow's nest model
crow's-feet
crow's-foot
crow’s-nest
crow’s-nest model
crow-bar
crow-bill
crow-flower
crow-garlic
crow-leek
crow-pheasant
crow-quill
crow-silk
crow-soap
crow-step
crow-stone
crow-toe
crow-tread
crow-victuals
crowberry family
crowd grass
crowd in
crowd of sail
crowd on sail
crowd out
crowd puller
crowd sail
crowd your luck
crowd-pleasing argument
crowding engine
crowfoot family
crowfoot grama
crowfoot grass
crowfoot violet
crown aloes
crown and anchor
crown animalcule
crown antler
crown bar
crown block
crown brace
crown cam
crown canker
crown canopy
crown cap
crown class
crown colony
crown cork
crown court
crown cutter
crown daisy
crown debt
crown density
crown escapement
crown filler
crown fire
crown gall
crown gate
crown gear
crown glass
crown gold
crown graft
crown grafting
crown green
crown gum
crown head
crown-of-jewels
crown-of-thorns
crown-paper
crown-piece
crown-post
crown-rump length
crown-scab
crown-shaped
crown-wheel
crown-wheel escapement
crown-work
crowned head
crowned with laurel
crowned with success
crowning achievement
crowning of the edifice
crowning touch
crownwort family
cruces ansatae
crucial moment
crucial period
crucial point
crucial test
cruciat-
crucible furnace
crucible steel
crucifixion thorn
crude oil
crude petroleum
crude rubber
crude stuff
crudeness of intellect
crudity of intellect
cruel and unusual punishment
cruel disappointment
cruel-hearted
cruet stand
cruise car
cruise missile
cruise ship
cruiser stern
cruiser weight
cruising missile
cruising radius
cruising speed
crumb brush
crumb of comfort
crumble into dust
crumble to dust
crupper bone
crusade for
crush bar
crush barrier
crush breccia
crush conglomerate
crush hat
crush one
crush plane
crush under an iron heel
crush your hope
crush zone
crusher sand
crushing burden
crushing defeat
crushing rejoinder
crushing rolls
crusily-fitchy
crust fold
crust fracture
crust roan
crust-hunt
crust-hunter
crust-hunting
crutch paralysis
crutch stake
crutch-cross
crutch-stick
crux ansata
crux capitata
crux commissa
crux decussata
crux gammata
crux immissa
crux ordinaria
cry aloud
cry at the top of your voice
cry back
cry back to
cry craven
cry down
cry for
cry for joy
cry for quarter
cry for the moon
cry havoc
cry of wolf
cry off
cry on
cry out
cry out against
cry out for
cry out on
cry out upon
cry over spilled
cry over spilled milk
cry pax
cry quits
cry shame upon
cry sour grapes
cry stinking fish
cry to
cry up
cry upon
cry wolf
cry your eyes
cry your eyes out
cry yourself blind
cry-
crying evil
crying shame
cryo-
cryo-aerotherapy
cryo-pump
cryolite glass
crypt-
cryptic mimicry
crypto-
cryptogenic epilepsy
cryptogenic infection
crystal ball
crystal carbonate
crystal class
crystal counter
crystal detector
crystal flower
crystal form
crystal gazer
crystal gazing
crystal glass
crystal gray
crystal habit
crystal lattice
crystal malt
crystal microphone
crystal pickup
crystal rectifier
crystal sand
crystal set
crystal system
crystal tea
crystal vinegar
crystal violet
crystal vision
crystal water
crystal-clear
crystal-clearness
crystal-dropping
crystal-flowing
crystal-gazer
crystal-girded
crystal-lattice constant
crystal-leaved
crystal-palace blue
crystal-palace green
crystal-producing
crystal-smooth
crystal-streaming
crystal-winged
crystalline lens
crystallographic axis
cub hunting
cub reporter
cub scout
cub shark
cub-drawn
cub-hunting
cuban heel
cubbridge head
cube ore
cube root
cube spar
cube steak
cube sugar
cube-shaped
cubeb camphor
cubeb oil
cubed steak
cubi-
cubic foot
cubic measure
culture system
culture trait
culture vulture
culture word
cultured pearl
cultus cod
cultus image
cultus-cod
culver hole
cum coupon
cum dividend
cum grano salis
cum laude
cum multus alii
cum warrants
cumara nut
cumin oil
cummin oil
cumu-cirro-stratus
cumul-
cumular-spherulite
cumulative distribution function
cumulative dividend
cumulative evidence
cumulative preferred stock
cumulative scoring
cumulative system
cumulative voting
cumulato-
cumulo-
cumulo-cirro-stratus
cumulo-cirrus
cumulo-nimbus
cumulo-stratus
cumulo-volcano
cumulonimbus calvus
cumulonimbus capillatus
cumulus cloud
cumulus congestus
cumulus fractus
cumulus humilis
cumulus mediocris
cumulus oophorus
cuneate lobe
cuneo-
cunning as a fox
cunning as a serpent
cunning person
cup and ball
cup and cover
cup barometer
cup bell
cup coral
cup custard
cup drill
cup escutcheon
cup fern
cup fungus
cup grease
cup hole
cup hook
cup joint
cup leather
cup lichen
cup maker
cup marker
cup moss
cup mushroom
cup nutseed
cup of Elijah
cup of bitterness
cup of tea
cup packing leather
cup plant
cup sculpture
cup set
cup shake
cup sponge
cup tie
cup turning
cup valve
cup washer
cup-and-saucer vine
cup-bearer
cup-headed
cup-mark
cup-marked
cup-moss
cup-shake
cup-shaped
cup-shot
cup-tied
cup-tossing
cupboard love
cupboard lover
cupid cake
curd cheese
curd soap
curdle the
curdle the blood
cure of souls
cure yourself of
cure-all
curie point
curious as a cat
curious mind
curious person
curl cloud
curl up
curl upwards
curl your lip
curl your lip at
curl-flowered
curled mallow
curled-leaved
curlew bug
curlew jack
curlew sandpiper
curlie-wurlie
curling die
curling dies
curling iron
curling irons
curling machine
curling paper
curling pins
curling press
curling punch
curling stone
curling tongs
curly clematis
curly grass
curly palm
curly top
curly-coated
curly-coated retriever
curly-haired
curly-headed
curly-locked
curly-pate
curly-pated
curly-polled
curly-toed
currant aphid
currant borer
currant bush
currant clearwing
currant fruit fly
currant leaf spot
currant moth
currant red
currant rust
currant sawfly
currant spanworm
currant stem girdler
currant tomato
currant tree
currant wine
currant worm
currant-leaf
currency bond
currency doctrine
currency metals
currency note
currency principle
current account
current assets
current breaker
current cost
current density
current electricity
current expenses
current gain
current gauge
current income bond
current indicator
current intensity
current liabilities
current limiter
current mark
current meter
current mill
current of air
current of events
current of fashion
current of ideas
current of thought
current of time
current price
current pulse
current quotation
current ratio
curtain knitter
curtain lecture
curtain lifter
curtain light
curtain line
curtain music
curtain net
curtain pin
curtain pole
curtain raiser
curtain ring
curtain rod
curtain roller
curtain shutter
curtain speech
curtain stretcher
curtain tune
curtain wall
curtain-raiser
curtains of fog and iron
curtal ax
curtal axe
curtal-ax
curtesy initiate
curule ax
curule chair
curvature invariant
curvature of field
curvature tensor
curve ball
curve fitting
curve of buoyancy
curve of displacement
curve of flotation
curve of loads
curve of resistance
curve of weights
curve-ball
curve-billed
curve-drawing meter
curve-fruited
curve-veined
curved-fruited
curved-horned
curved-veined
curvi-
curvilinear coordinate system
cusco bark
custodes morum
custom builder
custom hatching
custom house
custom mill
custom tailor
custom work
custom worker
custom-built
custom-cut
custom-house
custom-made
custom-tailored
customer agent
customer ownership
customer's broker
customer's man
customhouse broker
customs bond
customs broker
customs duty
customs house
customs union
customs-exempt
customs-house
custos morum
custos rotulorum
cut a caper
cut a corner
cut a crab
cut a dash
cut a dido
cut a feather
cut a figure
cut a figure in society
cut a lobster
cut a melon
cut a rug
cut a swath
cut across
cut adrift
cut along
cut and dried
cut and run
cut and thrust
cut and try
cut apart
cut at
cut away
cut back
cut both ways
cut capers
cut corners
cut crosswise
cut dead
cut diagonally
cut direct
cut down
cut down expenses
cut down on
cut down to size
cut drop
cut fine
cut glass
cut hunter
cut ice
cut in
cut in two
cut into
cut it
cut it fine
cut it out
cut loose
cut lots
cut nail
cut no ice
cut of your jib
cut off
cut off short
cut off with a shilling
cut off without a cent
cut off your spurs
cut open
cut out
cut out for
cut out of your will
cut plug
cut price
cut prices
cut rate
cut short
cut some ice
cut stone
cut string
cut the Gordian knot
cut the cards
cut the deck
cut the first turf
cut the ground from under
cut the ground from under one
cut the hair
cut the knot
cut the matter short
cut the melon
cut the mustard
cut the pie
cut the throat
cut through
cut time
cut to
cut to pieces
cut to ribbons
cut to the heart
cut to the quick
cut transversely
cut under
cut up
cut up bad
cut up nasty
cut up root and branch
cut up rough
cut velvet
cut work out for
cut you short
cut your eyeteeth
cut your eyeteeth on
cut your losses
cut your own throat
cut your teeth
cut your teeth on
cut your throat
cut your wisdom teeth
cut-and-cover
cut-and-dried
cut-and-dry
cut-and-try
cut-away
cut-back
cut-card work
cut-down
cut-finger
cut-flight conveyer
cut-glass
cut-grass
cyan flower
cyanic acid
cyanide gas
cyanide mill
cyanide process
cyanine blue
cyano group
cyano radical
cyano-
cyanoxygen bromide
cyanoxygen chloride
cyanuric acid
cybermated factory
cybernetic control
cybernetic technologist
cycad fern
cycas family
cycl-
cyclamen aldehyde
cyclamen mite
cycle billing
cycle form
cycle of erosion
cycle of indiction
cyclic AMP
cyclic GMP
cyclic group
cyclic neutropenia
cyclic pitch lever
cyclic shift
cyclical stock
cyclical unemployment
cyclo-
cyclo-cross
cycloid personality
cycloidal gear
cycloidal propulsion
cyclone cellar
cyclone center
cyclone collector
cyclone furnace
cyclone juice
cyclone separator
cyclone-proof
cyclopean concrete
cyclothymic personality
cylinder block
cylinder bore
cylinder desk
cylinder escapement
cylinder front
cylinder gate
cylinder glass
cylinder grinder
cylinder head
cylinder machine
cylinder metal
cylinder mill
cylinder oil
cylinder planer
cylinder press
cylinder pressman
cylinder reamer
cylinder saw
cylinder scale
cylinder seal
cylinder sinker
cylinder slasher
cylinder snake
cylinder splitter
cylinder-bored
cylinder-boring
cylinder-dried
cylinder-grinding
cylinder-shaped
cylindric-campanulate
cylindric-fusiform
cylindric-oblung
cylindric-ovoid
cylindric-subulate
cylindrical coefficient
cylindrical coordinates
cylindrical projection
cylindro-
cyma recta
cyma reversa
cyne-
cynic spasm
cyno-
cypress grass
cypress green
cypress knee
cypress koromiko
cypress lawn
cypress moss
cypress oil
cypress pine
cypress spurge
cypress thatch
cypress vine
cypress-leaf oil
cyprus black as e'er was crow
cyprus cat
cyrilla family
cyrt-
cyst-
cysti-
cystic fibrosis
cysto-
cyt-
cyto-
cytochrome reductase
cytochrome system
cytomegalic inclusion disease
d day
d layer
d region
d'Albert
d'Alembert
d'Alembert's test
d'Arblay
d'Holbach
d'Indy
d-
d-c
d-glucose
dB
dBV
dBW
dBa
dBm
dBm/m
dBrn
da Vinci
da capo
dab hand
daber locks
dactyl-
dactylic hexameter
dactylio-
dactylo-
dad-blamed
dad-blasted
dad-burned
dainty-eared
dainty-fingered
dainty-limbed
dainty-mouthed
dainty-tongued
dainty-toothed
dairy barn
dairy breed
dairy butter
dairy cattle
dairy cheese
dairy cooler
dairy country
dairy cow
dairy cows
dairy farm
dairy farmer
dairy farming
dairy house
dairy husbandry
dairy lunch
dairy milk
dairy product
dairy products
dairy room
dairy salt
dairy school
dairy society
dairy truck
dairy wagon
dairy-cooling
dairy-farming
dairy-fed
dairy-made
daisy bush
daisy chain
daisy cutter
daisy fleabane
daisy ham
daisy tree
daisy-blossomed
daisy-clipping
daisy-cutter
daisy-cutting
daisy-dappled
daisy-dimpled
daisy-painted
daisy-spangled
dak boat
dak bungalow
daker hen
daker-hen
dal segno
dalai lama
dale end
dale head
dale land
dale lander
dale-backed
dall sheep
dallis grass
dally away
dam up
dam-brod
damage feasant
damage your good name
damage-feasant
damascus steel
damask carpet
damask rose
damask steel
damask stitch
dame school
dame’s rocket
dame’s violet
dame’s-violet
dame-school
dammar pine
damn it
damn with faint praise
dammant quod non intelligunt
damned if I know
damned little difference
damned spirits
dammed, the
damning evidence
damning with faint praise
damp box
damp course
damp down
damp off
damp sap
damp the spirits
damp-proof course
damp-stained
damp-worn
dampen the spirits
damper action
damper block
damper crank
damper head
damper pedal
damper rail
damper spoon
damper stop
damper valve
damper winding
damping constant
damping factor
damping machine
damping off
damping-off
damsel fly
damsel-errant
damson cheese
damson pie
damson plum
damson wine
dan buoy
dance attendance
dance attendance on
dance attendance upon
dance band
dance critic
dance drama
dance favor
dance floor
dance fly
dance for joy
dance form
dance hall
dance house
dance leader
dance music
dance notation
dance of death
dance on a hot griddle
dance on air
dance on the razor's edge
dance palace
dance pantomime
dance program
dance rhythm
dance society
dance song
dance step
dance steps
dance the war dance
dance to another tune
dance tune
dance upon nothing
dance-loving
dancing assembly
dancing dervish
dancing disease
dancing floor
dancing girl
dancing hall
dancing lesson
dancing light
dancing mania
dancing master
dancing match
dancing mistress
dancing partner
dancing party
dancing pavilion
dancing room
dancing school
dancing step
dancing winder
dancing-girl
dancing-girls
dandelion digger
dandelion greens
dandelion puller
dandelion wine
dandelion-leaved
dandie dinmont
dandy brush
dandy cart
dandy fever
dandy roll
dandy roller
dandy-brush
dandy-cock
dandy-hen
dandy-horse
dandy-line
dandy-roller
dane-law
danes' blood
danger angle
danger ball
danger bearing
danger flag
danger instinct
danger line
danger money
danger point
danger sign
danger signal
danger to health
danger whistle
danger zone
danger-fearing
danger-fraught
danger-free
danger-loving
danger-teaching
dangerous drug
dangerous ground
dangle before one
dangle before the eyes
dangling modifier
dangling participle
danish pastry
danke schon
danse du ventre
danse macabre
danses du ventre
danseur noble
danseurs nobles
daoine sithe
dap joint
dap-dap
daphne pink
daphne red
dapple-bay
dapple-gray
dapple-grey
dappled-gray
darby and joan
dare not
dare to
dare-base
dare-devil
daring imagination
dariole mould
dark Cornish
dark adaptation
dark age
dark ages
dark and gloomy
dark as a wolf’s mouth
dark as night
dark as pitch
dark beer
dark bread
dark chocolate
dark cloud
dark clouds
dark comedy
dark corner
dark depths
dark glasses
dark horse
dark lantern
dark lightning
dark meat
dark mineral
dark nebula
dark of night
dark of the moon
dark reaction
dark secret
dark segment
dark shade
dark skinned
dark star
dark-adapted
dark-bearded
dark-blue
dark-bosomed
dark-boughed
dark-breasted
dark-browed
dark-closed
dark-colored
dark-complexioned
dark-embrowned
dark-eyed
dark-eyed night
dark-featured
dark-field
dark-field illumination
dark-field microscope
dark-fired
dark-flowing
dark-fringed
dark-glancing
dark-gray
dark-green
dark-grown
dark-haired
dark-hued
dark-hulled
dark-lantern
dark-leaved
dark-line spectrum
dark-minded
dark-orange
dark-prisoned
dark-red
dark-rolling
dark-shining
dark-sighted
dark-skinned
dark-splendid
dark-stemmed
dark-suited
dark-trace tube
dark-veiled
dark-veined
dark-visaged
dark-working
darken over
darken your door
darkened mind
darkling beetle
darkness visible
darkness which may be felt
darkroom timer
darktrace tube
darn ar durn
darning ball
darning cotton
darning egg
darning gourd
darning needle
darning silk
darning stitch
darning work
darning worsted
daroo tree
darrein presentment
darrein resort
dart ahead
dart grass
dart gun
dart snake
dart thrower
dart to and fro
darting pain
dartwaza band
das Ewig-Weibliche
dash ahead
dash at
dash down
dash for
dash into
dash lamp
dash light
dash of the pen
dash off
dash on
dash the cup from your lips
dash to your hopes
dash your brains out
dash your hope
dash-board
dashed hope
dashed hopes
dasher block
data analyzer
data bank
data capture
data processing
data processor
data reduction
data retrieval
data set
data storage
data system
data transmission
data-gathering
data-handling system
data-input system
data-interpreting system
data-reduction system
date at
date bar
date brandy
date coffee
day breeze
day by day
day camp
day clock
day clothes
day coach
day degree
day drift
day fireman
day fishing
day gang
day gate
day glow
day god
day gown
day guest
day hand
day hater
day haul
day hour
day house
day in
day in and day out
day in court
day in day out
day jasmine
day journeying
day labor
day laborer
day labour
day letter
day lily
day loan
day man
day name
day nettle
day neutral
day nurse
day nursery
day of atonement
day of doom
day of festivities
day of reckoning
day of rest
day off
day out
day owl
day rate
day reflection
day release
day return
day room
day rule
day scholar
day school
day servant
day shape
day shift
day sight
day sleeper
day slumber
day tank
day task
day trip
day vision
day waiter
day watchman
day water
day wind
day's work
day's-work
day-and-night
day-appearing
day-bed
day-blindness
day-bright
day-by-day
day-care center
day-clean
day-clear
day-dawn
day-day
day-detesting
day-devouring
day-dispensing
day-distracting
day-dream
day-eyed
day-fever
day-flower
day-fly
day-flying
day-hating
day-hired
day-lasting
day-lily
day-lived
day-loving
day-mare
day-net
day-neutral
day-peep
day-rawe
day-rule
day-shining
day-sight
day-spring
day-star
day-tale
day-time
day-to-day
day-to-day loan
day-to-day money
day-tripper
day-wearied
day-woman
day-writ
daylight blue
daylight factor
daylight glass
daylight lamp
daylight projection
daylight robbery
daylight saving
daylight saving time
daylight vision
daylight-saving time
days beyond recall
days gone by
days of grace
days of old
days of yore
daytime serial
dazzle painting
dazzle system
dazzling light
de Beauvoir
de Broglie
de Broglie equation
de Broglie wave
de Broglie waves
de Gaulle
de Gaullism
de Kooning
de Lesseps
de Moivre
de Moivre's theorem
de Sica
de Valera
de Villiers
de Wint
de bene esse
de bonis non administratis
de bonne volonté
de die in diem
de facto
de fide
de fond en comble
de gaullism
de gustibus non est disputandum
de haut en bas

de jure
de longue haleine
de los Angeles
de luxe
de mal en pis
de mortuis nil nisi bonum
de novo
de plano
de profundis
de proprio motu
de rerum natura

de rien
de rigueur
de stijl
de trop
de-
de- prestige
de-Stalinization
de-Stalinize
de-Stalinized
de-Stalinizing
de-aerate
de-aereate
de-afforest
de-articulate
de-articulation
de-christianize
de-educate
de-electrify
de-electrization
de-electrize
de-emanate
de-emanation
de-emphases
de-emphasis
de-emphasize
de-emphasized
de-emphasizing
de-emulsibility
de-emulsify
de-emulsivity
de-energize
de-escalate
de-escalation
de-ethicization
de-ethicize
de-excite
de-excited
de-exciting
de-ice
de-icer
de-insularize
de-ossify
de-pauperize
de-russianize
de-saxonize
de-semiticize
da-nettle
deacon seat
dead above the ears
dead against
dead ahead
dead and buried
dead and done for
dead and gone
dead as a doornail
dead as a herring
dead as mutton
dead asleep
dead band
dead beat
dead between the ears
dead blackout
dead body
dead calm
dead center
dead centre
dead certainty
dead circuit
dead colour
dead duck
dead end
dead firing
dead flat
dead force
dead from the neck up
dead giveaway
dead hand
dead hand of the past
dead heat
dead in the Lord
dead language
dead leaf
dead letter
dead level
dead lift
dead load
dead lock
dead loss
dead low tide
dead low water
dead mail
dead man
dead man's control
dead man's fingers
dead man's hand
dead man's handle
dead march
dead matter
dead men
dead metal
dead muzzler
dead of night
dead on your feet
dead palsy
dead pan
dead past
dead pay
dead person
dead persons
dead pledge
dead point
dead reckoning
dead right
dead ringer
dead run
dead sea
dead season
dead set
dead set at
dead set on
dead sheave
dead shot
dead slow
dead soldier
dead space
dead spindle
dead spot
dead stand
dead stick
dead stock
dead stop
dead storage
dead straight
dead sure
dead time
dead to
dead to rights
dead to shame
dead to the world
dead wall
dead water
dead weight
dead well
dead woman
dead wood
dead zone
dead-afraid
dead-air
dead-air space
dead-alive
dead-alivism
dead-and-alive
dead-anneal
dead-arm
dead-ball line
dead-blanced
dead-born
dead-bright
dead-burn
dead-center
dead-centre
dead-cold
dead-color
dead-colored
dead-dip
dead-doing
dead-drifting
dead-drunk
dead-drunkenness
dead-end
dead-end street
dead-eye
dead-face
dead-front
dead-frozen
dead-grown
dead-hand
dead-hearted
dead-heat
dead-heater
dead-heavy
dead-kill
dead-leaf
dead-letter
dead-light
dead-line
dead-live
dead-man control
dead-man's float
dead-melt
dead-nettle
dead-point
dead-rise
dead-rise line
dead-roast
dead-seeming
dead-set
dead-sick
dead-smooth
dead-soft
dead-stick
dead-stick landing
dead-stick loop
dead-still
dead-stroke
dead-stroke hammer
dead-struck
dead-sure thing
dead-tired
dead-tongue
dead-weight
dead-weight safety valve
dead-work
deadbeat escapement
deaden the pain
deadly nightshade
deadly pale
deadly pallor
deadly sin
deadly sin of envy
deadly sins
deadly weapons
deadweight capacity
deadweight tonnage
deadwood fence
defa and dumb
defa as a door
defa as a doorknob
defa as a doornail
defa as a post
defa as a stone
defa as an adder
defa ears
defa to
defa to reason
defa-and-dumb
defa-and-dumb alphabet
defa-and-dumb person
defa-dumb
defa-dumbness
defa- eared
defa-minded
defa-mute
defa-muteness

defa-mutism
deal a blow

deal a blow at

deal a check to

deal a crushing defeat

deal a deathblow

deal a deathblow to

deal a knockout blow to

deal a smashing defeat

deal board

deal by

deal carrier

deal destruction

deal hard measure to

deal hardly with

deal harshly with
deal illicitly
deal in
deal in abstractions
deal in commercial paper
deal in futures
deal in generalities
deal in money
deal in the marvelous
deal merchant
deal off
deal off the bottom of the deck
deal out
deal porter
deal runner
deal someone in
deal table
deal with
deal worker
deal yard
deal-board
dealer acceptance
dealer allowance
dealer help
dealing box
dealing death
dealing in commercial paper
dealings of providence
dean of guild
dean of men
dean of the faculty
dean of women
dean's list
dear as the apple of your eye
dear at any price
dear joy
dear me
dear one
dear to your heart
dear-bought
dear-cut
dearest wish
dearly beloved
dearly love
dearly love to
dearth of ideas
death adder
death agonies
death agony
death alder
death angel
death angle
death bell
death benefit
death bill
death blast
death bolt
death bone
death by your own hand
death camas
death camass
death candle
death cap
death cell
death certificate
death chair
death chamber
death chime
death cloth
death cord
death cry
death cup
death damp
death dance
death defiance
death demon
death dew
death dirge
death drink
death drum
death duty
death examiner
death feint
death feud
death fire
death flame
death grant
death grapple
death grip
death groan
death herb
death hour
death house
death hymn
death instinct
death kneal
death light
death list
death mask
death note
death notice
death of the heart
death of the soul
death pang
death peal
death penalty
death penny
death point
death prayer
death rate
death rattle
death ray
death roll
death rope
death row
death ruckle
death seat
death sentence
death shriek
death sleep
death song
death stab
death stroke
death struggle
death sweat
death symbol
death tax
death thirst
death throe
death throes
death tick
death toll
death trance
death vacancy
death warrant
death weight
death wish
death wraith
death’s bright angel
death’s-face
death’s-head
death’s-head moth
death’s-herb
death-bearing
death-bed
death-begirt
death-bell
death-bird
death-black
death-blow
death-boding
death-braving
death-bringing
death-cold
death-come-quickly
death-counterfeiting
death-darting
death-day
death-deaf
death-deafened
death-dealing
death-deep
death-defying
death-devoted
death-dewed
death-divided
death-divining
death-doing
death-doom
death-due
death-fire
death-laden
death-marked
death-pale
death-polluted
death-practiced
death-shadowed
death-sheeted
death-sick
death-stiffening
death-stricken
death-struck
death-subduing
death-swimming
death-threatening
death-throe
death-warrant
death-watch
death-weary
death-winged
death-worm
death-worthy
death-wound
death-wounded
deathbed deed
deathbed repentance
deathlike calm
deathlike silence
deathly hue
deathly pale
deathly pallor
deathwatch beetle
debase yourself
deberating point
deurenture bond
debris glacier
debt book
debt limit
debt of honor
debt of honour
debt of nature
debt service
debt slave
debt slavery
debror and creditor account
debror's prison
debrts recovery court
debrutante bob
decada-
decade ring
decanal side
decanedioic acid
decanoic acid
decapod locomotive
decarbonized iron
decay coefficient
decay of memory
decay series
deceased, the
decedent estate
deceive yourself
deceleration parachute
decem-
decelion bed
decelion table
decelion cadence
deci-
decide against
decide between
decide upon
decided resemblance
decided upon
deciding vote
deciduous plant
deciduous tooth
decimal candle
decimal classification
decimal currency
decimal fraction
decimal place
decimal point
decimal system
decimo-sexto
decision procedure
decision-making
decisive defeat
decisive moment
deck beam
deck block
deck board
deck bolt
deck boy
deck bridge
deck car
deck cargo
deck chair
deck curb
deck department
deck elevator
deck feather
deck floor
deck gang
deck gun
deck hand
deck hook
deck horse
deck iron
deck key
deck kicker
deck light
deck load
deck log
deck molding
deck nail
deck of cigarettes
deck officer
deck out
deck over
deck passage
deck passenger
deck pipe
deck plate
deck plating
deck pump
deck quoits
deck roof
deck seat
deck sheet
deck steward
deck stool
deck stopper
deck stringer
deck tackle
deck tennis
deck transom
deck turret
deck up
deck watch
deck-piercing
deck-piercing shell
decked out
decking chain
deckle edge
deckle strap
deckle-edged
declaim against
declaration of faith
declaration of policy
declaration of war
declaratory judgment
declare a dividend
declare a moratorium
declare a recess
declare lawful
declare null and void
declare off
declare roundly
declare to God
declare war
declare yourself
declare yourself a party
declare yourself against
declaring yourself in
declination axis
declination circle
declination compass
declination parallel
decline and fall
decline of day
decline of life
decline politely
decline to accept
decline with thanks
declined with thanks
declining market
declining years
decoction process
decoding servomechanism
decomposition potential
decompression chamber
decompression sickness
decorated hero
decoration of honor
decorative composition
decorative lighting
decorative painting
decorative sculpture
decorative style
decorative surgery
decorator color
decoy duck
decoy-duck
decrease in size
decrease in temperature
decree absolute
decree dative
decree law
decree nisi
decree of nullity
decree-law
decrescent moon
decret loi
decubitus ulcer
decuman gate
dedendum circle
dedicate onself to
dedicate to
dedicate yourself to
dedication to duty
deductible clause
deductive power
deductive reasoning
deed of arrangement
deed of indemnity
deed of release
deed of trust
deed over
deed poll
deed without a name
deem trustworthy
deep as China
deep as a well
deep as hell
deep as the ocean
deep as the sea
deep asleep
deep bass
deep black
deep fat
deep floor
deep freeze
deep freezing
deep fryer
deep future
deep in debt
deep into
deep kiss
deep knowledge
deep mourning
deep night
deep sea
deep secret
deep sense
deep sensibility
deep six
deep sleep
deep space
deep structure
deep study
deep therapy
deep thought
deep water
deep, the
deep-affected
deep-affrighted
deep-asleep
deep-bellied
deep-biting
deep-blue
deep-bodied
deep-skirted
deep-sore
deep-sounding
deep-space ship
deep-stapled
deep-sunk
deep-sunken
deep-sweet
deep-sworn
deep-tangled
deep-thinking
deep-thoughted
deep-thrilling
deep-throated
deep-toned
deep-transported
deep-trenching
deep-troubled
deep-udder
ndeep-udderred
deep-vaulted
deep-versed
deep-voiced
deep-waisted
deep-water
deep-worn
deep-wounded
deepest feelings
deepest mind
deepest recesses
deeplv involved
deply involved in debt
depwater sailor
deer brush
deer cabbage
deer call
deer cart
deer fence
deer fern
deer fly
deer fly fever
deer foot
deer forest
deer grass
deer hide
deer keeper
deer laurel
deer lick
deer mouse
deer park
deer tick
deer tiger
deer vine
deer's-tongue
deer-coloured
deer-eyed
deer-fly fever
deer-hair
deer-hound
deer-lick
deer-mouse
deer-neck
deer-staiker
deer-stealer
deerhorn cactus
deerwort boneset
defamation of character
defeat expectation
defeat hope
defeat of time
defeat time
defeat utterly
defeated candidate
defect of sight
defect of vision
defective eye
defective eyes
defective number
defective verb
defective vision
defective year
defence mechanism
defend tooth and nail
defender of the bond
defender of the marriage bond
defending line
defense bond
defense counsel
defense in depth
defense mechanism
defense of a thesis
defense plant
defense reaction
defense test
defensive lineman
defensive stock
defensive strategy
defensive warfare
defer to
defer to your duty
deferential regard
deferred annuity
deferred assets
deferred bond
deferred income
deferred payments
deferred sentence
deferred share
deferred stock
defervescing plague
defiance of authority
defiance of time
deficiency account
deficiency anemia
deficiency bill
deficiency disease
deficiency judgment
deficiency statement
deficient number
deficit financing
deficit spending
definite article
definite integral
definite odor
definite-proportions law
definite-time
definitely right
definitive bond
definitive host
definitive plumage
definitive work
deflagrating spoon
deflationary gap
deflationary spiral
deflecting bar
deflecting force
deflecting torque
deflection angle
deflection generator
deflection method
deflection offset
deflection scale
deflection yoke
deflection-modulated display
deformation curve
deformation ellipsoid
defomed bar
defray expenses
deft-fingered
defy authority
defy danger
defy time
degenerate state
degenerate states
degeneration disease
degenerative arthritis
degenerative change
degenerative disease
degenerative joint disease
degradation of energy
degrade yourself
degree day
degree of freedom
degree of frost
degree of variance
degree-cut
degree-day
degree-granting institution
degrees of comparison
dehydrated alcohol
dehydrated foods
dei gratia
dei plenus
deion circuit breaker
diesel engine
deities of fertility
deities of justice
deities of the household
deities of the nether world
deity of nether world
deja vu
dejuner a la fourchette
deka-
del Sarto
del credere
del credere agent
delay line
delay screen
delay-action
delayed action
delayed alpha particle
delayed drop
delayed neutron
delayed reaction
delayed speech
delayed-action
delayed-action bomb
delayed-action fuse
delaying action
delep palm
delegated authority
delenda est Carthago
delft blue
delft ware
deliberate aggravation
deliberate over
deliberate stages
deliberate upon
deliberately provoked
deliberative assembly
deliberative body
delicate distinction
delicate health
delicate issue
delicate-handed
delicately weak
delight in
delight the palate
delimited field
delineating in the imagination
delirium alcoholicum
delirium ebriositatis
delirium mussitans
delirium tremens
deliver a lecture
deliver an address
deliver an ultimatum
deliver judgment
deliver over
deliver up your arms
deliver your charge to the jury
deliver yourself
deliver yourself from
delivered price
delivery boy
delivery order
delivery price
delivery room
delivery ticket
delivery truck
delivery van
della Robbia
della crusca
delph blue
delta connection
delta current
delta function
delta iron
delta plain
delta plateau
delta potential
delta ray
delta rhythm
delta winding
delta wing
delta-planform jet
delta-shaped
delude yourself
deluded belief
deluge set
delusion of grandeur
delusion of persecution
delusion of reference
delve for
delve into
demand attention
demand bid
demand bill
demand curve
demand deposit
demand draft
demand for
demand limiter
demand loan
demand meter
demand note
demand payment
demand rate
demand-load limiter
demand-pull inflation
demean yourself
dementia a potu
dementia paralytica
dementia praecox
demerit mark
demesne farm
demi-
demi-batn
demi-cannon
demi-culverin
demi-hunter
demi-incognito
demi-island
demi-islander
demi-jour
demi-lance
demi-landau
demi-mondaine
demi-monde
demi-ostade
demi-paradise
demi-pension
demi-pique
demi-puppet
demi-rep
demi-sang
demi-season
demi-sec
demi-sel
demi-semi
demi-sheath
demi-vill
demilitarized zone
demipirouette volt
demo-
democrat wagon
democratic centralism
democratic-republican
demoiselle crane
demolition bomb
demolition derby
demolition rocket
demon star
demon worship
demon worshiper
demonic energy
demono-
demonstrable existence
demonstrable fact
demonstrate against
demonstrate respect for
demonstrate your ability
demotic character
demy octavo
demy quarto
den chief
den dad
dental plate
dental pulp
dental surgeon
dental surgery
dental technician
dentary-splenial
dentate-ciliate
dentate-crenate
dentate-serrate
dentate-sinuate
dentato-
denti-
dentil band
dentist's chair
dento-
denuded of
denumerative geometry
deny yourself
deny yourself not at all
deny yourself nothing
deny yourself to
deo volente
dedorant soap
deontological ethics
deoxy-
deoxiribonucleic acid
depart from
depart from the prepared text
depart this life
departed spirit
departed this life
departed, the
department hospital
department of investigation
department of knowledge
department store
departmental store
depend on
depend upon
dependence on
dependent clause
dependent on
dependent variable
depending on
depending on circumstances
dephlogisticated air
dephosphorizing process
depicting in the imagination
depletion allowance
deponent verb
deport yourself
deported population
deposit account
deposit banking
deposit copy
deposit currency
deposit margin
deposit money
deposit of faith
deposit premium company
deposit slip
depot ship
deprieved of
depth bomb
depth charge
depth gauge
depth indicator
depth indicators
depth interview
depth measure
depth measurement
depth of field
depth of focus
depth of hold
depth of misery
depth of thought
depth of winter
depth perception
depth psychology
depth sounder
depth sounding
depth table
depth-charge
depth-charged
depth-charging
depthing tool
depths of space
depths of your being
deputy collector
deputy commissioner
deputy sheriff
der Tag
der-doing
derailing switch
derb fine
derestic thinking
derivable from
derivation from
derivative action
derivative title
derive from
derive pleasure from
derived authority
derived curve
derived four-channel system
derived function
derived set
derived unit
deriving from
derm-
dermat-
dermato-
dermato-autoplasty
dermo-
dermoid cyst
dernier cn
dernier cri
dernier ressort
derogate from
derrick block
derrick boat
derrick boatman
derrick car
derrick chain
derrick crab
derrick crane
derrick elevator
derrick engine
derrick floor
derrick floorman
derrick forge
derrick fork
derrick hoist
derrick hoist
derrick lamp
derrick maker
derrick making
derrick mast
derrick master
derrick sheaves
derrick sill
derrick skid
derrick skip
derrick spring
derrick stacker
derrick stool
derrick stove
derrick timber
derrick tower
derrick truck
derrick wheel
derring do
derring-do
derry-down
des-
descant clef
descant viol
descend from
descend on
descend to particulars
descend upon
descending node
descension theory
descent cast
descent on
descent upon
describe a circle
descriptive clause
descriptive geometry
descriptive grammar
descriptive linguistics
desert boots
desert cat
desert cooler
desert fathers
desert fox
desert iguana
desert island
desert kumquat
desert lark
desert lemon
desert lily
desert lynx
desert oak
desert of time
desert palm
desert pea
desert plant
desert poisonbush
desert polish
desert rat
desert rod
desert saints
desert she-oak
desert ship
desert soil
desert trumpet flower
desert trumpeter
desert under fire
desert varnish
desert weed
desert willow
desert your principles
desert-bred
desert-locked
desert-wearied
desertion of principle
desertion under fire
deserts of vast eternity
deserve punishment
design bedding
design body
design load
designate a proxy
designate an agent
desire body
desire concentration
desire for knowledge
desire for yourself
desire guidance
desires of the flesh
desiring water
desirous of
desirous to
desist from
desist quit it
desk calendar
desk clerk
desk dictionary
desk jobber
desk lamp
desk light
desk pad
desk room
desk sweater
desk telephone
desk work
desm-
desmo-
desoxy-
desoxyrribonucleic acid
despair of
despaired of
desperate criminal
despite that
despoiled of
despotic monarch
despotic monarchy
dessert fork
dessert knife
dessert plate
dessert spoon
dessert wine
destiny's darling
destitute of
destitute of life
destroyer escort
destroyer leader
destroyer tender
destroyer wheel
destroying angel
destruct line
destruction of life
destructive criticism
destructive distillation
destructive interference
detach for service
detached escapement
detached retina
detached service
detail drawing
detail man
detectable odor
detective novel
detective story
detective work
detective yarn
detent escapement
detention camp
detention centre
detention home
detention hospital
determinant rank
determinate cleavage
determinate growth
determinative clause
determine once for all
determine upon
determined upon
deterrent capacity
deterrent example
detonating fuse
detonating powder
detonating tube
detonation indicator
detract attention
detract from
detritus tank
deuce game
deuce point
deuce set
deuce shot
deuce-ace
deuces wild
deus ex machina
deut-
deuter-
deuterium oxide
deutero-
deutero-malayan
deuterocanonical books
deuto-
deutsche mark
devastating attack
develop into
develop late
developed thought
developing dye
developing tank
developing-out paper
development section
development theory
developmental change
developmental psychology
deviate from
deviate from the path of virtue
deviate from the truth
deviation card
deviation factor
deviation warranty
devil bolt
devil carriage
devil chaser
devil dance
devil dancer
devil dancing
devil dog
devil dogs
devil grass
devil incarnate
devil lore
devil murder
devil of a
devil ray
devil take
devil to pay, the
devil worship
devil worshiper
devil worshiping
devil's advocate
devil's bit
devil's bones
devil's books
devil's claw
devil's coach-horse
devil's darning needle
devil's dung
devil's dust
devil's food cake
devil's grip
devil's guts
devil's ivy
devil's mark
devil's milk
devil's own luck
devil's paintbrush
devil's tattoo
devil's-bit
devil's-bones
devil's-ivy
devil's-pincushion
devil's-tongue
devil's-walking-stick
devil-born
devil-devil
devil-diver
devil-dodger
devil-fish
devil-giant
devil-god
devil-haired
devil-in-the-bush
devil-inspired
devil-like
devil-may-care
devil-may-careness
devil-porter
devil-ridden
devil-tender
deviled eggs
devils' chorus
devils' chorange
devils-on-horseback
devoid of
devoid of truth
devolve on
devolve upon
devote the mind to
devote the thoughts to
devote to
devote yourself
devote yourself to
devoted friend
devoted friendship
devoted to
devoted to studies
devotee of Bacchus
devotion to duty
devoured by
devoured by desire
devouring element
dew bit
dew bow
dew cap
dew cell
dew grass
dew plant
dew point
dew pond
dew snail
dew worm
dew-beat
dew-beater
dew-bedabbled
dew-bediamonded
dew-bent
dew-berry
dew-bespangled
dew-bespattered
dew-besprinkled
dew-boine
dew-bolne
dew-bright
dew-clad
dew-claw
dew-cold
dew-dabbled
dew-drenched
dew-dripped
dew-dropping
dew-drunk
dew-fall
dew-fed
dew-gemmed
dew-laden
dew-lipped
dew-lit
dew-pearled
dew-point
dew-point deficit
dew-point depression
dew-point hygrometer
dew-point spread
dew-point temperature
dew-pond
dew-ret
dew-sprent
dew-sprinkled
dew-worm
dewar flask
dewey decimal classification
dewy morn
dewy-bright
dewy-dark
dewy-eyed
dewy-feathered
dewy-feathered sleep
dewy-fresh
dewy-pinioned
dextr-
dextrinogenic enzyme
dextro camphor
dextro propoxyphene
dextro-
dextro-glucose
dextroamphetamine sulfate
dextronic acid
dh-
dhobi itch
dhobie itch
dhobie tongs
dhu'l-hijja
dhu'l qa'dah
di grado in grado
di majores
di minores
di-
di-adapan
di-allyl
di-decahedral
di-do decahedral
di-hexa hedron
di-iodide
di-tri-
dia-
diabase-porphyrite
diabetes insipidus
diabetes mellitus
diabetes sugar
diabetes weed
diabetic diet
diabol-
diacetyl morphine
diachronic linguistics
diacritical mark
diacritical marks
diacritical sign
diadem lemur
diadem spider
diagnostic picture
diagonal bond
diagonal cloth
diagonal engine
diagonal line
diagonal matrix
diagonal-built
diagonal-cut
diagram factor
dial bird
dial enameler
dial feed
dial foot
dial gauge
dial press
dial recorder
dial telegraph
dial telephone
dial tone
dial train
dial work
dial-plate
dialect atlas
dialect dictionary
dialect geographer
dialect geography
dialectical materialism
dialectical materialist
dialectical theology
dialing globe
dialling tone
diallyl sulfide
diallylbarbituric acid
dialogical theology
diali-
dialysis machine
dialytic method
diameter tape
diametrically opposite
diamido-
diamine dye
diamine oxidase
diamond anniversary
diamond bed
diamond beetle
diamond bird
diamond black
diamond borer
diamond boron
diamond bort
diamond breaker
diamond broker
diamond cement
diamond chisel
diamond couching
diamond crossing
diamond cut diamond
diamond dash
diamond die
diamond digger
diamond digging
diamond dresser
diamond drill
diamond dust
diamond edition
diamond factory
diamond field
diamond fig
diamond file
diamond flounder
diamond flower
diamond gauge
diamond gravel
diamond green
diamond groove
diamond hammer
diamond hitch
diamond in the rough
diamond jubilee
diamond knot
diamond linen
diamond merchant
diamond mill
diamond mine
diamond mortar
diamond panel
diamond paste
diamond pencil
diamond photograph
diamond plant
diamond plate
diamond plow
diamond point
diamond polisher
diamond powder
diamond rattlesnake
diamond ring
diamond ring effect
diamond saw
diamond setter
diamond skin disease
diamond snake
diamond sparrow
diamond splitter
diamond stitching
diamond tool
diamond tooth
diamond trade
diamond truer
diamond twist
diamond wedding
diamond weevil
diamond wheel
diamond-back
diamond-backed
diamond-beetle
diamond-boring
diamond-bright
diamond-cut
diamond-cutter
diamond-headed
diamond-leaf laurel
diamond-matched
diamond-paned
diamond-point
diamond-point spoon
diamond-pointed
diamond-producing
diamond-shaped
diamond-skin disease
diamond-snake
diamond-tiled
diamond-tipped
diamondback moth
diamondback rattlesnake
diamondback terrapin
diamondback watersnake
diamyl sulfide
diapason diapente
diapason ditone
diapason normal
diapason normal pitch
diapason pitch
diaper pattern
diaper rash
diaper service
diaphragm current
diaphragm gauge
diaphragm motor valve
diaphragm process
diaphragm pump
diaphragm shutter
diaphragm valve
diarrhea of the mouth
diaspore clay
diastolic hypertension
diathermic treatment
diathermy machine
diatomaceous earth
diatonic interval
diatonic scale
diatonic semitone
diaz-oxide
diazo dye
diazo group
diazo process
diazo radical
diazo reaction
diazo-
diazoamino group
diazoamino radical
diazonium compound
diazonium salt
dib-hole
dibasic sodium phosphate
dibbuks dibbukim
dibutyl oxalate
dibutylamino-propanol
dicarbo-
dicarboxylic acid
dice coal
dice cup
dice roll
dice throws
dice-box
dice-top
dich-
dichloramine-t
dichlorodiethyl formal
dichlorodiethyl sulfide
dichloroethyl formal
dichloroethyl sulphide
dichlorophenoxyacetic acid
dicho-
dichro-
dichromatic vision
dichromatic vision
dichromatic vision
dichromic acid
dicing board
dick test
dickey box
dicky bow
dictate peace
dictates of Mrs
dictates of society
dictating machine
dictatorship of the proletariat
dictionary catalog
dictionary catalogue
dictionary editor
dictionary meaning
dictionary of quotations
dictionary-proof
dicty-
dicyclopentadienyl metal
did you ever
didactic poetry
diddle away
diddle-
diddle-daddle
diddle-dee
die a natural death
die a violent death
die at your post
die away
die away from the memory
die by your own hand
die cast
die caster
die casting
die chaser
die chuck
die cutter
die cutting
die down
die engraver
die fighting
die filing
die fitter
die fitting
die for your country
die forger
die forging
die game
die grinder
die hammer
die hard
die hardener
die head
die hob
die holder
die in harness
die in the Lord
die in the attempt
die in the last ditch
die in your boots
die is cast, the
die kicker
die laughing
die like a man
die miller
die mold
die off
die on the vine
die out
die planer
die plate
die polisher
die polishing
die press
die presser
die proof
die reamer
die screw plate
die set
die shaper
die sharpening
die shoe
die spotter
die spotting
die spring
die stamper
die standing up
die steel
die stock
die stripper
die stripping
die tap
die temper
die trying
die turner
die wedge
die with delight
die with pleasure
die with your boots on
die-away
die-back
die-cast
die-casting
die-cut
die-hard
die-hardism
die-square
dielectric constant
dielectric current
dielectric displacement current
dielectric heat
dielectric heater
dielectric heating
dielectric loss
dielectric preheater
dielectric strength
dies funestis
dies irae
dies non
dies non juridicus
diesel cycle
diesel engine
diesel fuel
diesel oil
diesel propulsion
diesel-driven
diesel-electric
diesel-electric propulsion
diesel-engined
diesel-hydraulic
diesel-powered
diesel-propelled
diesinking machine
diet book
diet kitchen
dietary deficiency
dietary law
dietetic treatment
diethene-
diethyl ether
diethyl malonate
diethyl oxide
diethyl sulfide
diethylbarbituric acid
diethylene dioxide
dif-
differ from
differ in opinion
difference chart
difference engine
difference equation
difference gauge
difference limen
difference of form
difference of opinion
difference product
difference quotient
difference ring
difference table
difference threshold
difference tone
different breed of cat
different story
different thing
differential analyzer
differential anesthetic
differential calculus
differential coefficient
differential diagnosis
differential equation
differential gap
differential gear
differential gearing
differential geometry
differential ionization chamber
differential leveling
differential operator
differential pressure gauge
differential psychology
differential purchase
differential quotient
differential rate
differential recorder
digger wasp
digging weight
digital clock
digital computer
digital data reducing system
digital differential analyzer
digital examination
digital feedback control
digital general purpose computer
digital graph plotter
digital process
digital watch
digitato-palmate
digitato-pinnate
digiti-
digito-
diglycolic acid
diglycollic acid
dihedral angle
dihydric alcohol
diisobutyl phthalate
dik-dik
dika bread
dika butter
dika nut
dike hopper
dike out
dike rock
dike up
dike-grave
dike-louper
dike-reeve
dilate on
dilate upon
dill oil
dill pickle
dill water
dilly bag
dilly-dally
dilute acid
dim eyes
dim light
dim out
dim past
dim recollection
dim view
dim-brooding
dim-browed
dim-colored
dim-discovered
dim-eyed
dim-felt
dim-gleaming
dim-gray
dim-lettered
dim-lighted
dim-lit
dim-litten
dim-out
dim-remembered
dim-seen
dim-sensed
dim-sheeted
dim-sighted
dim-sightedness
dim-visioned
dim-witted
dim-wittedness
dim-yellow
dime a dozen
dime museum
dime novel
dime store
dime-a-dozen
dime-store
dimension control
dimension lumber
dimension stone
dimethyl arsinic acid
dimethyl sulfate
dimethyl sulfoxide
diminish yourself
diminished dovetail
diminished responsibility
diminished seventh chord
diminished stile
diminishing returns
diminishing rule
diminishing stile
dimissorial letter
dimissory letter
din in the ear
dine not wisely but too well
dine out
dine with Duke Humphrey
diner-out
dinette set
dinette table
ding an sich
ding off
ding-a-ling
ding-dong
dingdong theory
dinge an sich
dinghy anchor
dingle-dangle
dining car
dining chair
dining compartment
dining hall
dining room
dining saloon
dining table
dining utensils
dinitro-
dinitrogen tetroxide
dinkel wheat
dinking die
dinkum oil
dinky-di
dinner audience
dinner bell
dinner call
dinner card
dinner chimes
dinner clothes
dinner club
dinner coat
dinner dance
dinner dress
dinner fork
dinner gong
dinner gown
dinner hour
dinner jacket
dinner knife
dinner napkin
dinner pail
dinner party
dinner plate
dinner ring
dinner room
dinner service
dinner set
dinner table
dinner wagon
dinner-dance
dinner-getting
diocesan conference
diocesan court
diophantine equation
diorite-porphyrite
dip a flag
dip circle
dip down
dip fault
dip into
dip needle
dip out
dip pipe
dip rider
dip rope
dip sector
dip shift
dip slip
dip snuff
dip switch
dip the beak
dip the colors
dip the ensign
dip the pen in gall
dip trap
dip your hands into
dip-dye
dip-grained
dip-needling
diphen-
diphenyl black
diphenyl ether
diphenyl ketone
diphenylene-methane
diphenylhydantoin sodium
diphosphoglycercic acid
diphtheria bacillus
diphtheria toxoid
diphy-
diphyo-
dipl-
diplo-
diploid number
diploma mill
diploma piece
diplomatic agent
diplomatic body
diplomatic code
diplomatic corps
diplomatic courier
diplomatic immunity
diplomatic mission
diplomatic pouch
diplomatic service
diplomatic staff
diplomatic text
dipodic rhythm
dipole aerial
dipole antenna
dipole moment
dipper clam
dipper dredge
dipper gourd
dipper interrupter
dipper-in
dipping acid
dipping basket
dipping bath
dipping battery
dipping chair
dipping compass
dipping elevator
dipping enamel
dipping frame
dipping furnace
dipping hook
dipping house
dipping ladle
dipping lug
dipping lugsail
dipping needle
dipping oil
dipping paint
dipping pan
dipping paper
dipping process
dipping rack
dipping rod
dipping room
dipping table
dipping tank
dipping the colors
dipping the ensign
dipping tub
dipping tube
dipping works
dipping-needle
dipsey lead
dipsey line
dipsy-doodle
dire necessity
dire wolf
direct access
direct action
direct actionist
direct apprehension
direct attention to
direct black
direct blue
direct broadcast
direct brown
direct communication
direct costs
direct cotton dye
direct current
direct current motor
direct democracy
direct discourse
direct distance dialing
direct dye
direct evidence
direct examination
direct fire
direct grant school
direct infection
direct initiative
direct intuition
direct labor
direct lighting
direct line
direct mail
direct method
direct nomination
direct object
direct order
direct positive
direct primary
direct product
direct proportion
direct question
direct ratio
direct relationship
direct signal
direct speech
direct sum
direct tax
direct the eyes
direct the mind upon
direct tide
direct to
direct to the attention
direct transfusion
direct variation
direct yellow
direct your attention to
direct your course
direct your course for
direct your course to
direct yourself
direct-acting
direct-acting engine
direct-acting press
direct-actionist
direct-connected
direct-coupled
direct-current
direct-current circuit
direct-current converter
direct-current servo
direct-driven
direct-examine
direct-examined
direct-examining
direct-geared
direct-grant school
direct-indirect radiator
direct-mail
direct-mail advertising
direct-mail selling
direct-reading computer
direct-reading spectrometer
direct-reading spectroscope
direct-viewing tube
direct-vision prism
direct-vision spectroscope
direct-writing company
directed verdict
directing circle
directing piece
directing plane
directing point
direction angle
direction constant
direction cosine
direction dial
direction finder
direction finding
direction indicator
direction line
direction number
direction post
direction ratio
direction switch
direction tensor
direction test
direction theodolite
direction transmission
direction-finder station
directional antenna
directional derivative
directional gyro
directional signal
directional stability
directive therapy
director circle
director curve
director general
director plane
director regulus
director sphere
director's chair
director-general
directors general
directory arrangement
directory canvasser
dirigible balloon
dirigible torpedo
dirigo-motor
diriment impediment
dirk knife
dirt band
dirt bed
dirt cheap
dirt dauber
dirt eating
dirt farm
dirt farmer
dirt farming
dirt groove
dirt poor
dirt road
dirt wagon
dirt-besmeared
dirt-born
dirt-cheap
dirt-fast
dirt-flinging
dirt-free
dirt-grimed
dirt-incrusted
dirt-line
dirt-rotten
dirt-smirched
dirt-soaked
dirty allan
dirty bomb
dirty crack
dirty deal
dirty dig
dirty hands
dirty joke
dirty language
dirty liar
dirty lie
dirty look
dirty movie
dirty name
dirty old man
dirty politician
dirty politics
dirty pool
dirty sea
dirty shame
dirty sky
dirty story
dirty talk
dirty trick
dirty up
dirty water
dirty weather
dirty wind
dirty word
dirty work
dirty-colored
dirty-faced
dirty-handed
dirty-minded
dirty-shirted
dirty-souled
dis aliter visum
dis-
dis-byronize
dis-element
dis-turk
disability clause
disability insurance
disablement benefit
disaccord with
disaccustom yourself
disadvantaged, the
disagree with
disappearing act
disappoint your expectations
disapprove of
disapproved place
disaster area
disastrous defeat
disazo dye
disburden you of
disburden your conscience
disburden your heart
disburden your mind
disc brake
disc flower
disc harrow
disc jockey
disc wheel
disc-
discarnate
discernment of excellence
discharge lamp
discharge potential
discharge printing
discharge the duties of
discharge the functions of
discharge the office of
discharge tube
discharge valve
discharge your duty
discharge your function
discharger cup
discharging arch
discharging cargo
discharging freight
discharging pallet
disciples of Christ
disciplinary action
disciplinary measures
discipline yourself
disco-
disconnecting switch
discontinuance wage
discontinuity layer
discord with
discount bond
discount broker
discount company
discount house
discount market
discount notes
discount rate
discount store
discount ticket
discount yourself
discourse about
discourse of reason
discourse upon
discourse with
discover itself
discover serendipitously
discover yourself
discovered check
discovery procedure
discrete atom
discrete four-channel system
discretionary account
discretionary income
discriminant function
discriminate against
discriminating relay
discriminating taste
discrimination learning
discrimination time
discursive reason
discursive reasoning
discus thrower
discuss with
discussion group
disdain grammar
disease germ
disease symptom
disease-causing
disease-causing agent
disease-producing
disease-producing microorganism
disease-resisting
disease-spreading
diseased mind
diseases of
disembodied spirit
disen-
disengagement governor
disgrace yourself
disguise yourself
disguised as a virtue
disgustingly rich
dish bearer
dish cleaner
dish cover
dish designer
dish drainer
dish feed
dish fit for a king
dish gravy
dish it out
dish maker
dish mop
dish mustard
dish night
dish out
dish plate
dish rack
dish reflector
dish the dirt
dish top
dish towel
dish truck
dish up
dish wagon
dish warmer
dish-crowned
dish-faced
dish-headed
dish-shaped
dischocloth gourd
dished keel
dishonest person
dishonorable discharge
dishonored bill

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dishpan hands
disinclination to believe
disinclination to communicate
disincline from
disinclined to believe
disinclined to communicate
disinfecting candle
disintegration series
disjecta membra
disjoin yourself
disjunctive conjunction
disk armature
disk barrow
disk bit
disk brake
disk brakes
disk clutch
disk crank
disk cultivator
disk drill
disk dynamo
disk engine
disk floret
disk flower
disk furrower
disk go-devil
disk harrow
disk hiller
disk jockey
disk memory
disk meter
disk pack
disk photometer
disk pile
disk plow
disk ridge buster
disk sander
disk signal
disk stove
disk system
disk telegraph
disk valve
disk weeder
disk wheel
disk winding
disk-bearing
disk-seal tube
disk-shaped
dismiss all doubt
dismiss from the mind
dismiss from the thoughts
dismiss from your thoughts
dismiss with a laugh
dismissal wage
dismissed out of hand
disobey the law
disodium phosphate
disordered mind
disordered personality
disordered reason
disorderly conduct
disorderly house
disorderly person
disparaging remark
dispatch boat
dispatch box
dispatch case
dispatch money
dispatch note
dispatch rider
dispatch tube
dispatch writer
dispatch writing
dispatch-bearer
dispatch-bearing
dispatch-rider
dispel your illusions
dispensations of providence
dispense from
dispense with
dispensed with
dispersal prison
disperse system
dispersion hardening
dispersion medium
dispersive power
displaced person
displaced population
displacement activity
displacement current
displacement hull
displacement pump
displacement tonnage
display ad
display advertising
dissolving agent
dissolving view
dissonant chord
dissonant sounds
distaff kin
distaff side
distaff thistle
distal convoluted tubule
distance across
distance between
distance circle
distance crossways
distance crosswise
distance flag
distance language
distance made good
distance medley
distance of time
distance post
distance receptor
distance ring
distance scale
distance through
distant early warning
distant early warning line
distant future
distant past
distant perspective
distant prospect
distant relation
distantly and broadly
distantly related
distended belly
distilled essence
distilled water
distilling flask
distilling tube
distinction without a difference
distinctive feature
distinguish between
distinguished flying cross
disto-occlusion
distorted conception
distorted image
distorting mirror
distract attention from
distract the attention
distress call
diversity factor
diversity of colors
divert attention
divert the mind
divert the thoughts
divest of freedom
divest of office
divi-divi
divide by four
divide et impera
divide in thirds
divide in three
divide into four
divide into shares
divide on
divide up
divide with
divided attention
divided highway
divided spectacles
dividend off
dividend on
dividend warrant
dividing engine
dividing head
dividing line
dividing plate
dividing ridge
dividing sinker
dividing wall
divine afflatus
divine attribute
divine breath
divine discontent
divine function
divine healer
divine healing
divine inspiration
divine liturgy
divine office
divine revelation
divine right
divine right of kings
divine service
divine spark
divine tobacco
divine-human
diving beetle
diving bell
diving bird
diving bladder
diving board
diving boat
diving chamber
diving dress
diving duck
diving engine
diving equipment
diving float
diving goggles
diving helmet
diving hood
diving machine
diving mask
diving platform
diving raft
diving rudder
diving suit
diving togs
divinging rod
divinging stick
divinity calf
divinity circuit
divinity circuit binding
divinity fudge
divinity school
divinity student
divinyl ether
division algebra
division algorithm
division center
division engineer
division in the camp
division line
division lobby
division mark
division of labor
division ring
division sign
division superintendent
divorce court
divorce mill
divorced man
divorced person
divorced woman
divvy up
divvy up with
divvying up
dixieland band
dizzy heights
dizzy round
dj-
djati tree
do a bit
do a bunk
do a comparative study
do a deal
do a disservice
do a fade-out
do a favor
do a flip-flop
do a good deed
do a good turn
do a grave injustice
do a great wrong
do a gross injustice
do a hand's turn
do a hitch
do a kind deed
do a kindness
do a land-office business
do a lick of work
do a mischief
do a number on
do a repeat
do a right-about-face
do a service
do a slow burn
do a stint
do a strip-tease
do a tour
do a tour of duty
do a turn to the right-about
do a vanishing act
do a world of good
do active duty
do again
do all in your power
do all right by yourself
do all the talking
do all you can
do amiss
do an about-face
do an about-turn
do it
do it according to Hoyle
do it by the book
do it or break a leg
do it or bust a gut
do it up brown
do justice
do justice to
do like
do no evil
do no harm
do not give it a second thought
do not give it another thought
do nothing
do nothing in excess
do obeisance
do of your own accord
do of your own free choice
do of your own free will
do of your own volition
do offhand
do on an average
do on your own
do on your own hook
do on your own initiative
do on your own say-so
do or die
do out
do out of
do over
do over again
do penance
do proud
do right
do right by
do service
do service for
do service to
do some heavy thinking
do someone credit
do someone dirt
do something
do something about
do suit and service
do superfluously
do svidanye
do tell
do the best you can
do the best you know how
do the chores
do the crazy act
do the crazy bit
do the crazy shtick
do the deadman's float
do the dirty work of
do the disappearing act
do the fair thing
do the goose step
do the handsome thing
do the heart good
do the honors
do the job
do the lock step
do the needful
do the proper thing
do the right thing
do the right thing by
do the spadework
do the trick
do the unexpected
do the will of
do time
do to
do to a T
do to a frazzle
do to a turn
do to death
do to perfection
do too many things at once
do up
do up brown
do violence to
do voluntarily
do well
do what is expected
do what is right
do what lies in your power
do what you are told
do what you can
do what you choose
do what you have to do
do what you like
do what you set out to do
do what you wish
do with
do with both eyes shut
do without
do wonders
do wrong
do wrong by
do wrong to
do you a wrong
do you an injustice
do you proud
do your best
do your bidding
do your bit
do your damndest
do your damnest
do your duty
do your heart good
do your level best
do your number
do your office
do your part
do your share
do your stuff
do your thing
do your utmost
do your worst to
do yourself proud
do-all
do-dad
do-funny
do-good
do-gooder
do-goodism
do-it-yourself
do-it-yourselfer
do-little
do-naught
do-nothing
do-nothing adj
do-nothing policy
do-nothingism
do-nothingness
do-nought
do-or-die
do-over
do-re-mi
do-si-do
do-up
dob in
dobber-in
dobbin cart
dobby loom
dobby weave
dobell's solution
doberman pinscher
dobson fly
do-ch-an-dorrach
do-ch-an-dorris
do-ch-an-dorroch
dock boss
dock bur
dock charge
dock cooper
dock crane
dock cress
dock crew
dock derrick
dock dues
dock foreman
dock gate
dock hand
dock hoist
dock inspector
dock laborer
dock light
dock nettle
dock port
dock porter
dock receipt
dock rent
dock screw
dock shunter
dock sill
dock sorrel
dock space
dock spike
dock superintendent
dock trade
dock warehouse
dock warrant
dock-leaved
dock-tailed
dock-walloper
dock-walloping
docking bridge
docking cradle
docking keel
docking maneuver
docking pilot
docking plan
docking telegraph
doctor accounts
doctor blade
doctor file
doctor fish
doctor up
doctor's degree
doctor's gown
doctor's oral
doctoral candidate
doctrinal statement
doctrinal theology
doctrine of descent
doctrine of inference
doctrine of terms
doctrine of the judgment
document bill
documentary drama
documentary evidence
documentary film
dodder family
dodder grass
doddy mitten
dodeca-
dodecanoic acid
dodecuple scale
dodecyl aldehyde
dodge ball
dodge chain
dodging tool
dodo split
doebling oil
doeskin brown
doff your cap to
doffing comb
doffing cylinder
doffing knife
dog Latin
dog ape
dog bee
dog belt
dog bent
dog biscuit
dog blanket
dog box
dog bramble
dog life
dog lily
dog louse
dog lover
dog meat
dog mercury
dog mint
dog muzzle
dog nail
dog nap
dog nettle
dog owl
dog owner
dog paddle
dog parsley
dog plum
dog poison
dog pound
dog race
dog racing
dog reed
dog robber
dog robbing
dog rose
dog rowan tree
dog salmon
dog screw
dog seal
dog shark
dog show
dog sled
dog sledge
dog sleigh
dog snapper
dog soap
dog spike
dog standard
dog star
dog stealing
dog stinkhorn
dog tag
dog tansy
dog tapeworm
dog tax
dog tent
dog the footsteps of
dog thistle
dog thorn
dog-star
dog-stone
dog-stopper
dog-tired
dog-toes
dog-tongue wampee
dog-tooth
dog-toothed
dog-tree
dog-trick
dog-trot
dog-vane
dog-violet
dog-watch
dog-weary
dog-whelk
dogbane family
dogberry tree
dogged perseverance
dogleg fence
dogmatic theology
dogtooth check
dogtooth spar
dogtooth star grass
dogtooth violet
dogtown grass
dogwood family
dogwood poisonbush
doing business
doing nicely
dolce far niente
dolce vita
dole cupboard
dole meadow
dole out
dolich-
doling out
doll baby
doll carriage
doll hospital
doll maker
doll out
doll up
doll's house
doll-faced
doll-like
dollar acceptance
dollar averaging
domestic comedy
domestic drudge
domestic economy
domestic fowl
domestic management
domestic prelate
domestic relations law
domestic science
domestic servant
domestic shorthair cat
domestic tragedy
domestic wine
domestic-relations court
domiciliary visit
dominant character
dominant chord
dominant estate
dominant note
dominant seventh chord
dominant tenement
dominant wavelength
dominate the field
domine dirige nos
domineer over
dominical altar
dominical letter
dominion day
dominion rule
domino effect
domino mask
domino paper
domino theory
domino whist
domitae naturae
don juan
don quixote
don't I know it
don't hold your breath
don't kid yourself
don't know
don't lose any sleep over it
don't make waves
don't rock the boat
don't spare the horses
donate to
donation land
donation party
done for
done in
done to a turn
done to perfection
done up
done with
donjon keep
donkey boiler
donkey boy
donkey crosshead
donkey derby
donkey doctor
donkey ears
donkey engine
donkey hoist
donkey jacket
donkey pump
donkey puncher
donkey sled
donkey tender
donkey topsail
donkey vote
donkey's ears
donkey's years
donkey's years ago
donkey-drawn
donkey-eared
donkey-work
donnybrook fair
doob grass
doom palm
doom ring
doom to
doom to perdition
doom tree
doomed hope
doomed hopes
doon-head-clock
door bed
door chain
door check
door closer
door fastener
door finisher
door fitter
door furniture
door grass
door handle
door hanger
door hasp
door hinge
door jack
door key
door knocker
door latch
door lock
door maker
door mat
door matting
door money
door opener
door prize
door scraper
door spring
door stile
door strap
door switch
door to door
door track
door trap
door trapper
door-roller
door-shaped
door-to-door
door-to-door salesman
dooryard grass
dooryard plantain
dop doctor
dopa reaction
dope fiend
dope off
dope out
dope pusher
dope sheet
dope smuggling
dope story
dope up
dope, the
doppler effect
dor bee
dor bug
dor fly
dor-fly
dorcas gazelle
dore bullion
dore furnace
dormant partner
dormer beam
dormer window
dormer-windowed
dormitory suburb
dormouse phalanger
dorothy perkins
dors-
dors-umbonal
dorsal airdome
dorsal blister
dorsal fin
dorsal lip
dorsal region
dorsal root
dorsal-root ganglion
dorset horn
dorsi-
dorsi-ventral
dorso-
dorso-occipital
dorso-ulnar
dorsum ephippii
dory skiff
dos and don'ts
dos gris
dos nominata
dos rationabilis
dos-
dos-a-dos
dosage compensation
dosage meter
dose of clap
dose of claps
dose of strap oil
dose with
dosimetric medicine
dosing apparatus
dosing siphon
dosing tank
doss down
doss house
dot down
dot figure
dot map
dot product
dot the i's and cross the t's
dot your i's and cross your t's
dot-dash line
double cup
double dagger
double dare
double date
double decomposition
double demy
double diode
double dome
double dot
double double cap
double dresser
double drift
double dummy
double eagle
double elephant
double end
double ender
double entendre
double entendres
double entente
double entry
double exposure
double fault
double feature
double first
double flat
double flower
double foolscap
double for
double fueler
double fugue
double genitive
double glazing
double half-round file
double harness
double helix
double hitch
double hyphen
double image
double in brass
double indemnity
double integral
double jeopardy
double jump
double luff tackle
double magnum
double march
double meaning
double monastery
double mordent
double negative
double obelisk
double or mutual change
double or nothing
double or quits
double orange daisy
double over
double paddle
double pair royal
double pedal point
double personality
double piece
double play
double pneumonia
double possessive
double post
double precision
double predestination
double prime
double print
double purchase
double quatrefoil
double quotes
double reed
double reference
double refraction
double rhyme
double royal
double salt
double sap
double saucepan
double sawbuck
double scull
double sculls
double sharp
double shuffle
double sideband
double sight
double solitaire
double space
double spinnaker
double spread
double sprit
double sprit
double standard
double star
double steal
double stem
double stitch
double stop
double summer time
double tackle
double take
double talk
double tape
double ten
double tide
double time
double triode
double truck
double up
double vision
double whip
double whole note
double wicket
double wing
double wingback formation
double your fist at
double-O
double-Os
double-acting
double-acting engine
double-action
double-action harrow
double-armed
double-armed bolt
double-aspect theory
double-bank
double-banked
double-banker
double-barred
double-barrel
double-barreled
double-barrelled
double-bass
double-battalioned
double-beat valve
double-bedded
double-bell euphonium
double-benched
double-biting
double-bitt
double-bitted
double-bladed
double-blind
double-blossomed
double-bodied
double-bond isomerism
double-bottom
double-bottomed
double-branch
double-branched
double-break switch
double-breasted
double-breasted jacket
double-breasted suit
double-brooded
double-bubble
double-button carbon microphone
double-buttoned
double-chain sling
double-charge
double-check
double-chinned
double-clasping
double-claw
double-clutch
double-coated film
double-concave
double-convex
double-creme
double-crested
double-crested cormorant
double-crop
double-cropped
double-cropping
double-cross
double-crosser
double-crossing
double-cup insulator
double-cupped
double-current generator
double-current signaling
double-cut
double-cut file
double-cut saw
double-cylinder planer
double-dare
double-date
double-dated
double-dating
double-dealer
double-dealing
double-deck
double-decked
double-decker
double-decker sandwich
double-declutch
double-disk
double-disk harrow
double-distilled
double-ditched
double-dodge
double-dog dare
double-dome
double-doored
double-dot display
double-dotted
double-duty
double-dye
double-dyed
double-edged
double-end saw file
double-ended
double-ended bolt
double-ender
double-ender file
double-engined
double-entry accounting
double-entry bookkeeping
double-entry system
double-entry table
double-eyed
double-face
double-faced
double-facedly
double-facedness
double-fault
double-feature
double-flowered
double-flowering
double-fold
double-footed
double-framed
double-fronted
double-ganger
double-gilt
double-handed
double-harness
double-hatched
double-head
double-headed
double-header
double-hearted
double-helical
double-helical gear
double-horned
double-hung
double-image micrometer
double-image prism
double-image telescope
double-ironed
double-jointed
double-keeled
double-knit
double-language theory
double-leaded
double-liability stock
double-line
double-lived
double-livedness
double-loaded
double-loathed
double-lock
double-lunged
double-magnum
double-manned
double-measure door
double-milled
double-minded
double-mindedly
double-mindedness
double-mouthed
double-name paper
double-natured
double-opposed
double-or-nothing
double-page spread
double-park
double-parted and pretty
double-pedal
double-piled
double-pipe condenser
double-pointed
double-pole switch
double-pored
double-ported
double-printing
double-prop
double-queue
double-quick
double-quick time
double-quirked
double-reed
double-reed family
double-reed instrument
double-reef
double-reefed
double-refined
double-refracting
double-ripper
double-rivet
double-riveted
double-roller escapement
double-rooted
double-row radial engine
double-runner
double-scull
double-seated valve
double-seater
double-seeing
double-sensed
double-shear steel
double-shed insulator
double-shot
double-sided
double-sidedness
double-sighted
double-slide
double-soled
double-space
double-spaced
double-spacing
double-spun
double-starred
double-stemmed
double-stitch
double-stitched
double-stop
double-stopped
double-stopping
double-strength
double-struck
double-sunk
double-sunk dial
double-surfaced
double-swing door
double-swing joint
double-sworded
double-system sound recording
double-tailed
double-talk
double-team
double-think
double-thong
double-thread
double-threaded
double-throw switch
double-time
double-timed
double-timing
double-tongue
double-tongued
double-tonguing
double-tooth
double-track
double-trenched
double-trouble
double-truck heading
double-twisted
double-u
double-visaged
double-voiced
double-windowed
double-winged
double-work
double-worked
doublelessness of heart
doubles ententes
doublet pattern
doubt not
doubt the truth of
doubt your word
doubt yourself
doubt-beset
doubt-cherishing
doubt-dispelling
doubt-excluding
doubt-harboring
doubt-ridden
doubt-sprung
doubt-troubled
doubting Thomas
doubting mania
doubting thomas
douceur de vivre
douche bag
dough bird
dough brake
dough kneader
dough mixer
dough stage
dough-baked
dough-bird
dough-boy
dough-colored
dough-dividing
dough-face
dough-faced
dough-kneading
dough-mixing
dough-trough
doughnut tire
douglas fir
doum palm
dousing chock
dousing-chock
dove blue
dove color
dove dock
dove gray
dove hawk
dove of peace
dove plant
dove pox
dove tick
dove-colored
dove-eyed
dove-gray
dove-shaped
dover grass
dover's powder
dovetail cramp
dovetail halving
dovetail hinge
dovetail joint
dovetail molding
dovetail plane
dovetail saw
dovetail slide
dovetail-shaped
dowdy frumpish
dowel bit
dowel jig
dowel maker
dowel pin
dowel plate
dowel pointer
dowel rod
dowel screw
dowel sharpener
dowel spoke
dowel stick
dower chest
dower house
down East
down along
down and out
down at heel
down at heels
down at the heel
down at the heels
down bed
down below
down by the head
down card
down cushion
down feather
down grade
down helm
down home
down in the mouth
down in the world
down left
down on
down on your luck
down on your uppers
down pat
down payment
down picker
down pillow
down pipe
down plucker
down plumage
down right
down runner
down south
down the alley
down the drain
down the hatch
down the pipe
down the rathole
down the spout
down the wind
down thistle
down time
down to bedrock
down to the ground
down to your last cent
down to your last penny
down tree
down trip
down under
down weight
down wool
down your arms
down-and-out
down-and-outer
down-at-heel
down-at-heels
down-at-the-heel
down-at-the-heels
down-beater
down-bow
down-charge
down-coast
down-covered
down-crier
down-curving
down-drag
down-draught
down-easter
down-gyved
down-hip
down-house
down-in-the-mouth
down-lead
down-lying
down-market
down-payment
down-reaching
down-river
down-soft
down-talk
down-the-line
down-to-date
down-to-earth
down-to-earthness
down-trending
draft horse
draft lottery
draft mark
draft mill
draft net
draft off
draft pin
draft rein
draft rod
draft scale
draft tube
draft-exempt
drafted man
drafting board
drafting paper
drafting room
drafting yard
drag a lengthening chain
drag along
drag anchor
drag at your chariot wheel
drag axis
drag before the public
drag boat
drag box
drag bucket
drag bunt
drag cart
drag chain
drag classifier
drag component
drag conveyer
drag crank
drag direction
drag down
drag fold
drag force
drag from
drag harrow
drag hook
drag horse
drag hunt
drag in
drag in by the heels
drag in the mud
drag into
drag into court
drag into the limelight
drain pump
drain repairer
drain rocket
drain spade
drain tester
drain the cup
drain trap
drain tube
drain valve
drain well
Drainage area
Drainage basin
Drainage benefit
Drainage canal
Drainage coefficient
Drainage cycle
Drainage district
Drainage gate
Drainage inlet
Drainage inspector
Drainage level
Drainage pipe
Drainage pit
Drainage pump
Drainage shaft
Drainage system
Drainage theory
Drainage tile
Drainage trap
Drainage tube
Drainage tunnel
Drainage well
Drainage wind
Drained of color
Draining board
Draining tile
drake fly
drake foot
drake green
dram apothecaries'
dram avoirdupois
dram filler
dram glass
drama critic
drama league
drama production
Drama-writing
Dramatic art
dramatic form
dramatic irony
dramatic lyric
dramatic monologue
dramatic overture
dramatic play
dramatic poetry
dramatic series
dramatic soprano
dramatic stroke
dramatic structure
dramatico-musical
dramatis personae
drap d'or
drap-de-berry
drape yourself
drapers teasel
draught off
draught-bridge
dravidian languages
draw a bead on
draw a blank
draw a comparison
draw a conclusion
draw a deep breath
draw a gun on
draw a long breath
draw a parallel
draw a picture
draw a straight furrow
draw ahead
draw an inference
draw and quarter
draw aside
draw away
draw back
draw blank
draw boundaries
draw breath
draw chain
draw cock
draw curtain
draw distinctions
draw dock
draw down
draw first blood
draw forth
draw from
draw game
draw gear
draw hole
draw in
draw in your claws
draw in your horns
draw into
draw it fine
draw lots
draw man
draw near
draw nigh
draw off
draw off the attention
draw on
draw on futurity
draw on the future
draw out
draw over
draw pin
draw play
draw poker
draw press
draw profit
draw rein
draw runner
draw shot
draw slate
draw slip
draw step
draw straws
draw string
draw tab
draw table
draw taper
draw taut
draw tears
draw the attention
draw the breath of life
draw the color line
draw the curtain on
draw the curtains
draw the fangs
draw the fangs of
draw the line
draw the line at
draw the longbow
draw the purse strings
draw the sword against
draw the teeth
draw the teeth of
draw the veil
draw to a close
draw to a head
draw to a peak
draw together
draw top
draw towards
draw up
draw up a plan
draw up a will
draw wages
draw yourself up
draw-
draw-arch
draw-bar
draw-boy
draw-bridge
draw-cut
draw-file
draw-glove
draw-knife
draw-latch
draw-loom
draw-net
draw-out table
draw-plate
draw-sheet
draw-top table
draw-water
draw-well
drawback collet
drawback lock
drawbar horsepower
drawbar load
drawbar pull
drawcut shaper
drawer dovetail
drawer pull
drawer-down
drawer-in
drawer-off
drawer-out
drawer-up
drawing account
drawing awl
drawn out
drawn to
drawn work
drawn-out
drawn-thread work
drawn-work
dray horse
dread rattling thunder
dread-bolted
dread-bolted thunder
dream allegory
dream analysis
dream book
dream dance
dream girl
dream life
dream light
dream name
dream of
dream of other things
dream on
dream state
dream stuff
dream symbolism
dream time
dream up
dream vision
dream wish
dream work
dream world
dream-blinded
dream-born
dream-built
dream-created
dream-footed
dream-found
dream-haunted
dream-haunting
dream-hole
dream-perturbed
dream-stricken
dreamer of dreams
dreamless sleep
dreamlike thinking
dreamy abstraction
dreamy-eyed
dreamy-minded
dreamy-souled
dreamy-voiced
drear-nighted
drear-white
dreary-eyed
dreary-looking
dreary-minded
dreary-souled
dredge belt
dredge boat
dredge box
dredge bucket
dredge can
dredge chain
dredge gear
dredge hoist
dredge hopperman
dredge hull
dredge ladder
dredge malt
dredge net
dredge out
dredge pipe
dredge pontoon
dredge pump
dredge rope
dredge up
dredger bucket
dredging box
dredging bucket
dredging machine
dree-draw
dregs of society
drenched with sweat
drenching rain
dress blues
dress cap
dress circle
dress coat
dress designer
dress down
dress face
dress form
dress goods
dress in
dress out
dress parade
dress rehearsal
dress sheers
dress shield
dress ship
dress shirt
dress shop
dress suit
dress the hair
dress the house
dress the wounds
dress tie
dress to kill
dress uniform
dress up
dress whites
dress-coated
dress-maker
dress-making
dress-up
dressed fit to kill
dressed to advantage
dressed to kill
dressed to the nines
dressed to the teeth
dressed up
dresser cutter
dresser set
dresser spindle
dresser spooler
dresser top
dresser trunk
dressing case
dressing down
dressing forceps
dressing glass
dressing gown
dressing jacket
dressing room
dressing sack
dressing ship
dressing station
dressing table
dressing-board
dressing-case
dressing-down
dressmaker's model
dribble away
driblet cone
dribs and drabs
dried beef
dried milk
dried up
dried-fruit beetle
dried-up
drier-down
drift along
drift anchor
drift angle
drift avalanche
drift away
drift boat
drift bottle
drift copper
drift fisher
drift ice
drift indicator
drift keel
drift lead
drift map
drift meter
drift mine
drift mining
drift net
drift netter
drift off course
drift plug
drift sail
drift sight
drift slide
drift transistor
drift tube
drift wire
drift with the current
drift-ice
drift-netter
drift-wood
driggle-draggle
drill attachment
drill barrel
drill barrow
drill bit
drill block
drill book
drill bow
drill bushing
drill cartridge
drill case
drill changer
drill chuck
drill clamp
drill cleaner
drill cloth
drill collar
drill collet
drill corps
drill cutter
drill cylinder
drill day
drill drift
drill driver
drill engine
drill extension
drill extractor
drill feeder
drill file
drill fluter
drill gauge
drill grinder
drill ground
drill hall
drill hardener
drill harrow
drill holder
drill hole
drill instructor
drill jar
drill jig
drill lubricato
drill maker
drill making
drill mounting
drill pin
drill pipe
drill plow
drill point
drill pointer
drill press
drill rack
drill ratchet
drill regulation
drill rest
drill room
drill sergeant
drill shank
drill sharpener
drill ship
drill sleeve
drill socket
drill speeder
drill spring
drill stand
drill steel
drill straightener
drill team
drill tester
drill tower
drill track
drill twister
drill worker
drill yard
drill-like
drilling bit
drilling fluid
drilling hammer
drilling jig
drilling journal
drilling machine
drilling mud
drilling stem
drilling track
drink a stirrup cup
drink a toast to
drink bottoms-up
drink deep
drink hard
drink in
drink in with rapt attention
drink like a fish
drink mixer
drink money
drink off
drink offering
drink seriously
drink the health of
drink to
drink up
drink-hael
drink-hail
drinker moth
drinking age
drinking bout
drinking cup
drinking fountain
drinking glass
drive a bargain
drive a hard bargain
drive a roaring trade
drive ahead
drive an entering wedge
drive animals
drive at
drive away
drive back
drive crazy
drive dull care away
drive fit
drive from your thoughts
drive home to
drive in
drive insane
drive into a corner
drive into the open
drive into your head
drive mad
drive nozzle
drive off
drive on
drive out
drive screw
drive shaft
drive shoe
drive stakes
drive the pen
drive the pencil
drive to despair
drive to desperation
drive to leeward
drive to ruin
drive to the bad
drive to the dogs
drive to the wall
drive together
drive train
drive up the wall
drive wheel
drive whist
drive you hard
drive you mad
drive yourself
drive-
drive-in
drive-in restaurant
drive-in theater
drivel away
drivel ing idio t
driven from pillar to post
driven snow
driver ant
driver mast
driver's license
driver's seat
driving age
driving and striking force
driving axle
driving band
driving barrel
driving bit
driving board
driving box
driving chain
driving clock
driving dog
driving drum
driving face
driving fit
driving force
driving gear
driving horn
driving horse
driving iron
driving licence
driving mashie
driving mirror
driving out
driving park
driving plate
driving power
driving punch
driving rain
driving range
driving sail
driving shaft
driving snow
driving spring
driving wagon
driving wheel
driving-box
driving-wheel
drizzle-drozzle
drizzling mist
drof-land
drogue chute
droit des gens
droit du seigneur
droits des gens
dromedary corps
dromos tomb
drone bass
drone bee
drone cell
drone fly
drongo cuckoo
drongo shrike
droop-eared
droop-headed
droop-nosed
drooping spirits
drop a bomb
drop a brick
drop a hint
drop a letter
drop a line
drop a tear
drop all idea of
drop anchor
drop arch
drop asleep
drop away
drop bar
drop behind
drop biscuit
drop black
drop bolt
drop bomb
drop bottom
drop box
drop by
drop by drop
drop cannon
drop chalk
drop chronograph
drop cloth
drop cooky
drop cord
drop curtain
drop dead
drop down
drop ear
drop elbow
drop ell
drop fly
drop folio
drop forge
drop forging
drop frame
drop from sight
drop from the clouds
drop from your thoughts
drop front
drop game
drop girt
drop glass
drop goal
drop guide
drop hammer
drop hammerman
drop handle
drop hanger
drop head
drop in
drop in on
drop in temperature
drop in the bucket
drop in the ocean
drop in your tracks
drop initial
drop into a good thing
drop it
drop jaw
drop keel
drop key
drop kick
drop lamp
drop leaf
drop letter
drop like a hot potato
drop line
drop number
drop off
drop on
drop out
drop out of society
drop panel
drop pass
drop pit
drop press
drop roller
drop rudder
drop scene
drop scone
drop screen
drop seat
drop serene
drop shipment
drop shipper
drop shot
drop shutter
drop siding
drop stitch
drop strake
drop stroke
drop sulphur
drop table
drop tank
drop tee
drop testing machine
drop the ball
drop the curtain
drop the handkerchief
drop the hook
drop the mooring
drop the subject
drop to pieces
drop valve
drop vie
drop weight
drop window
drop wire
drop worm
drop your eyes
drop your gaze
drop your guard
drop zinc
drop-
drop-away
drop-bottom bucket
drop-center rim
drop-eared
drop-forged
drop-forging
drop-forging die
drop-front
drop-kick
drop-kicker
drop-leaf
drop-leaf table
drop-leg
drop-letter
drop-meal
drop-off
drop-out
drop-out current
drop-out voltage
drop-scene
drop-shaped
drop-stich
drohead coup
droplet fall
droplet infection
dropped egg
dropped eggs
dropped from the clouds
dropped girt
dropped scone
dropped seat
dropper fly
dropper-on
dropping anchor
dropping angle
dropping bottle
dropping out
dropsy plant
dropsy-dry
dropsy-sick
drought-parched
drought-resisting
drought-stricken
drove chisel
drove work
drove-road
drown care
drown out
drown your sorrows
drowned coast
drowned valley
drowning rain
drowse off
drug abuser
drug addict
drug addiction
drug beetle
drug bottler
drug carriage
drug clerk
drug compounder
drug culture
drug dependence
drug dose
drug fiend
drug grinder
drug habit
drug ice
drug in the market
drug mixer
drug on the market
drug packet
drug pulverizer
drug pusher
drug rash
drug seller
drug store
drug treatment
drug trip
drug user
drug weigher
drug-addicted
drug-damned
drug-grinding
drug-mixing
drug-pulverizing
drug-selling
drug-using
drugged sleep
drugged with sleep
drugstore beetle
drugstore complexion
drugstore cowboy
druid stone
drum armature
drum brake
drum clock
drum controller
drum corps
drum dam
drum escapement
drum feed
drum language
drum major
drum majorette
drum malt
drum memory
drum music
drum out
drum paneling
drum puller
drum sander
drum saw
drum scale
drum screen
drum sieve
drum slide
drum spool
drum stuffing
drum switch
drum table
drum up
drum washer
drum wheel
drum winding
drum-major
drum-major's baton
drum-shaped
drum-type elevator
drum-up
drum-wound
rumble-drone
drumhead cabbage
drumhead court-martial
drumhead justice
drumming out
drummond light
drumstick tree
drunk as a fiddler
drunk as a lord
drunk as a piper
drunk as an owl
drunkard's chair
drunken brawl
drunken carousel
drunken plant
drunken revelry
drunken rye grass
drunken saw
dry air
dry ammunition
dry as a bone
dry puddling
dry quart
dry rent
dry rot
dry run
dry sailing
dry sailor
dry season
dry socket
dry spinner
dry steam
dry sterile thunder without rain
dry storage
dry up
dry wash
dry well
dry wine
dry wit
dry womb
dry-air pump
dry-as-dust
dry-beat
dry-blowing
dry-bone ore
dry-boned
dry-bones
dry-brush
dry-bulb thermometer
dry-burnt
dry-clean
dry-cleanse
dry-cleansed
dry-cleansing
dry-cure
dry-curing
dry-dock
dry-dye
dry-eared
dry-eyed
dry-farm
dry-fine
dry-fist
dry-fly
dry-fly fishing
dry-foot
dry-footed
dry-footing
dry-founder
dry-fruited
dry-grind
dry-gulch
dry-handed
dry-heat cure
dry-ki
dry-land blueberry
dry-land farming
dry-leaved
dry-lipped
dry-looking
dry-mouthed
dry-nurse
dry-nursed
dry-nursing
dry-paved
dry-pick
dry-pipe system
dry-pipe valve
dry-plate process
dry-powder extinguisher
dry-press
dry-press process
dry-roasted
dry-rot
dry-rotted
dry-rub
dry-sail
dry-salt
dry-salted
dry-scrubbed
dry-shave
dry-shod
dry-shoot
dry-skinned
dry-soled
dry-stone
dry-tamp machine
dry-throated
dry-tongued
dry-weather flow
dry-weather vine
drying blotter
drying cabinet
drying chamber
drying fan
drying floor
drying frame
drying house
drying kiln
drying loft
drying oil
drying oven
drying pan
drying paper
drying rack
drying room
drying shed
drying tray
drying tube
drying up
drying yard
dryland farming
dryness fraction
du Bellay
du Cerceau
du Nouy tensiometer
du Vigneaud
du jour
dual carriageway
dual citizenship
dual controls
dual highway
dual nationality
dual personality
dual pricing
dual purpose fund
dual space
dual-control trainer
dual-purpose
dub bright
dub in
duc de Rivoli
duces tecum
duchesse bed
duchesse lace
duck acorn
duck and drake
duck and run
duck ant
duck blue
duck breeder
duck bumps
duck call
duck duty
duck egg
duck fit
duck foot
duck grass
duck green
duck gun
duck hawk
duck hunter
duck joint
duck keeper
duck mole
duck moss
duck oak
duck on a rock
duck on drake
duck on the rock
duck out
duck pass
duck pen
duck potato
duck reaper
duck responsibility
duck ring
duck sauce
duck shot
duck sickness
duck snipe
duck soup
duck table
duck the issue
duck wheat
duck willow
duck's arse
duck's bill
duck's egg
duck's meat
duck-bill
duck-billed
duck-billed dinosaur
duck-billed platypus
duck-egg
duck-egg blue
duck-footed
duck-hawk
duck-legged
duck-retter
duck-toed
duckbill cat
duckbill gar
dull-eared
dull-edged
dull-eyed
dull-head
dull-headed
dull-headedness
dull-lived
dull-looking
dull-pated
dull-pointed
dull-red
dull-scented
dull-sighted
dull-sightedness
dull-sounding
dull-spirited
dull-surfaced
dull-toned
dull-tuned
dull-voiced
dull-witted
dull-wittedness
dulse dealer
dulse-green
duly constituted
dum spiro spero
dum vivimus vivamus
dumb Dora
dumb ague
dumb animal
dumb barge
dumb barter
dumb bid
dumb bunny
dumb cane
dumb cluck
dumb compass
dumb creature
dumb friend
dumb rabies
dumb sheave
dumb show
dumb stricken
dumb struck
dumb thing to do
dumb trick
dumb up
dumb with grief
dumb-bell
dumb-bird
dumb-cane
dumb-show
dumb-struck
dumb-waiter
dumble-
dumdum bullet
dumdum fever
dummy antenna
dummy block
dummy car
dummy cartridge
dummy cop
dummy experiment
dummy index
dummy joint
dummy pass
dummy share
dummy up
dummy variable
dummy whist
dummy-head torpedo
dump altitude
dump body
dump car
dump heap
dump hook
dump on
dump pile
dump rake
dump scow
dump truck
dump wagon
dumping bucket
dumping car
dumping cart
dumping device
dumping duty
dumping grate
dumping ground
dumping machine
dumping place
dumping press
dumping truck
dumping wagon
dumpling cactus
dumpy level
dun crow
dun diver
dun fly
dun-belted
dun-bird
dun-brown
dun-colored
dun-diver
dun-drab
dun-driven
dun-haunted
dun-olive
dun-plagued
dun-racked
dun-red
dun-white
dun-yellow
dun-yellowish
duncan phyfe
dunce cap
dunce's cap
dundathu pine
dundrea- ries
dune buggy
dune dweller
dune forest
dune grass
dune heath
dune land
dune marsh
dune plant
dune sand
dung bath
dung beetle
dung cart
dung chafer
dung fly
dung fork
dung heap
dung pit
dung worm
dung-cart
dung-fork
dunga-runga
dunghill fowl
dunk tree
duo-
duodecim-
duodecimal system
duodecuple scale
duoden-
duodenal ulcer
duodiode-triode
dupable person
duple measure
duple ratio
duple rhythm
duple time
duplex apartment
duplex bed
duplex boiler
duplex escapement
duplex house
duplex lock
duplex oxygenator
duplex process
duplex pump
duplex purchase
duplex telegraphy
duplex-numeric index
duplexity theory
duplicate bridge
duplicate plate
duplicate-pinnate
duplicating machine
duplication of effort
duplication of the cube
duplicato-
duplicato-dentate
duplicato-serrate
duplicato-ternate
duplicity principle
duplicity theory
dura mater
durable goods
durable press
durance vile
durango root
durante vita
durfa grass
durfee grass
during the interval
during the time
during the time that
during which time
durry-dandy
durum wheat
dusk dark
dusk-down
dusky grouse
dusky shark
dusky-browed
dusky-colored
dusky-faced
dusky-mantled
dusky-raftered
dusky-sandaled
dust ball
dust band
dust bin
dust bowl
dust brush
dust cap
dust cart
dust chamber
dust cloak
dust cloud
dust coat
dust count
dust counter
dust cover
dust devil
dust down
dust exhaust
dust extractor
dust furrow
dust gun
dust heap
dust in the eyes
dust infection
dust jacket
dust louse
dust mop
dust mulch
dust of ages
dust off
dust process
dust remover
dust ruffle
dust seal
dust shot
dust storm
dust thrown in the eye
dust trunk
dust well
dust whirl
dust your jacket
dust-bath
dust-begrimed
dust-box
dust-brand
dust-colored
dust-counter
dust-covered
dust-dry
dust-gray
dust-laden
dust-laying
dust-point
dust-polluting
dust-producing
dust-soiled
dust-throwing
dust-tight
dust-up
duster coat
duster-off
dusting brush
dusting colors
dusting powder
dusting-powder
dusty clover
dusty death
dusty miller
dutch clover
dutch courage
dutch door
dutch elm disease
dutch hoe
dutch lunch
dutch oven
dutch treat
dutch uncle
duties and responsibilities
duty calls you to
duty officer
duty visit
duty-bound
duty-free
duty-free shop
dvi-manganese
dwarf Japanese quince
dwarf Juneberry
dwarf alder
dwarf banana
dwarf bean
dwarf chestnut
dwarf cornel
dwarf crested iris
dwarf door
dwarf fan palm
dwarf ginseng
dwarf goldenrod
dwarf laurel
dwarf mallow
dwarf meadow grass
dwarf morning-glory
dwarf nasturtium
dwarf palmetto
dwarf poinciana
dwarf star
dwarf sumac
dwell in
dwell in your memory
dwell on
dwell upon
dwelling house
dwelling place
dwelling upon
dy-
dyadic system
dyakis-dodecahedron
dycrete process
dye bag
dye base
dye bath
dye boiler
dye box
dye bucket
dye grinder
dye in the wool
dye maker
dye mixer
dye pine
dye pot
dye remover
dye sensitizing
dye tank
dye therapy
dye transfer
dye tub
dye vat
dye works
dye your hands in blood
dyed in the wool
dyed-in-the-wool
dyer's furze
dyer's greenweed
dyer's rocket
dyer's woodruff
dyer's-broom
dyer's-greenweed
dyer's-weed
dyewood clipper
dyewood cutter
dyewood extract
dyewood grinder
dyewood liquor
dyewood miller
dying away
dying breath
dying day
dying down
dying for
dying hour
dying off
dying to
dying word
dying words
dynam-
dynamic economics
dynamic electricity
dynamic energy
dynamic geology
dynamic lift
dynamic markings
dynamic meteorology
dynamic microphone
dynamic pressure
dynamic psychology
dynamic speaker
dynamic stability
dynamic symmetry
dynamic wind rose
dynamical astronomy
dynamical stability
dynamite bomb
dynamite cap
dynamite glycerin
dynamite gun
dynamite maker
dynamite mixer
dynamite thawer
dynamo belting
dynamo brush
dynamo casting
dynamo commutator
dynamo erector
dynamo lubricator
dynamo winder
dynamo-
dynamometric governor
dynatron oscillator
dyne centimeter
dyne-seven
dys-
dysenteric arthritis
dysentery root
dzera-a-rabry pik
dzera-a-torky pik
e layer
e pluribus unum
e region
e-
eV
each and all
each and every
each and every one
each in its turn
each one
each other
each to each
each-where
eager assent
eager attention
eager beaver
eager-eyed
eager-hearted
eager-looking
eager-minded
eager-seeming
eagle bird
eagle boat
eagle claw
eagle eye
eagle feather
ear stone
ear tag
ear tick
ear tree
ear trumpet
ear wagon
ear, nose, and throat specialist
ear-ache
ear-brisk
ear-cockie
ear-deafening
ear-filling
ear-leaved
ear-mark
ear-minded
ear-mindedness
ear-piercing
ear-rending
ear-rent
ear-ring
ear-splitting
ear-to-ear grin
ear-trumpet
ear-wax
ear-witness
eardrop tree
eared seal
earl duck
earl marshal
earl marshall
earl palatine
earless lizard
earless seal
earlier state
earliest inhabitant
earls palatine
early bird
early blight
early closing
early comer
early death
early edition
early enough
early grave
early hour
early meadow grass
early meadow rue
early mesquite
earth foam
earth goddesses
earth hog
earth hole
earth house
earth hunger
earth induction compass
earth inductor compass
earth ivy
earth life
earth lodge
earth louse
earth metal
earth metals
earth moss
earth mother
earth movement
earth orbit
earth owl
earth pig
earth pillar
earth pitch
earth plate
earth plum
earth quadrant
earth science
earth smoke
earth spirit
earth spring
earth stopper
earth table
earth tide
earth tilting
earth tone
earth tremor
earth up
earth wave
earth wax
earth wire
earth wolf
earth's crust
earth-apple
earth-ball
earth-board
earth-born
earth-bound
earth-boundness
earth-convulsing
earth-delving
earth-destroying
earth-devouring
earth-din
earth-dwelling
earth-eating
earth-engendered
earth-fed
earth-god
earth-goddess
earth-homing
earth-light
earth-lit
earth-mad
earth-moving
earth-nut
earth-old
earth-refreshing
earth-rending
earth-shaking
earth-sounds
earth-sprung
earth-stained
earth-strewn
earth-vexing
earth-wide
earth-wrecking
earthly minded
earthly-minded
earthly-mindedness
earthly-wise
earthnut oil
earthquake insurance
earthquake-proof
ease in
ease matters
ease of belief
ease off
ease one of
ease out
ease the helm
ease the rudder
ease up
ease up to
ease your load
ease yourself
ease-off
ease-up
easy circumstances
easy come
easy come, easy go
easy death
easy does it
easy end
easy game
easy go
easy going
easy lay
easy mark
easy mind
easy money
easy of belief
easy on the eyes
easy pickings
easy prices
easy purse strings
easy rider
easy slope
easy street
easy target
easy temper
easy thing
easy to be seen
easy to get along with
easy to speak to
easy to understand
easy victory
easy virtue
easy winner
easy woman
easy-fitting
easy-flowing
easy-going
easy-hearted
easy-humored
easy-mannered
easy-minded
easy-natured
easy-paced
easy-rising
easy-running
easy-spoken
eat away
eat crow
eat dirt
eat heartily
eat hearty
eat high off the hog
eat humble pie
eat in
eat into
eat like a bird
eat like a horse
eat off the same trencher
eat out
eat out of house and home
eat out of your hand
eat sparingly
eat the bread of idleness
eat the dust of
eat the wind out of
eat to live
eat to windward
eat to windward of
eat up
eat up the road
eat up the track
eat you out of house and home
eat your fill
eat your head off
eat your heart out
eat your terms
eat your words
eat, drink, and be merry
eat-all
eaten up
eaten up with curiosity
eaten-leaf
eater-out
eating house
eating tobacco
eating up
eau de Cologne
eau de Javelle
eau de cologne
eau de jasmin
eau de lavande
eau de nil
eau de rose
eau de toilette
eau de vie
eau de vie de marc
eau forte
eau minerale
eclectic medicine
eclipse breeze
eclipse plumage
eclipsing binary
eclipsing variable
eco-
ecological niche
ecological psychology
economic authority
economic blindness
economic class
economic community
economic cycle
economic determinism
economic determinist
economic expansion
economic expert
economic geography
economic geology
economic good
economic growth
economic man
economic planning
economic poison
economic rent
economic science
economic self-sufficiency
economic stagnation
economic strike
economic support
economic system
economic warfare
economical of words
economics in action
economy class
economy coil
economy of assumption
economy of language
economy of means
economy of words
economy prices
economy size
economy wall
ecrevisse de mer
ecri silk
ect-
ecto-
ectopic pregnancy
egg and anchor
egg and dart
egg and spoon race
egg and tongue
egg apparatus
egg cell
egg coal
egg cozy
egg cream
egg cup
egg drop soup
egg flip
egg foo yong
egg glass
egg in your beer
egg on
egg roll
egg rolling
egg salad sandwich
egg sauce
egg sleeker
egg slice
egg spoon
egg stone
egg tempera
egg timer
egg tooth
egg white
egg whites
egg-and-spoon race
egg-bound
egg-nog
egg-plant
egg-shaped
egg-shell
egg-white
egg-white injury
eggdrop soup
eggs Benedict
eggshell blue
eggshell china
eggshell porcelain
eggy-hot
ego defense
ego defenses
ego ideal
ego trip
ego-id conflict
ego-involve
ego-libido
ego-trip
egoistic ethics
egoistic hedonism
egregious ass
egressAstronomy
egret monkey
egyptian cotton
egypto-
eider down
eider duck
eider yarn
eider-down
eidetic image
eidetic imagery
eidetic memory
eigen-
eight ball
eight bells
eight cut
eight o'clock
eight-angled
eight-armed
eight-ball antenna
eight-celled
eight-cylinder
eight-day
eight-flowered
eight-gauge
eight-hour
eight-oar
eight-oared
eight-ply
eight-quarter cap
eight-spot
eight-square
eight-wheeler
eighter from Decatur
eightfold way
eighth note
eighth rest
eighth stock
eightsome reel
eighty-eight
eighty-eighth
eighty-fifth
eighty-first
eighty-five
eighty-four
eighty-fourth
eighty-nine
eighty-niner
eighty-ninth
eighty-one
eighty-second
eighty-seven
eighty-seventh
eighty-six
eighty-sixth
eighty-third
eighty-three
eighty-two
eis wool
either or
either-or
ejection capsule
ejection seat
ejector seat
eka-aluminum
eka-iodine
eke out
eke out a living
eke out an existence
eke-name
el dorado
elaeo-
elan vital
ela-
esthetic anklet
elastic axis
elastic band
elastic bandage
elastic binder
elastic braid
elastic cement
elastic center
elastic currency
elastic deformation
elastic gel
elastic hosier
elastic hosiery
elastic kneecap
elastic limit
elastic loom
elastic modulus
elastic money
elastic object
elastic paper
elastic rubber
elastic stocking
elastic substance
elastic tape
elastic thread
elastic tissue
elastic varnish
elastic veiling
elastic wave
elastic-seeming
elastic-sided
elbow bender
elbow board
elbow catch
elbow cop
elbow crooker
elbow grease
elbow in
elbow in the ribs
elbow length
elbow rail
elbow telescope
elbow-shaped
elder bark
elder blossom
elder blow
elder fungus
elder hand
elder statesman
elder wine
elder-born
elder-brother
elder-leaved
elder-sister
elderberry wine
eldest hand
eldest of things
eldest-born
elec cement
elected by acclamation
election board
election district
election fraud
election returns
elective operation
electoral college
electoral district
electoral vote
electr-
electra complex
electric arc
electric attraction
electric beaver
electric blanket
electric blue
electric brougham
electric cable
electric candle
electric capacitance
electric car
electric chair
electric charge
electric circuit
electric clock
electric column
electric conduction
electric constant
electric cooker
electric cord
electric current
electric detonator
electric dipole moment
electric discharge
electric drill
electric driller
electric eel
electric exploder
electric eye
electric fan
electric field
electric field intensity
electric field strength
electric fish
electric flow
electric frying pan
electric furnace
electric fuse
electric gain
electric glow
electric guitar
electric hammer
electric hare
electric heat
electric heater
electric heating
electric horsepower
electric intensity
electric iron
electric lamp
electric light
electric light bulb
electric lighting
electric meter
electric meters
electric mole
electric motor
electric needle
electric organ
electric pad
electric polarity
electric potential
electric power
electric railway
electric range
electric ray
electric razor
electric reactor
electric refrigeration
electric refrigerator
electric repulsion
electric resistance
electric riveter
electric roaster
electric sander
electric saw
electric seal
electric shaver
electric shock
electric soldering iron
electric spark
electric storm
electric stove
electric stream
electric switch
electric telegraph
electric thermometer
electric toaster
electric torch
electric train
electric typewriter
electric unit
electric units
electric wave
electric welder
electric wind
electric wire
electric-arc furnace
electric-arc lamp
electric-discharge lamp
electric-discharge tube
electric-drive
electric-heat
electric-heated
electric-lighted
electric-powered
electrical capacity altimeter
electrical communication
electrical degree
electrical device
electrical engineer
electrical engineering
electrical governor
electrical part
electrical parts
electrical parts and devices
electrical scanning
electrical science
electrical storm
electrical transcription
electricity meter
electro-
electro-biology
electro-discharge machining
electro-magnet
electro-optical effect
electro-organic chemistry
electro-osmosis
electro-osmotic
electro-osmotically
electro-pneumatic organ
electro-ultrafiltration
electrocaloric effect
electrochemical series
electroconvulsive therapy
electrode conductance
electrode potential
electrode resistance
electrodeless discharge
electrodynamic speaker
electrohydraulic steering gear
electroless plating
electrolier switch
electrolytic capacitor
electrolytic cell
electrolytic conductor
electrolytic dissociation
electrolytic gas
electrolytic interrupter
electrolytic machining
electrolytic protection
electromagnetic field
electromagnetic induction
electromagnetic interaction
electromagnetic lifting magnet
electromagnetic moment
electromagnetic pump
electromagnetic radiation
electromagnetic speaker
electromagnetic spectrum
electromagnetic tape
electromagnetic unit
electromagnetic wave
electromechanical controller
electromotive force
electromotive force
electron accelerator
electron affinity
electron beam
electron camera
electron capture
electron cloud
electron diffraction
electron dynamics
electron emission
electron flow
electron gas
electron gun
electron layers
electron lens
electron magnetic spectroscopy
electron micrograph
electron microscope
electron microscopy
electron movement
electron multiplier
electron optics
electron pair
electron physics
electron probe microanalysis
electron ray
electron shells
electron shower
electron spin
electron spin resonance
electron state
electron stream
electron telescope
electron theory
electron theory of atoms
electron theory of electricity
electron theory of solids
electron transfer
electron transport
electron tube
electron tubes
electron volt
electron-beam tube
electron-diffraction camera
electron-image projector
electron-image tube
electron-positron pair
electron-ray tube
electron-volt
electron-wave tube
electronic Bohr magneton
electronic air conditioner
electronic air filter
electronic altimeter
electronic battery
electronic brain
electronic carillon
electronic chronometer
electronic circuit
electronic clock
electronic communication
electronic communications
electronic comparator
electronic computer
electronic computers
electronic control
electronic cop
electronic counter
electronic data processing
electronic detector
electronic device
electronic devices
electronic drum
electronic effect
electronic emission
electronic engineering
electronic fix
electronic flash
electronic fuel gauge
electronic hearing aid
electronic heater
electronic heating
electronic limit gauge
electronic meter
electronic meters
electronic music
electronic navigation
electronic nutcracker
electronic organ
electronic oscillator
electronic pilot
electronic potentiometer
electronic precipitator
electronic recorder
electronic refrigeration
electronic refrigerator
electronic revolution
electronic scanning
electronic servo
electronic stenciling machine
electronic stethoscope
electronic surveillance
electronic switch
electronic switching
electronic testing
electronic testing equipment
electronic timer
electronic tube
electronic typewriter
electronic voltmeter
electronic-flash unit
electronic-mechanical control
electronics dictionary
electronics engineer
electronics king
electronics physicist
electropneumatic transducer
electroshock therapy
electrostatic field
electrostatic generator
electrostatic inductor
electrostatic induction
electrostatic lens
electrostatic machine
electrostatic precipitation
electrostatic precipitator
electrostatic printing
electrostatic speaker
electrostatic spraying system
electrostatic storage unit
electrostatic tube of force
electrostatic unit
electrotherapeutic treatment
electrotype press
electrovalent bond
elegant penmanship
elegant variation
elegant writer
elegiac couplet
elegiac distich
elegiac pentameter
elegiac poetry
elegiac stanza
elegiac verse
eleme figs
elemental area
elemental spirit
elementary algebra
elementary arithmetic
elementary dictionary
elementary education
elementary instruction
elementary mathematics
elementary metal
elementary metals
elementary particle
elementary process
elementary quantum of action
elementary school
elementary unit
elemi figs
eleolite syenite
elephant apple
elephant beetle
elephant bird
elephant driver
elephant fish
elephant grass
elephant gun
elephant seal
elephant shrew
elephant's trunk
elephant's trunk snake
elephant's-ear
elephant's-foot
elephant's-foots
elephant-ear fern
elephant-hide pahoehoe
eleuthera bark
eleuthero-
elevate your mood
elevated railroad
elevated railway
elevating rudder
elevation Astronomy
elevator angle
elevator boy
elevator car
elevator conductor
elevator conveyer
elevator dredge
elevator girl
elevator man
elevator operator
elevator shaft
elevator shaft
elevator signal
elevator signal
elevator starter
eleven o'clock
eleven-o'clock-lady
eleven-plus
eleven-year period
eleventh chord
eleventh hour
eleventh-hour
elf arrow
elf child
elf dance
elf kind
elf kindred
elf knight
elf owl
elf queen
elf-god
elf-lock
emerald-green
emerge from
emergency barrage
emergency boat
emergency brake
emergency control
emergency exit
emergency landing field
emergency landing gear
emergency light
emergency man
emergency money
emergency operation
emergency rations
emergent evolution
emeritus status
emery belt
emery board
emery cloth
emery file
emery paper
emery powder
emery rock
emery surfacer
emery wheel
emet-o-cathartic
eminence grise
eminent domain
emission current
emission spectrum
emission theory
emit a smell
emit a sound
emitter current
emitter junction capacitance
emitter resistance
emitter signal current
emitter signal voltage
emotional appeal
emotional capacity
emotional charge
emotional deadness
emotional disorder
emotional dissociation
emotional health
emotional instability
emotional instability reaction
emotional insulation
emotional life
emotional nuance
emotional numbness
emotional outburst
emotional paralysis
emotional release
emotional response
emotional shade
emotional shock
emotional support
emotional symptom
emotionally dead
emotionally numb
emotionally paralyzed
emotionally respond
emotionally unstable
emotionally unstable personality
emotive meaning
empathize with
emperor boa
emperor butterfly
emperor moth
emperor penguin
empire builder
empire building
empire cloth
empire day
empire-builder
empiric treatment
empirical existence
empirical fact
empirical formula
empirical politics
employ the time
employ time
employ your time in
employ yourself in
employ yourself upon
employer-owned
employment agency
employment agent
employment bureau
employment contract
employment exchange
empress cloth
empress of silence
empress tree
emptiness of mind
empty ceremony
empty claim
empty formality
empty gesture
empty hands
empty morph
empty name
empty of
empty out
empty pocket
empty purse
empty sound
empty space
empty stomach
empty threat
empty title
empty view
empty word
empty words
empty-armed
empty-barreled
empty-bellied
empty-cell process
empty-fisted
empty-handed
empty-handedness
empty-headed
empty-headedness
empty-looking
empty-minded
empty-mindedness
empty-mouthed
empty-noddled
empty-paneled
empty-pated
empty-skulled
empty-stomached
empty-vaulted
empty-voiced
emu apple
emu bush
emu grass
emu-wren
emulsion colloid
emulsion paint
en attendant
en avant
en bloc
encephal-
encephalitis lethargica
encephalo-
enchanter's nightshade
encircling movement
enclosed order
enclosed space
enclosure act
enclosure wall
encompass with shadow
encounter danger
encounter group
encounter therapy
encroach upon
encyclopedic knowledge
end around
end artery
end bell
end bulb
end burner
end for end
end game
end in smoke
end in view
end line
end man
end matter
end mill
end of burning
end of debate
end of life
end of steel
end of the earth
end of the line
end of your rope
end of your tether
end off
end on
end organ
end paper
end pin
end plate
end play
end point
end product
end result
end rhyme
endocrine gland
coderm disc
edoderm lamella
edogamous group
edomersion lens
edomersion objective
edomorphism ring
edoplasmic reticulum
endorsement in blank
endoscopic camera
endotheli-
endothemer knife
endow with
endow with life
endowed with
endowed with beauty
endowed with life
endowment assurance
endowment insurance
endurance limit
endurance race
endurance ratio
endurance strength
endure forever
endwise coil
enemy aircraft
enemy alien
enemy atrocities
enemy line
enemy lines
energy band
energy charge
energy component
energy level
energy metabolism
energy meter
energy state
energy surface density
energy voltage
energy-consuming
energy-producing
enfant perdu
enfant terrible
enfants perdus
enfants terribles
enforce economies
enforce upon
enforce your claim
enforced respite
engage attention
engage in
engage in a conversation
engage in battle
engage in hostilities
engage in marriage
engage in personalities
engage the attention
engage the mind
engage the thoughts
engage with
engage yourself
engage yourself with
engaged column
engaged in thought
engaged tone
engagement book
engagement ring
engine builder
engine cleaner
engine company
engine control
engine controls
engine cultivator
engine department
engine driver
engine fitter
engine gauge
engine house
engine lathe
engine maker
engine making
engine parts
engine pilot
engine rod
engine room
engine shop
engine size
engine smith
engine space
engine tender
engine turning
engine work
engine worker
engine yard
engine-driven
engine-room officer
enjoy friendly relations with
enjoy good health
enjoy good relations with
enjoy prosperity
enjoy single blessedness
enjoy the use of
enjoy your own company
enjoy yourself
enjoying health
enjoyment of property
enlarge the mind
enlarge upon
enlist into service
enlist under the banner of
enlisted man
enlisted woman
enmeshed in
ennea-eteric
enol form
enol-keto isomerism
enough and then some
enough and to spare
enough in all conscience
enough said
enough to drive you mad
enough to get by on
enough to make a preacher swear
enough to provoke a saint
enough to wake the dead
enp-
enroll a jury
ens realissimum
ensemble music
ensemble singing
enshrine in the memory
ensign armorial
ensign fly
ensign staff
ensign-bearer
ensue from
ent-
entangled in
entente cordiale
enter a protest
enter into
enter into competition with
enter into detail
enter into possession
enter into the feelings of
enter into the ideas of
enter into the spirit of
enter into your view
enter into your views
enter on
enter the arena
enter the arena with
enter the lists
enter the ring with
enter upon
enter with a will
enter your mind
enter-
entered hound
entered through another gate
enteric fever
entering wedge
entero-
entertain a belief
entertain a dislike to
entertain a feeling
entertain a theory
entertain an opinion
entertain doubts
entertain guests
entertain ideas
entertain respect for
entertain suspicions
entertain the hope
entertain the idea of
entertain the inner man
entertain thoughts of
entertainment industry
enthrone your own will
enthusiastic about
entire function
entire horse
entire performance
entire satisfaction
entire-leaved
entire-wheat
entitled to
ento-
ento-ectad
entom-
entomo-
entrail pahoehoe
entrance certificate
entrance cone
entrance examination
entrance fee
entrance hall
entrance money
entrance pallet
entrance pupil
entrance-denying
entre deux ages
entre nous
entrenching tool
entrust with information
entry card
enula campana
envelope addresser
envelope bander
envelope case
envelope clasp
envelope designer
envelope die
envelope folder
envelope gummer
envelope holder
envelope maker
envelope moistener
envelope opener
envelope printer
envelope sealer
envelope table
envelope top
envelope weigher
environing circumstances
environing phenomena
environmental conservation
environmental disease
environmental diseases
environmental pollution
environmental resistance
envoy extraordinary
enwrap the thoughts
enwrapped in mystery
enzootic ataxia
eo nomine
eo-
eol-
eolian deposit
eolithic man
ep-
epacris family
epana-
epater le bourgeois
epaulet bat
epaulet sleeve
epaulette tree
epenthetic vowel
eph-
ephemeralis second
ephemeralis time
epi-
epic machinery
epic poet
epic poetry
epic simile
epic theater
epic verse
epicanthic fold
epicyclic train
epicycloidal gear
epicycloidal wheel
epidemic cholera
epidemic disease
epidemic encephalitis
epidemic meningitis
epidemic parotitis
epidemic pleurodynia
epiderm-
epididymo-orchitis
epidote group
epidural anaesthesia
epiglottot-hyoidean
epilepsia gravior
epilepsia major
epilepsia minor
epilepsia mitior
epilepsia nutans
epilepsia tarda
epilept-
ephrophysis cerebri
episcopai ring
episcopal sandal
episcopal vestments
epistemological idealism
epistemological logic
epistemological realism
epistemological realist
epistle side
epistolary communication
epistolary intercourse
epistolary novel
epitaxial transistor
epitheli-
epithelial pearl
epizootic aphtha
epoch-forming
epoch-making
epoch-marking
epoxy resin
epsilon-delta
epsilon-neighborhood
epsom salt
epsom salts
equal opportunity employer
equal share
equal sign
equal temperament
equal to
equal-angled
equal-aqual
equal-area
equal-area projection
equal-armed
equal-balanced
equal-blooded
equal-eyed
equal-glumed millet
equal-handed
equal-headed
equal-limbed
equal-poised
equal-sided
equal-souled
equal-weighted
equalizing file
equalization fee
equalization fund
equalization period
equalizer brake
equalizer set
equalizing bar
equalizing dynamo
equalizing file
equalizing gear
equalizing pipe
equalizing pulse
equally pinnate
equals sign
equation clock
equation division
equation movement
equation of state
equation of time
equation price
equation solver
equator coordinates
equatorial telescope
equatorial tide
equatorial trough
equestrian director
equi-
equi-gram-molar
equiangular hyperbola
equilateral hyperbola
equilateral triangle
equilibrium isomerism
equilibrium pressure
equilibrium sense
equilibrium valve
equine distemper
equine encephalomyelitis
equine infectious anaemia
equine infectious anemia
equinoctial circle
equinoctial colure
equinoctial hour
equinoctial line
equinoctial point
equinoctial rains
equinoctial storm
equinoctial year
equipartition of energy
equipment bond
equipment note
equipment trust
equipment trust bond
equipment trust certificate
equipoise rudder
equitable estate
equitable interest
equitable jurisdiction
equitime point
equity capital
error detector
error in judgment
error in speech
error of closure
error signals
error-blasted
error-darkened
error-prone
error-proof
error-stricken
error-tainted
error-teaching
eruptive fever
erythema induratum
erythema nodosum
eryth-
erithredema polyneuropathy
erythro-
erithroblastosis fetalis
erythrobastosis neonatorum
erythrol tetranitrate
es-
escalator clause
escalator plan
escalier derobe
escallop-shell
escape artist
escape attention
escape by the skin of your teeth
escape clause
escape cock
escape earth
escape hatch
escape into fantasy
escape mechanism
escape notice
escape one
escape pipe
escape prison
escape road
escape route
escape shaft
escape the memory
escape valve
escape velocity
escape wheel
escape with a whole skin
escape without penalty
escape your lips
escapement error
escaping tendency
escort carrier
escort fighter
escort vessel
escort wagon
escutcheon of pretence
escutcheon plate
esemplastic imagination
esemplastic power
eskimo dog
eso-
esophageal ulcer
esophageal speech
esophageo-cutaneous
esophageo-enterostomy
esoteric meaning
esoteric reality
esparto grass
espionage agent
espouse a belief
espouse a theory
espouse nonviolence
espouse the cause of
esprit d’escalier
esprit de corps
esprit fort
esquire based
esquisse-esquisse
essay-writing
esse est percipi
esse quam videri
essence d’orient
essence of bergamot
essence of life
essence of mirbane
essence of myrbane
essential amino acid
essential epilepsy
essential facts
essential hypertension
essential matter
essential nature
essential oil
esson day
esson roll
est modus in rebus
establish connection
establish residence
established church
established fact
established way
establishing shot
estate agent
estate and effects
estate at sufferance
estate at will
estate car
estate duty
estate for life
estate for years
estate in expectancy
estate in fee
estate in possession
estate in tail
estate manager
estate of freehold
estate of the realm
estate pour autre vie
estate rubber
estate tail
estate tax
estate waggon
estate wagon
ester gum
ester value
esthesio-
estivo-autumnal
esto perpetua
estragon oil
estral cycle
estrangelo alphabet
estrous cycle
estuarine area
et al
et alii
et cetera
et hoc genus omne
et id genus omne
et seq
et sequq
et sequens
et sic de similibus
et sqq
et tu
ethical system
ethico-
ethiops martial
ethiops mineral
ethmo-
ethmoid bone
ethnic community
ethnic group
ethnic joke
ethnic music
ethnic vote
ethno-
ethyl acetate
ethyl acetoacetate
ethyl acetone
ethyl alcohol
ethyl aminobenzoate
ethyl butanoate
ethyl butyrate
ethyl caproate
ethyl capronate
ethyl carbamate
ethyl cellulose
ethyl chloride
ethyl ester
ethyl ether
ethyl gas
ethyl group
ethyl hexanoate
ethyl hexoate
ethyl hydride
ethyl malonate
ethyl mercaptan
ethyl methyl ketone
ethyl nitrate
ethyl nitrite
ethyl nitrite spirit
ethyl oenanthate
ethyl oxide
ethyl radical
ethyl sulfide
ethyl urethan
ethyl urethane
ethylene alcohol
ethylene bromide
ethylene chloride
ethylene dibromide
ethylene dichloride
evasive action
evasive reasoning
evasive reply
eve-churr
eve-jar
eve-star
even break
even chance
even lot
even money
even now
even number
even odds
even off
even out
even pace
even permutation
even so
even stephen
even temper
even tenor
even the score
even trade
even up
even with
even-
even-bell system
even-christian
even-edged
even-handed
even-handedly
even-handedness
even-minded
even-mindedness
even-money
even-numbered
even-old
even-paged
even-pleached
even-set
even-spun
even-star
even-steven
even-tempered
even-tenored
even-toed
even-toothed
even-up
ever the same
ever-abiding
ever-active
ever-admiring
ever-angry
ever-bearing
ever-being
ever-beloved
ever-blazing
ever-blessed
ever-blooming
ever-burning
ever-celebrated
ever-changeful
ever-changing
ever-circling
ever-conquering
ever-constant
ever-craving
ever-dear
ever-deepening
ever-dripping
ever-drizziling
ever-dropping
ever-durable
ever-during
ever-during dark
ever-duringness
ever-dying
ever-echoing
ever-endingly
ever-esteemed
ever-expanding
ever-faithful
ever-fast
ever-fertile
ever-fresh
ever-friendly
ever-glooming
ever-goading
ever-going
ever-growing
ever-happy
ever-honored
ever-increasing
ever-living
ever-loving
ever-mingling
ever-moving
ever-new
ever-noble
ever-normal granary
ever-present
ever-prompt
ever-ready
ever-recurrent
ever-recurring
ever-renewing
ever-smiling
ever-strong
ever-thrilling
ever-varying
ever-victorious
ever-wearing
ever-white
ever-widening
ever-willing
ever-wise
ever-young
everglade kite
everglade palm
evergreen beech
evergreen bittersweet
evergreen blackberry
evergreen blueberry
evergreen cherry
evergreen clematis
evergreen elm
evergreen grape
evergreen grass
evergreen magnolia
evergreen millet
evergreen oak
evergreen privet
evergreen snakeroot
evergreen thorn
evergreen trumpet flower
evergreen winterberry
evergreen wood fern
everlastimg fire
everlasting flower
everlasting moment
everlasting pea
everlasting thorn
everlasting torment
every bit
every bit a
every day
every hour
every inch
every inch a king
every man Jack
every man jack
every moment
every mother's son
every now and then
every once in a while
every one
every one in his turn
every other
every so often
every which way
every whit
every-way
everybody and his uncle
everybody's fool
everything being equal
everything but the kitchen sink
everything that is
everywhere-dense
evet e
eviction clause
evidence in chief
evidence-proof
evil child
evil courses
evil day
evil dispensation
evil disposition
evil eye
evil fortune
evil genius
evil hour
evil humor
evil intent
evil man
evil nature
evil person
evil reputation
evil repute
evil speaking
evil spirit
evil spirits
evil star
evil woman
evil-affected
evil-affectedness
evil-boding
evil-complexioned
evil-disposed
evil-doing
evil-eyed
evil-faced
evil-fashioned
evil-favored
evil-favoredly
evil-favoredness
evil-favoured
evil-featured
evil-fortuned
evil-gotten
evil-headed
evil-hued
evil-humored
evil-impregnated
evil-looking
evil-loved
evil-mannered
evil-minded
evil-mindedly
evil-mindedness
evil-mouthed
evil-ordered
evil-piecéd
evil-qualified
evil-savored
evil-shaped
evil-shapen
evil-smelling
evil-sounding
evil-sown
evil-spun
evil-starred
evil-taught
evil-tempered
evil-theved
evil-thoughted
evil-tongued
evil-weapened
evil-willed
evil-won
evoke a response
evoke from the dead
evoked potential
evolutionary change
evolve into
ewe bramble
ewe lamb
ewe teg
ewe-daisy
ewe-gowan
ewe-neck
ewe-necked
ex adverso
ex aequo et bono
ex animo
ex ante
ex cathedra
ex coupon
ex div
ex div<
ex dividend
ex facie
ex facto
ex gratia
ex hypothesi
ex int
ex lege
ex lib
ex libris
ex maleficio
ex more
ex natura rei
ex new
ex nihilo nihil fit
ex off
ex officio
ex opere operato
ex parte
ex parte evidence
ex pede Herculem
ex post
ex post facto
ex post facto examination
ex post facto law
ex pro brate
ex professo
ex promission
ex proprietary
ex rights
ex ship tackles
ex silentio
ex store
ex voto
ex voto offering
ex warrants
ex works
ex-
ex-army
ex-cathedra
ex-consul
ex-convict
ex-czar
ex-directory
ex-emperor
ex-employee
ex-enemy
ex-governor
ex-holder
ex-invalid
ex-judge
ex-kaiser
ex-king
ex-libres
ex-librism
ex-librist
ex-mayor
ex-minister
ex-official
ex-officio
ex-pier
ex-praetor
ex-president
ex-quay
ex-rights
ex-service
ex-serviceman
ex-servicemen
ex-ship
ex-voto
exa-
exact counterpart
exact description
exact differential
exact from
exact likeness
exact mates
exact measure
exact science
exactly alike
exaggerate your own merits
exaggerated lengths
exaggerated respect
exalt to the skies
examination by ear
examination of conscience
examination school
examine by ear
examine cursorily
examine point by point
examine side by side
examine the books
examine thoroughly
examine your conscience
examine-in-chief
examining post
examining room
examining side by side
excel at
excel in
excellent accommodations
excellent citizen
excellent companion
excellent manners
excelsior knife
except for
except that
exception taken of
excess demand
excess fare
excess insurance
excess profits tax
excess reinsurance
excess sound pressure
excess supply
excess-loss
excess-profits tax
excessive in your praise
excessive interest
excessive irritability
excessive praise
exchange blows
exchange broker
exchange cap
exchange colors
exchange editor
exchange equalization fund
exchange fisticuffs
exchange floor
exchange force
exchange greetings
exchange letters
exchange observations
exchange of blows
exchange of views
exchange opinions
exchange professor
exchange rate
exchange reaction
exchange shots
exchange stabilization fund
exchange student
exchange ticket
exchange transfusion
exchange views
exchangeable base
exchequer bill
exchequer bond
exchequer-chamber
excise tax
excite easily
excite interest
excite notice
excite pity
excite your interest
excited atom
excited imagination
excited state
excited-field speaker
exciter lamp
exciting current
excito-motory
exclaim against
exclamation mark
exclamation point
exclamatory adjective
exclamatory noun
exclude from
exclusion clause
exclusion principle
exclusive disjunction
exclusive jurisdiction
exclusive of
exercise judgment
exercise of memory
exercise of the intellect
exercise self-control
exercise self-restraint
exercise skill
exercise tact
exercise the duties of
exercise the elbow
exercise the functions of
exercise the judgment
exercise the mind
exercise the office of
exercise the right of angry
exercise your option
exert influence
exert pressure
exert strength
exert yourself
exequiae omnes
exh-
exhaust box
exhaust cowl
exhaust draft
exhaust every move
exhaust fan
exhaust gas
exhaust head
exhaust horn
exhaust jacket
exhaust lap
exhaust pipe
exhaust port
exhaust price
exhaust pump
exhaust silencer
exhaust steam
exhaust valve
exhaust velocity
exhaust-suction stroke
exhaustive study
exhibit the form of
exhibit your wares
exhibition game fowl
exhibition hall
exhibition room
exi facias
exile tree
exist in
existential operator
existential philosopher
existential philosophy
existential psychology
existential quantifier
existential theology
existential vacuum
existential woe
existing conditions
existing situation
exit card
exit pallet
exit pupil
exo-
exo-condensation
exocentric compound
exocrine gland
exophthalmic goiter
exophthalmic goitre
exorbitant demand
exorbitant interest
exorbitant price
exotic dancer
expand your consciousness
expanded metal
expanding bullet
expanding economy
expanding universe
expanding universe theory
expansion ammeter
expansion attic
expansion bend
expansion bit
expansion bolt
expansion cam
expansion chamber
expansion coupling
expansion curve
expansion engine
expansion fit
expansion gear
expansion joint
expansion pipe
expansion plate
expansion pulley
expansion ring
expansion sleeve
expansion slide
expert witness
experto credite
expiatory offering
expiatory sacrifice
explain away
explain yourself
explanato-
explanatory remark
explementary angle
explication de texte
explications de texte
explicit function
exploded view
exploding star
exploit your position
exploratory examination
exploratory operation
exploratory ship
explorer tent
exploring element
explosion bomb
explosion engine
explosion insurance
explosion shot
explosion wave
explosion-proof
explosive D
explosive bullet
explosive charge
explosive d
explosive noise
explosive rivet
exponent proposition
exponential distribution
exponential horn
export bar
export credit
export declaration
export point
export reject
export tax
expose itself
expose to infamy
expose to view
expose yourself
expose yourself to
exposed nerve
exposed to
exposed to view
exposed-tube boiler
expository prose
expository scene
expository writing
exposure hazard
exposure index
exposure meter
express a wish for
express an opinion
express belief
express boiler
express buggy
express by words
express car
express delivery
express general agreement
express in words
express intention
express letter
express prejudice
express regret
express rifle
express sympathy for
express the belief
express train
express wagon
express your appreciation
expressed almond oil
expressed desire
expression mark
expression of ideas
expressionistic abstraction
expressionistic abstractionist
expulsion fuse
expunge all doubt
exquisite manners
exsanguination transfusion
exsanguino transfusion
extend an invitation
extend credit
extend out
extend over
extend the right of fellowship
extend the right of friendship
extend throughout
extend to
extend to the side
extend to the sides
extended bond
extended complex plane
extended coverage
extended family
extended order
extended play
extended real number system
extended term insurance
extended-play
extending everywhere
extension bit
extension bolt
extension courses
extension field
extension ladder
extension lathe
extension of time
extension phone
extension rule
extension spring
extension table
extension-gap lathe
extensive knowledge
extensive study
extensor thrust
extenuating circumstances
exter-marriage
exterior angle
exterior ballistics
exterior paint
exteriorized protoplasm
exterminate with
external account
external acoustic meatus
external affairs
external angle
external appearance
external auditory meatus
external brake
external capsule
external carotid
external ear
external evidence
external frustration
external hemorrhoid
external iliac artery
external jugular vein
external loan
external relation
external respiration
external secretion
external-combustion
external-combustion engine
externally-quenched counter
extinction coefficient
extinction meter
extortionate demand
extortionate price
extra added attraction
extra cover
extra cover point
extra current
extra dash
extra dividend
extra edition
extra pay
extra point
extra sec
extra time
extra-
extra-acinous
extra-alimentary
extra-ammotic
extra-analogical
extra-anthropic
extra-articular
extra-artistic
extra-atmospheric
extra-axillar
extra-axillary
extra-base hit
extra-binding
extra-bound
extra-britannic
extra-condensed
extra-dry
extra-european
extra-fare
extra-fine
extra-foraneous
extra-good
extra-hazardous
extra-illustrate
extra-illustration
extra-large
extra-long
extra-mild
extra-parochial
extra-size folio
extra-special
extra-strong
extra-university
extra-urban
extra-uterine pregnancy
extracorporeal dialysis
extract from
extract information
extract printing
extract roots
extract wool
extracted material
extracted matter
extraction of roots
extraction thimble
extraction turbine
extraction wax
extractor fan
extracurricular relations
extracurricular sex
extragalactic nebula
extrajudicial oath
extramarital relations
extramarital sex
extranuclear electrons
extraordinarily like
extraordinary jubilee
extraordinary ray
extraordinary wave
extraordinary worth
extrapolation ionization chamber
extrasensory perception
extraterrestrial visitor
extratropical cyclone
extrauterine pregnancy
extreme clipper
extreme cold
extreme heat
extreme height
extreme innerness
extreme left
extreme left wing
extreme left-wing
extreme left-winger
eye opener
eye patch
eye point
eye rhyme
eye shadow
eye socket
eye speculum
eye splice
eye stub
eye to
eye tube
eye wattle
eye worm
eye-appealing
eye-ball
eye-beam
eye-bedewing
eye-beguiling
eye-bewildering
eye-bewitching
eye-blinking
eye-blurred
eye-bold
eye-bolt
eye-bree
eye-brightening
eye-casting
eye-catcher
eye-catching
eye-charmed
eye-checked
eye-conscious
eye-dazzling
eye-delighting
eye-devouring
eye-distracting
eye-draught
eye-ear plane
eye-ear-nose-throat specialist
eye-earnestly
eye-filling
eye-glass
eye-glutting
eye-lash
eye-lotion
eye-minded
eye-mindedness
eye-offending
eye-opener
eye-opening
eye-overflowing
eye-peep
eye-pit
eye-pleasing
eye-popper
eye-popping
eye-rejoicing
eye-rolling
eye-searing
eye-seen
eye-servant
eye-server
eye-service
eye-shot
eye-sick
eye-splice
eye-spotted
eye-starting
eye-string
eye-tooth
eye-trying
eye-watering
eye-weariness
eye-wink
eye-winking
eye-witness
eye-ball inspection
eye-ball to eyeball
eye-ball-to-eyeball
eye-ball-to-eyeball encounter
eyebrow pencil
eyeglass cloth
eyelet hole
eyelet punch
eyelet-hole
eyepiece micrometer
eyes bigger than the stomach
eyes front
eyes left
eyes only
eyes right
eyes upon
f clef
f layer
f number
f region
f value
f-hole
f-number
f-stop
f1 layer
f2 layer
fa la
fa-la
fable book
fable forger
fable play
fable teller
fable-framing
fabric spring
fabric tire
fabrication tax
fabulous formless darkness
face about
face ague
face angle
face bath
face bone
face bow
face brick
face card
face cards
face chuck
face cleat
face cloth
face cog
face cord
face cover
face cream
face down
face dresser
face dressing
face enamel
face gear
face guard
face hammer
face joint
face lathe
face lifting
face mask
face massage
face milling
face mite
face mold
faceplate coupling
faceplate jaw
facia board
facial angle
facial appearance
facial expression
facial index
facial massage
facial nerve
facial neuralgia
facial tissue
facies Hippocratica
facies-suite
facile princeps
facilis descensus Averno
facility in writing
facility of speech
facing death
facing distance
facing hammer
facing head
facing lathe
facing sand
facing slip
facing tool
facing-point lock
facing-point switch
facsimile broadcasting
facsimile telegraph
fact distribution
fact of experience
fact of life
fact-finding
factor analysis
factor cost
factor group
factor of adhesion
factor of production
factor of safety
factor theorem
factorial stop system
factory belt
factory burden
factory committee
factory cost
factory district
factory farm
factory ledger
fail of your hopes
fail safe
fail someone
fail spot
fail to appear
fail to pull out
fail to remember
fail-safe
failed expectation
failing student
failure of memory
failure of nerve
failure to pay
fain of
fain to
faint heart
faint hope
faint likelihood
faint praise
faint resemblance
faint sound
faint-blue
faint-gleaming
faint-glimmering
faint-green
faint-heard
faint-heart
faint-hued
faint-lined
faint-lipped
faint-rulled
faint-run
faint-sounding
faint-spoken
faint-voiced
faint-warbled
fainting fit
faintly like
faintness of sound
fair and pleasant
fair and square
fair as is the rose in May
fair ball
fair catch
fair copy
fair coquette of Heaven
fair day
fair employment
fair expectation
fair field
fair game
fair green
fair hand
fair housing
fair isle
fair lead
fair list
fair maid
fair name
fair or foul
fair play
fair prospect
fair sex
fair shake
fair stitching
fair to middling
fair trade
fair trader
fair weather
fair whites
fair wind
fair words
fair-born
fair-breasted
fair-browed
fair-cheeked
fair-colored
fair-complexioned
fair-conditioned
fair-copy
fair-days
fair-eyed
fair-faced
fair-favored
fair-featured
fair-fortuned
fair-fronted
fair-haired
fair-haired boy
fair-horned
fair-hued
fair-lead
fair-leader
fair-leading
fair-maid
fair-maned
fair-minded
fair-mindedness
fair-natured
fair-reputed
fair-sized
fair-skinned
fair-sounding
fair-spoken
fair-spokenness
fair-stitch
fair-stitcher
fair-tongued
fair-trade
fair-trade agreement
fair-trade law
fair-trade price
fair-traded
fair-trader
fair-trading
fair-tressed
fair-visaged
fair-water cap
fair-weather
fair-weather cumulus
fair-weather friend
fair-weather sailor
fairbody draft
faire les yeux doux
fairing box
fairly well
fairness doctrine
fairwater cap
fairwater cone
fairwater sleeve
fairy arrow
fairy bell
fairy bird
fairy bluebird
fairy book
fairy butter
fairy candle
fairy cap
fairy circle
fairy club
fairy court
fairy creeper
fairy cup
fairy cycle
fairy fan
fairy finger
fairy flax
fairy gift
fairy glove
fairy godmother
fairy grass
fairy green
fairy haunt
fairy hillock
fairy king
fairy lamp
fairy lily
fairy lint
fairy lore
fairy man
fairy martin
fairy money
fairy pageant
fairy penguin
fairy play
fairy pool
fairy primrose
fairy prion
fairy queen
fairy ring
fairy rose
fairy shrimp
fairy smoke
fairy song
fairy stone
fairy story
fairy swallow
fairy tale
fairy tern
fairy tree
fairy wallflower
fairy wand
fairy water lily
fairy woman
fairy-born
fairy-ring
fairy-ring mushroom
fairy-ring spot
fairy-tale
fait accompli
fêtes vos jeux
faith cure
faith curer
faith healer
faith healing
faith of our fathers
faith-breaking
faith-confirming
faith-curist
faith-infringing
faith-keeping
faithful copy
faithful friend
faithful love
faithful servant
faithful translation
faits accomplis
fake book
fake buyer
fake out
fake up
faker-out
faking box
fal la
fal-lal
fal-lalery
fal-lalish
fal-lalishly
falcon-beaked
falcon-eyed
falcon-gentle
fald silver
fall a cropper
fall a victim to
fall aboard
fall about
fall across
fall afoul of
fall again into
fall all over
fall all over yourself
fall among
fall army worm
fall asleep
fall aster
fall astern
fall at the feet of
fall at your feet
fall away
fall back
fall back on  
fall back to  
fall back to prepared positions  
fall back upon  
fall behind  
fall behindhand  
fall between two stools  
fall block  
fall by the wayside  
fall chronometer  
fall dandelion  
fall dead  
fall down  
fall down before  
fall down dead  
fall down on the job  
fall down on your knees  
fall duck  
fall due  
fall flat  
fall flat as a pancake  
fall flat on your ass  
fall flat on your face  
fall flower  
fall for  
fall foul  
fall foul of  
fall from grace  
fall from the lips  
fall from the mouth  
fall from your high estate  
fall front  
fall grape  
fall guy  
fall head and ears in love  
fall head over heels in love  
fall headlong  
fall herring  
fall in  
fall in a faint  
fall in line  
fall in love  
fall in price  
fall in the way of  
fall in together  
fall in with  
fall into  
fall into a brown study
fall into a habit
fall into decay
fall into despair
fall into disrepute
fall into disuse
fall into error
fall into line
fall into oblivion
fall into order
fall into place
fall into rank
fall into raptures
fall into series
fall into your hands
fall lettuce
fall line
fall meadow rue
fall of Adam
fall of day
fall of man
fall of the cards
fall of the curtain
fall of the dice
fall of the leaf
fall of the year
fall off
fall on
fall on deaf ears
fall on evil days
fall on the ear
fall on your ass
fall on your face
fall on your feet
fall on your knees
fall on your knees before
fall on your knees to
fall out
fall over
fall phonometer
fall poison
fall prostrate
fall rope
fall rose
fall senseless
fall short
fall shy
fall silent
fall snipe
false dice
false doctrine
false echoes
false economy
false face
false foxglove
false friend
false front
false fruit
false god
false goldenrod
false grass
false guinea grass
false hair
false hellebore
false horizon
false image
false imprisonment
false ipecac
false keel
false labor
false light
false lily of the valley
false loosestrife
false map turtle
false memory
false mildew
false modesty
false money
false move
false music
false name
false nettle
false oat
false pains
false piety
false pile
false position
false pretences
false pretense
false pretenses
false pretension
false proscenium
false rafter
false reasoning
false redtop
false relation
false representation
false rib
false ribs
false rice
false ridgepole
false saffron
false shade line
false show
false step
false sunflower
false swearing
false teacher
false teeth
false title
false topaz
false vampire
false vocal cord
false vocal cords
false wheat
false witness
false-bedded
false-boding
false-bottomed
false-card
false-dealing
false-derived
false-eyed
false-face
false-face society
false-faced
false-fingered
false-fronted
false-gotten
false-heart
false-hearted
false-heartedly
false-heartedness
false-mermaid family
false-nerved
false-packed
false-plighted
false-principled
false-purchased
false-spoken
false-sworn
false-tongued
false-visored
false-written
falsehood-free
fan pulley
fan pump
fan roof
fan scale
fan shell
fan system
fan tan
fan the embers
fan the fire
fan the flame
fan tracery
fan training
fan tree
fan truss
fan vault
fan vaulting
fan wheel
fan window
fan worm
fan-back chair
fan-bearing
fan-crested
fan-fashion
fan-jet
fan-jet engine
fan-leaved
fan-light
fan-nerved
fan-pleated
fan-shape
fan-shaped
fan-tail
fan-tailed
fan-tailed darter
fan-tan
fan-veined
fan-wing fly
fancied up
fancy Dan
fancy ball
fancy clouds where no clouds be
fancy dive
fancy diver
fancy diving
fancy dog
fancy dress
fancy dress ball
fancy geranium
fancy goods
fancy house
fancy lady
fancy man
fancy price
fancy talk
fancy that
fancy trimmer
fancy up
fancy woman
fancy work
fancy-baffled
fancy-blest
fancy-born
fancy-borne
fancy-bred
fancy-built
fancy-caught
fancy-dress ball
fancy-driven
fancy-fed
fancy-feeding
fancy-formed
fancy-framed
fancy-free
fancy-guided
fancy-led
fancy-loose
fancy-raised
fancy-shaped
fancy-stirring
fancy-struck
fancy-stung
fancy-weaving
fancy-woven
fancy-wrought
fandango bird
fang bolt
fanleaf palm
fanning machine
fanning mill
fanning out
fanny adams
fantail joint
fantail stern
fantasize about
fantastic notion
far afield
far ahead
far and away
far and near
far and wide
far away
far be it from me
far cry
far from it
far goer
far gone
far gone on
far horizon
far off
far on
far other
far out
far past
far piece
far point
far seer
far traveler
far-about
far-advanced
far-aloft
far-away
far-back
far-between
far-borne
far-branching
far-called
far-come
far-cost
far-darting
far-discovered
far-distant
far-down
far-downer
far-driven
far-eastern
far-embracing
far-extended
far-extending
far-famed
far-fet
far-fetch
far-fetched
far-flashing
far-flown
farthest off
farthest out
farthest outpost
farthing dip
farthingale chair
farting around
fascia board
fascinated attention
fascine choker
fashion book
fashion designer
fashion gray
fashion house
fashion piece
fashion plate
fashion plate stem
fashion show
fashion writer
fashion-fancying
fashion-fettered
fashion-following
fashion-led
fashion-monger
fashion-setting
fashionable society
fashioning needle
fast and loose
fast asleep
fast boat
fast break
fast by
fast day
fast deal
fast dye
fast food
fast freight line
fast friend
fast friendship
fast groove
fast motion
fast neutron
fast one
fast pace
fast pile
fast rate
fast reactor
fast spiral
fast talk
fast telegram
fast time
fast worker
fast-anchored
fast-bound
fast-breaking
fast-breeder reactor
fast-cleaving
fast-darkening
fast-dye
fast-dyed
fast-fading
fast-falling
fast-feeding
fast-fettered
fast-fleeting
fast-flowing
fast-food chain
fast-footed
fast-gathering
fast-grounded
fast-growing
fast-handed
fast-joint hinge
fast-knit
fast-mass
fast-moving
fast-plighted
fast-rooted
fast-rootedness
fast-running
fast-sailing
fast-settled
fast-stepping
fast-talk
fast-tied
fasten a quarrel on
fasten down
fasten itself on the mind
fasten on
fasten onto
fasten the eyes upon
fasten up
fasten upon
fasten yourself upon
fastening-penny
fastens-een
faster than sound
fastidious person
fat acid
fat as a fool
fat as a hog
fat as a pig
fat as a pork hog
fat as a porpoise
fat as a quail
fat as bacon
fat as brawn
fat as butter
fat back
fat box
fat cat
fat cell
fat chance
fat corpuscle
fat depot
fat gland
fat granule
fat heart
fat hen
fat liquor
fat man
fat mouse
fat of the land
fat oil
fat part
fat pork
fat purse
fat series
fat stock
fat-assed
fat-backed
fat-barked
fat-bellied
fat-bodied
fat-cheeked
fat-choy
fat-edged
fat-engendering
fat-faced
fat-faced type
fat-fed
fat-fleshed
fat-free
fat-head
fat-hen
fat-hipped
fat-legged
fat-necrosis
fat-paunched
fat-reducing
fat-rumped sheep
fat-shunning
fat-soluble
fat-tailed
fat-tailed sheep
fat-witted
fata morgana
fatal accident
fatal blow
fatal hour
fatal-boding
fatal-looking
fatal-plotted
fatal-seeming
fate line
fate worse than death
fate-bowed
fate-denouncing
fate-dogged
fate-environed
fate-foretelling
fate-furrowed
fate-menaced
fate-scomning
fate-stricken
fateful moment
fathead minnow
father abbot
father christmas
father complex
father confessor
father family
father figure
father fixation
father image
father in Christ
father jesuit
father lasher
father longlegs
father love
father of the chapel
father right
father rule
father sib
father superior
father surrogate
father symbol
father upon
father's day
father-confessor
father-in-law
father-lasher
father-long-legs
fathers-in-law
fathom-deep
fatigue call
fatigue cap
fatigue clothes
fatigue curve
fatigue disease
fatigue dress
fatigue duty
fatigue life
fatigue limit
fatigue party
fatigue ratio
fatten on
fatten up
fatten upon
fattening grass
fatti maschii
fatty acid
fatty degeneration
fatty heart
fatty oil
fatty tumor
faucet joint
fault bar
fault block
fault breccia
fault conglomerate
fault current
fault lamp
fault line
fault localizer
fault plane
fault rock
fault rubble
fault scarp
fault surface
fault terrace
fault vent
fault-find
fault-finding
fault-line scarp
fault-slip
faulty comparison
faulty coordination
faulty eyesight
faulty grammar
faulty punctuation
faulty reference
faulty subordination
faulty syntax
faun-colored
faunus butterfly
fause-house
faute de mieux
faux jour
faux pas
faux rondelette
faux-bourdon
faux-na
fava bean
favor with
favorable attention
favorable disposition
favorable opportunity
favorable prospect
favorable regard
favorable vote
favorable wind
favorably disposed
favorably impressed with
favorably inclined
favoring wind
favorite of the gods
favorite son
favors of office
fawn brown
fawn lily
fawn upon
fawn-color
fawn-colored
fawn-colour
faying surface
fear God
fear and trembling
fear holding on a minute longer
fear into the heart of
fear of God
fear that has said its prayers
fear-babe
fear-broken
fear-created
fear-depressed
fear-free
fear-froze
fear-inspiring
fear-palsied
fear-pursued
fear-shaken
fear-stricken
fear-struck
fear-tangled
fear-taught
fearsome-looking
feast and famine
feast day
feast of the soul
feast on
feast upon
feast-or-famine
feather alum
feather an oar
feather ball
feather banding
feather beater
feather bed
feather bleacher
feather boa
feather boarding
feather bolster
feather bonnet
feather brush
feather cleanser
feather cloth
feather columbine
feather crotch
feather curler
feather dresser
feather drier
feather driver
feather duster
feather dyer
feather fan
feather fern
feather finisher
feather geranium
feather grass
feather hyacinth
feather in your cap
feather joint
feather key
feather mail
feather maker
feather making
feather mattress
feather merchant
feather mosaic
feather moss
feather ore
feather out
feather palm
feather part
feather picker
feather pillow
feather pink
feather plume
feather poke
feather renovator
feather scrape
feather sewer
feather shot
feather spring
feather staccato
feather star
feather steamer
feather tick
feather tip
feather tract
feather tree
feather trimmer
feather type
feather valve
feather worm
feather your nest
feather'd rain
feather-bed
feather-covered
feather-duster worm
feather-edge
feather-fleece
feather-footed
feather-head
feather-heeled
feather-leaved
feather-legged
feather-stitch
feather-tail glider
feather-tongue
feather-veined
feather-weight
feather-weighted
feather-work
featherbed rule
feathered songster
featheredge file
feathering float
feathering paddle wheel
feathering screw
featherleaf cedar
feathertail glider
feathertop grass
feature attraction
feature editor
feature story
feature-length
feature-writing
febri-
febrifuge plant
fed to the gills
fed to the teeth
fed up
fed-up
fed-upedness
fed-upness
federal agent
federal assembly
federal district
federal government
federal home loan bank
federal intermediate credit bank
federal land bank
federal medicine
federal prison
federal reserve bank
federal tax
federated church
fee farm
fee farmer
fee fief
fee grief
fee position
fee simple
fee simple absolute
fee simple conditional
fee simple defeasible
fee simple determinable
fee splitting
fee tail
fee-farm
fee-faw-fum
fee-simple
fee-splitter
fee-splitting
fee-tail
feeble person
feeble-bodied
feeble-eyed
feeble-lunged
feeble-minded
feeble-mindedly
feeble-mindedness
feeble-voiced
feeble-winged
feeble-wit
feed bag
feed boiler
feed case
feed cooker
feed crusher
feed cutter
feed gear
feed grinder
feed guide
feed hand
feed heater
feed heating
feed hopper
feed line
feed lot
feed mill
feed mixer
feed motion
feed on
feed packer
feed pipe
feed plate
feed pump
feed rack
feed reel
feed rod
feed roll
feed screw
feed stable
feed store
feed tank
feed the fire
feed the fish
feed trough
feed truck
feed tube
feed upon
feed valve
feed water
feed wheat
feed wheel
feed wire
feed-and-reflector unit
feed-back coil
feed-water heater
feedback amplifier
feedback circuit
feedback conductance
feedback control
feedback inhibition
feedback loop
feedback pulses
feedback signals
feedback system engineer
feedback system engineering
feeder airline
feeder cable
feeder ear
feeder line
feeder plant
feeder reactor
feeder road
feeder-in
feeder-up
feeding bottle
feeding cup
feeding head
feeding point
feeding rod
feeding root
feeding standard
feeding market
feel about it
feel acutely
feel anxious
feel around
feel ashamed of yourself
feel at home
feel at liberty
feel awful
feel better about it
feel cheap
feel confident
feel contempt for
feel creepy
feel deeply
feel disgust
feel easy
feel emotion
feel fine
feel for
feel free
feel funny
feel good
feel happy
feel hungry
feel hurt
feel ill
feel in your bones
feel in your breast
feel in your guts
feel in your viscera
feel intuitively
feel like
feel like a million
feel like the walking dead
feel like yourself
feel no obligation
feel of
feel out
feel pain
feel relief
feel resentment
feel small
feel something terrible
feel sore
feel sorrow for
feel sorry for
feel superior to
feel sure
feel the pangs
feel the pulse
feel the want of
feel under an obligation
feel under the weather
feel unsure
feel up
feel up to
feel with
feel with the fingertips
feel your ground
feel your oats
feel your way
feel yourself
feel yourself again
feeler gauge
feeling awful
feeling cold
feeling evil
feeling faint
feeling for
feeling for language
feeling for words
feeling in your bones
feeling low
feeling of identity
feeling of kinship
feeling of relief
feeling out
feeling something terrible
feeling the pinch
feeling tone
feeling your oats
feery-fary
feet first
feet foremost
feet of clay
feg Dialect
feigned belief
feline agranulocytosis
feline distemper
feline enteritis
fell-fare
fell-field
fell-land
felling wedge
fellow actor
fellow american
fellow apprentice
fellow being
fellow boarder
fellow captive
fellow caucasian
fellow christian
fellow citizen
fellow collegian
fellow commoner
fellow communicant
fellow companion
fellow conspirator
fellow convict
fellow countryman
fellow craftsman
fellow creature
fellow criminal
fellow delegate
fellow disciple
fellow emigrant
fellow employee
fellow exile
fellow explorer
fellow feeling
fellow feeling in suffering
fellow guest
fellow heir
fellow helper
fellow idler
fellow immigrant
fellow laborer
fellow listener
fellow lodger
fellow man
fellow member
fellow mortal
fellow passenger
fellow patriot
fellow pedestrian
fellow plotter
fellow prisoner
fellow pupil
fellow servant
fellow sinner
fellow soldier
fellow student
fellow sufferer
fellow townsman
fellow traveler
fellow traveller
fellow tribesman
fellow victim
fellow villager
fellow worker
fellow workman
fellow worshiper
fellow-commoner
fellow-creature
fellow-feel
fellow-feeling
fellow-heir
fellow-man
fellow-men
fellow-servant rule
fellow-soldier
fellowship porter
felo de se
felo-de-se
felon grass
felon herb
felones-de-se
felony murder
felos-de-se
felsite-porphyry
felt conditioner
felt cutter
felt dauber
felt drier
felt fern
felt former
felt fuller
felt grain
felt hat
felt knife
felt maker
felt oiler
felt packer
felt roller
felt roofer
felt roofing
felt rust
felt sewer
felt side
felt washer
felt weaver
felt worker
fennel-leaved
fer-de-lance
fer-de-moline
ferae naturae
feriae jova
ferling-noble
fermentation alcohol
fermentation gum
fermentation lock
fermentation tube
fern ally
fern asparagus
fern ball
fern bracken
fern bush
fern clubmoss
fern covert
fern cycad
fern green
fern hook
fern meadowbur
fern moss
fern owl
fern palm
fern preserver
fern scale
fern scrub
fern seed
fern tree
fern weevil
fern-clad
fern-crowned
fern-fringed
fern-leaved
fern-owl
fern-seed
fern-thatched
ferret badger
ferret out
ferret-badger
ferret-eyed
ferretto zone
ferri-
ferric ammonium oxalate
ferric chloride
ferric dimethyldithiocarbamate
ferric oxide
ferric sodium oxalate
ferricyanic acid
ferris wheel
ferrite-rod aerial
ferro-
ferro-carbon-titanium
ferro-concrete
ferro-uranium
ferrocyanic acid
ferroso-
ferrotype tin
ferrous oxide
ferrous sulfate
ferrous sulphate
ferruginous duck
ferry bell
ferry bridge
ferry captain
ferry car
ferry craft
ferry incline
ferry master
ferry pole
ferry rack
ferry rocket
ferry slip
ferry steamer
ferry ticket
ferry warden
ferry-boat
fertile imagination
fertile material
fertile mind
fertile-flowered
fertile-fresh
fertile-headed
fertility cult
fertility god
fertility goddess
fertility spirit
fertility symbol
fertilization cone
fertilization tube
fertilizer ammonia
fertilizer chemical
fertilizer crusher
fertilizer distributor
fertilizer divider
fertilizer drill
fever-ridden
fever-shaken
fever-sick
fever-smitten
fever-stricken
fever-troubled
fever-warm
fever-weakened
few and far between
few, a
few-acred
few-celled
few-flowered
few-flowered oat grass
few-fruitied
few-seeded
few-toothed
fiat justitia ruat caelum
fiat lux
fiat money
fibble-fable
fiber boilerman
fiber bundle
fiber carder
fiber combert
fiber crimper
fiber drafter
fiber dresser
fiber filler
fiber glass
fiber graphite
fiber hackler
fiber mixer
fiber optics
fiber plant
fiber plaster
fiber saturation point
fiber sorter
fiber stitch
fiber turner
fiber wax
fiber-faced
fiber-glass boat
fiber-shaped
fible-fable
fibr-
fibre optics
fibrin ferment
fibrino-
fibrinous pneumonia
fibro-
fibro-osteoma
fibroid heart
fibroid inflammation
fibroid phthisis
fibrous grass
fibrous-coated
fibrous-rooted
fickle Chance
fickle finger of fate
fickle-fancied
fickle-headed
fickle-minded
fickle-mindedly
fickle-mindedness
fiction of the mind
fictional form
fictitious name
fictitious person
fid hole
fiddle away
fiddle back
fiddle beetle
fiddle block
fiddle bow
fiddle brace back
fiddle case
fiddle dock
fiddle flower
fiddle head
fiddle maker
fiddle making
fiddle pattern
fiddle with
fiddle-back
fiddle-brained
fiddle-de-dee
fiddle-faced
fiddle-faddler
fiddle-faddling
fiddle-flanked
fiddle-head
fiddle-lipped
fiddle-neck
field corn
field cress
field cricket
field crop
field crowfoot
field current
field cypress
field daisy
field day
field dodder
field dog
field driver
field duck
field emission
field event
field fortification
field frame
field garlic
field glass
field glasses
field goal
field grade
field gray
field gromwell
field guidance
field guide
field gun
field hand
field hockey
field holler
field horsetail
field hospital
field house
field ice
field intensity
field ion microscope
field jacket
field judge
field kale
field kitchen
field lark
field larkspur
field lens
field lily
field line
field madder
field magnet
field maneuver
field marigold
field mark
field marshall
field martin
field master
field meeting
field milkwort
field mint
field mouse
field mushroom
field music
field nigelweed
field night
field oak
field of battle
field of blood
field of bloodshed
field of force
field of fractions
field of honor
field of honour
field of inquiry
field of quotients
field of slaughter
field of study
field of view
field of vision
field officer
field order
field park
field pea
field penny-cress
field pine
field plotter
field plover
field poa grass
field poppy
field preaching
field probable error
field range
field ration
field rations
field rivet
field rush
field salad
field scabious
field scorpion grass
field service
field shoes
field soapwort
field soapwort
field soapwort
field sorrel
field sorrel
field southernwood
field spaniel
field sparrow
field speedwell
field spider
field spirit
field spool
field sports
field staff
field station
field stop
field strength
field system
field telegraph
field telephone
field tent
field theory
field thistle
field thyme
field tiller
field titling
field train
field training
field trial
field trip
field vole
field winding
field work
field wormwood
field woundwort
field yam-root
field-bed
field-book
field-control converter
field-controlled
field-convecticle
field-conventicler
field-cornet
field-cornetcy
field-day
field-discharge switch
field-effect transistor
field-emission X-ray tube
field-glass
field-holler
field-marshmal
field-meeting
field-strength meter
field-strip
field-stripped
field-stripping
field-stript
field-transfer switch
field-work
fielded panel
felder's choice
fielding average
fields of Aalu
fiend from hell
fierce temper
fierce-eyed
fierce-faced
fierce-looking
fierce-minded
fierce-natured
fieri facias
fiery cross
fiery furnace
fiery imagination
fiery ordeal
fiery temper
fiery-bright
fiery-cross
fiery-crowned
fiery-eyed
fiery-faced
fiery-fierce
fiery-flaming
fiery-footed
fiery-helmed
fiery-hoofed
fiery-hot
fiery-kindled
fiery-liquid
fiery-mouthed
fiery-pointed
fiery-rash
fiery-seeming
fiery-shining
fiery-spangled
fiery-sparkling
fiery-spirited
fiery-sworded
fiery-tempered
fiery-tressed
fiery-twinkling
fiery-veined
fiery-visaged
fiery-wheeled
fiery-winged
fiesta de toros
fiesta flower
fiesta taurina
fiestas de toros
fiestas taurinas
fife rail
fife-rail
fifteen-pounder
fifth column
fifth columnist
fifth monarchy
fifth position
fifth venereal disease
fifth wheel
fifth-column
fifth-column activity
fifty cents
fifty percent
fifty-acre
fifty-dollar bill
fifty-eight
fifty-eighth
fifty-fifth
fifty-fifty
fifty-first
fifty-five
fifty-four
fifty-fourth
fifty-mile
fifty-nine
fifty-ninth
fifty-one
fifty-second
fifty-seven
fifty-seventh
fifty-six
fifty-sixth
fifty-third
fifty-three
fifty-two
fifty-year
fifty-fifty
fig banana
fig bar
fig bean
fig dust
fig faun
fig finch
fig insect
fig leaf
fig marigold
fig moth
fig out
fig parrot
fig paste
fig soap
fig up
fig wart
fig wasp
fig wax
fig-bird
fig-leaf
fig-shaped
fig-tree
fig-tree wax
fig-wort
figaro sauce
fige de froid
fight a delaying action
fight a duel
fight a holding action
fight against
fight fire with fire
fight for
fight hand-to-hand
fight it out
fight like devils
fight off
fight over
fight shy
fight shy of
fight the good fight
fight the good fight for
fight to the death
fight to the last ditch
fight tooth and nail
fight with
fight with windmills
fight your battles over again
fight your way
fight-off
fighter pilot
fighter-bomber
fighter-interceptor
fighting chair
fighting chance
fighting cock
fighting fish
fighting force
fighting machine
fighting mad
fighting man
fighting ship
fighting top
fighting weight
fights, the
figment of the imagination
figurate number
figurative language
figuratively speaking
figure caster
figure dance
figure dancer
figure eight
figure in
figure of comparison
figure of eight
figure of fun
figure of speech
figure on
figure out
figure skate
figure skater
figure skates
figure skating
figure stone
figure to yourself
figure up
figure work
figure-caster
figure-flinger
figure-four trap
figure-ground
figure-head
figure-of-eight knot
figured bass
figured glass
figured style
figures of
figures of speech
figuring in the mind
figwort family
filament battery
filament lamp
filamentary transistor
filbert brown
filbert mouse
file a claim
file and forget
file away
file band
file bottom
file card
file cleaner
file clerk
file closer
file cutter
file dresser
file dust
file finishing
file fire
file firing
file folder
file for
file forger
file grinder
file leader
file maker
file off
file setter
file sharpener
file signal
file snake
file suit for divorce
file tempering
file-fish
file-hard
file-soft
filet lace
filet mignon
filets mignons
fili-
filial generation
filial love
filiate to
filing box
filing card
filing case
filing clerk
filing system
filius nullius
filius populi
filix-mas
fill an office
fill and stand on
fill away
fill cap
fill horse
fill in
fill in for
fill out
fill the air
fill the bill
fill the measure of
fill the mind
fill time
fill to overflowing
fill to the brim
fill up
fill with doubt
fill you in
fill your pockets
fill your shoes
fill-belly
fill-dike
fill-in
fill-paunch
fill-space
fill-up
fille d'honneur
fille de chambre
fille de joie
filled gold
filled milk
filled out
filled to overflowing
filled-system thermometer
filler cap
filler vase
filler wall
filler-in
filler-out
filler-up
filles d'honneur
filles de chambre
filles de joie
fillet cross
fillet head
fillet steak
fillet weld
filletster plane
filli-
filling knitting
filling station
fillister head
fillister plane
fillister screwhead
filly tail
filly-folly
film base
film camera
film caption
film case
film clip
film color
film cutter
film data
film developer
film editor
film evaporator
film exposure
film fern
film gate
film gatefilm gauge
film joiner
film library
film maker
film pack
film paper
film pickup
film play
film printer
film production
film rating
film recorder
film repairer
film sizing
film speed
film star
film strip
film studio
film window
film-eyed
film-free
film-struck
filmy fern
filmy-eyed
filo-
filter bed
filter candle
filter center
filter factor
filter flask
filter in
filter leaf
filter out
filter paper
filter passer
filter plate
filter press
filter pump
filter tip
filter-passing
filter-tipped
filterable virus
filtering flask
filth disease
filth ferment
filth receptacle
filth-borne
filth-created
filth-fed
filth-sodden
filthy humor
filthy language
filthy lucre
filthy person
filthy place
filthy rich
filthy weed
filthy-handed
filum aquae
fin boom
fin colter
fin cutter
fin de siecle
fin fold
fin keel
fin ray
fin whale
fin-backed
fin-fold theory
fin-footed
fin-shaped
fin-spined
fin-stabilized rocket
fin-tailed
fin-toed
fin-winged
final cause
final draft
final examination
final extremity
final hour
final instructions
final lot
final notice
final offer
final proposal
final result
final solution
final stroke
final summons
final touch
final twitch
final warning
final whistle
final words
finance bill
finance capitalism
finance capitalist
finance company
finance corporation
financial assistance
financial backing
financial commitment
financial condition
financial credit
financial crisis
financial district
financial expert
financial interests
financial officer
financial remuneration
financial support
financial year
finback whale
finch falcon
finch-backed
find a clue to
find a husband for
find a loophole
find a mate for
find a phrase for
find a way
find a wife for
find against
find an indictment against
find an opening
find credence
find fault
find favor
find favor with
find for
find guilty
find hard to believe
find herself
find it hard going
find means
find out
find out about
find refuge
find sanctuary
find the answer
find the key of
find the key to
find the solution
find time
find vent
find words to express
find your
find your account in
find your advantage in
find your heart
find your position
find your tongue
find your way into
find yourself
find yourself at
finder switch
finder telescope
finder-point punch
finding list
finding out
finding store
finding-out
fine Italian hand
fine and dandy
fine art
fine art of living
fine arts
fine chemicals
fine distinction
fine feather
fine fettle
fine flavor
fine gentleman
fine hand
fine how-do-you-do
fine kettle of fish
fine lady
fine linen
fine nail
fine palate
fine point
fine print
fine print at the bottom
fine sewer
fine shape
fine structure
fine talk
fine texture
fine whack
fine writer
fine writing
fine-appearing
fine-ax
fine-bore
fine-bred
fine-count
fine-cut
fine-dividing
fine-draw
fine-drawer
fine-drawing
fine-drawn
fine-dressed
fine-drew
fine-eyed
fine-feathered
fine-featured
fine-feeling
fine-fleeced
fine-furred
fine-graded
fine-grain
fine-grained
fine-grainedness
fine-haired
fine-headed
fine-leaved
fine-leaved heath
fine-looking
fine-mouthed
fine-nosed
fine-set
fine-sifted
fine-skinned
fine-spirited
fine-spoken
fine-spun
fine-still
fine-tapering
fine-threaded
fine-timbered
fine-toned
fine-tongued
fine-tooth
fine-tooth comb
fine-tooth-comb
fine-toothcomb
fine-toothed
fine-toothed comb
fine-tricked
fine-wrought
fineness of grain
fineness ratio
finer feelings
finery furnace
finery hearth
fines herbes
finger alphabet
finger bar
finger board
finger bowl
finger brush
finger clamp
finger coral
finger cutting
finger cymbals
finger exercise
finger fern
finger food
finger fracture
finger gate
finger gauge
finger grass
finger grip
finger guard
finger herb
finger hole
finger joint
finger lake
finger lime
finger man
finger mark
finger nut
finger of death
finger or two
finger paint
finger painter
finger painting
finger patch
finger pillory
finger plate
finger post
finger reading
finger ring
finger shell
finger sponge
finger steel
finger tight
finger wave
finger with
finger's breadth
finger's width
finger-ache
finger-and-toe
finger-comb
finger-comb grass
finger-cone
finger-cone pine
finger-cut
finger-end
finger-foxed
finger-marked
finger-paint
finger-pointing
finger-post
finger-shaped
finger-stall
finger-stone
fingers all thumbs
fingertip caress
fingertip coat
fingle-fangle
finis coronat opus
finish in front
finish off
finish up
finish-bore
finish-cut
finish-form
finish-grind
finish-machine
finish-mill
finish-plane
finish-ream
finish-shape
finish-stock
finish-stock change
finish-turn
finished up
finished version
finisher card
finishing change
finishing chisel
finishing nail
finishing school
finishing stove
finishing stroke
finishing tap
finishing touch
finite intersection property
finite number
finite verb
finite-dimensional
finitely additive function
fink out
finnan haddie
finnan haddock
finno-ugric
fippenny bit
fippenny piece
fipple flute
fipple pipe
fire bill
fire blast
fire blight
fire block
fire blower
fire bomb
fire boss
fire break
fire breather
fire bridge
fire brigade
fire bucket
fire buff
fire builder
fire bush
fire cage
fire chamber
fire cherry
fire chief
fire chum
fire clay
fire cock
fire command
fire commander
fire company
fire control
fire cross
fire curtain
fire cut
fire cutoff
fire dance
fire department
fire direction
fire division wall
fire door
fire drill
fire drilling
fire effect
fire engine
fire escape
fire exit
fire extinguisher
fire fan
fire festival
fire fiend
fire fight
fire fighter
fire fighting
fire police
fire polishing
fire pot
fire power
fire prevention
fire quencher
fire raft
fire raid
fire raiser
fire red
fire red toner
fire reel
fire resistance
fire retardant
fire retarder
fire risk
fire room
fire root
fire salamander
fire sale
fire salvage
fire sand
fire saw
fire scarlet
fire screen
fire set
fire setting
fire ship
fire shovel
fire shutter
fire slash
fire spirit
fire station
fire step
fire stick
fire stink
fire stop
fire storm
fire support
fire swab
fire tactics
fire temple
fire test
fire the blood
fire thorn
fire tongs
fire tower
fire tree
fire trench
fire tube
fire underwriter
fire up
fire upon
fire walk
fire walking
fire wall
fire warden
fire watcher
fire weather
fire window
fire worker
fire worship
fire worshiper
fire your imagination
fire-
fire-and-brimstone
fire-angry
fire-arm
fire-backed pheasant
fire-ball
fire-baptized
fire-bearing
fire-bellied
fire-bird
fire-boot
fire-born
fire-box
fire-brand
fire-breathing
fire-breeding
fire-burning
fire-burnt
fire-chaser
fire-clad
fire-cracked
fire-crested
fire-cross
fire-crowned
fire-cure
fire-cured
fire-curing
fire-damp
fire-darting
fire-detecting
fire-drake
fire-eater
fire-eating
fire-endurance
fire-endurance test
fire-engine
fire-exit bolt
fire-extinguisher
fire-extinguishing
fire-eyed
fire-fang
fire-flaught
fire-float
fire-flowing
fire-fly
fire-foaming
fire-footed
fire-free
fire-gilded
fire-god
fire-hardened
fire-hoofed
fire-hook
fire-hot
fire-hunt
fire-hunting
fire-iron
fire-leaves
fire-light
fire-lighted
fire-lilies
fire-lily
fire-lipped
fire-marked
fire-master
fire-mouthed
fire-new
fire-pan
fire-pitted
fire-place
fire-plow
fire-polish
fire-pot
fire-proof
fire-protection engineer
fire-quenching
fire-raiser
fire-raising
fire-red
fire-resistant
fire-resistant material
fire-resisting
fire-resisting material
fire-resistive
fire-resistive material
fire-retardant
fire-retardant material
fire-retarded
fire-ring
fire-robed
fire-safeness
fire-scarred
fire-scathed
fire-screen
fire-seamed
fire-ship
fire-souled
fire-spirited
fire-spitting
fire-sprinkling
fire-stone
fire-strong
fire-swart
fire-swift
fire-tailed
fire-tight
fire-tube boiler
fire-warmed
fire-wheeled
fire-winged
fire-work
fire-worker
fireburn bush
firecracker flower
fireless cooker
fireless heater
fireplace fitter
fireproof material
fireworks rocket
firing area
firing battery
firing charge
firing data
firing glass
firing iron
firing line
firing order
firing party
firing pin
firing ring
firing squad
firing step
firing table
firing test
firing tread
firing tube
firm as Gibraltar
firm belief
firm friendship
firm ground
firm hand
firm hold
firm price
firm resolve
firm up
firm-based
firm-braced
firm-chinned
firm-compacted
firm-footed
firm-framed
firm-jawed
firm-joint
firm-minded
firm-nerved
firm-paced
firm-planted
firm-rooted
firm-set
firm-sinewed
firm-textured
firm-written
firmament blue
firmer chisel
firmer gouge
firmly established
firmness of mind
firmness of spirit
firred plywood
first aid
first among equals
first and foremost
first and last
first appearance
first approach
first arrival
first axiom of countability
first base
first baseman
first blush
first blush of the morning
first brightening
first category
first cause
first choice
first class
first comer
first cousin
first crack
first crack out of the box
first derivative
first derived curve
first division
first draft
first edition
first estate
first family
first floor
first flush of the morning
first fruits
first glance
first hand
first harmonic
first impression
first inning
first intention
first lady
first lap
first law of motion
first law of thermodynamics
first lieutenant
first light
first line
first line of battle
first line of defense
first main track
first mate
first mortgage
first mortgage bond
first motion
first move
first name
first night
first of all
first-class mail
first-conceived
first-created
first-day
first-day cover
first-degree burn
first-done
first-endavoring
first-expressed
first-famed
first-floor
first-foot
first-footer
first-formed
first-found
first-framed
first-fruit
first-gendered
first-generation
first-gotten
first-grown
first-hand
first-in
first-in first-out
first-invented
first-known
first-line
first-loved
first-made
first-mentioned
first-mining
first-mortgage
first-mortgage bond
first-name
first-named
first-night
first-nighter
first-order reaction
first-out
first-page
first-past-the-post
first-preferred
first-rate
first-rately
first-rateness
first-rater
first-ripe
first-run
first-seen
first-strike capacity
first-string
first-told
first-written
fiscal agent
fiscal period
fiscal year
fise dog
fish and chips
fish ball
fish beam
fish begonia
fish belly
fish blanket
fish boom
fish bowl
fish breeder
fish breeding
fish cake
fish carrier
fish carver
fish checker
fish coop
fish crane
fish crow
fish culture
fish davit
fish day
fish dinner
fish doctor
fish duck
fish eagle
fish eggs
fish essence
fish eye
fish factory
fish flake
fish flour
fish fly
fish for
fish for compliments
fish fork
fish fry
fish fungus
fish geranium
fish globe
fish glue
fish grass
fish guano
fish hatcher
fish hatchery
fish hawk
fish in troubled waters
fish inspector
fish joint
fish kettle
fish killer
fish knife
fish ladder
fish lead
fish louse
fish manure
fish maw
fish meal
fish mint
fish mold
fish moth
fish net
fish oil
fish or cut bait
fish out
fish out of water
fish owl
fish pearl
fish pendant
fish plank
fish poison
fish pole
fish pomace
fish salt
fish scale
fish scrap
fish slice
fish soup
fish splice
fish stick
fish story
fish tackle
fish tail
fish tape
fish tapeworm
fish to fry
fish tongue
fish torpedo
fish up
fish warden
fish wheel
fish wire
fish young
fish-and-chip shop
fish-and-chips
fish-backed
fish-bellied
fish-belly rail
fish-blooded
fish-canning
fish-cultural
fish-culturist
fish-day
fish-eating
fish-eating bird
fish-eye lens
fish-eyed
fish-fag
fish-fed
fish-feeding
fish-flaking
fish-gig
fish-god
fish-goddess
fish-hatching
fish-hook
fish-producing
fish-scale
fish-scaling
fish-selling
fish-shaped
fish-skin
fish-slafting
fish-tail
fishbone thistle
fishbone tree
fisher-cat
fisherman's bend
fisherman's reef
fisherman's ring
fisherman's staysail
fisherman's sweater
fishery salt
fisheye lens
fishhook cactus
fishhook money
fishing banks
fishing boat
fishing breeze
fishing cat
fishing club
fishing craft
fishing dory
fishing duck
fishing expedition
fishing fleet
fishing float
fishing gear
fishing ground
fishing hook
fishing license
fishing line
fishing net
fishing pole
fishing question
fishing reel
fishing rod
fishing schooner
fishing smack
fishing spear
fishing tackle
fishing vessel
fishing worm
fishskin disease
fishtail bit
fishtail burner
fishtail cutter
fishtail down
fishtail drapery
fishtail landing
fishtail palm
fishtail wind
fishtail-shaped
fishy transaction
fissi-
fission alga
fission bomb
fission fungus
fission particles
fission products
fission reaction
fission reactor
fission-fusion bomb
fissionable material
fissure of Rolando
fissure of Sylvius
fissure vein
fist hatchet
fist law
fist mate
fistulous withers
fit and fine
fit as a fiddle
fit for
fit for a gourmet
fit for a king
fit for sea
fit for society
fit for the dust hole
fit for the junk yard
fit for the wastepaper basket
fit in
fit of abstraction
fit of anger
fit of crying
fit of laughter
fit of temper
fit out
fit plant
fit strip
fit the pattern
fit to be tied
fit to bust
fit to kill
fit to live in
fit together
fit up
fitchy at the foot
fitful sleep
fitness for society
fits and starts
fitted coat
fitted for
fitted out
fitted sheet
fittie-lan
fitting change
fitting out
fitting room
fitting strip
five C's
five W's
five all
five and twenty
five back
five bucks
five cents
five centuries
five dollars
five hundred
five hundred dollars
five hundred rummy
five percenter
five rayed
five senses
five spice powder
five stones
five-acre
five-act
five-and-dime
five-and-ten
five-and-ten-cent store
five-barred
five-barred gate
five-beaded
five-branched
five-by-five
five-card
five-chambered
five-corn
five-cornered
five-corners
five-cut
five-day
five-day fever
five-day week
five-dollar bill
five-dollar gold piece
five-eighth
five-em space
five-faced bishop
five-figure
five-finger
five-fingered
five-fingers
five-flowered
five-foiled
five-foot
five-gaited
five-guinea
five-horned
five-hour
five-hundred-dollar bill
five-inch
five-leaf
five-leafed
five-leaved
five-legged
five-line
five-lined
five-lobed
five-master
five-mile
five-minute
five-minute gun
five-nerved
five-nine
five-o'clock shadow
five-o'clock tea
five-page
five-part
five-part time
five-parted
five-percenter
five-ply
five-pointed
five-pointed star
five-pound
five-quart
five-rater
five-reel
five-reeler
five-ribbed
five-room
five-shooter
five-sisters
five-spot
five-spotted
five-star
five-star general
five-story
five-stringed
five-toed
five-toothed
five-twenty
five-valved
five-volume
five-week
five-year
five-year plan
fivepenny morris
fix a limit
fix in the memory
fix in the mind
fix on
fix the blame for
fix the burden of
fix the date
fix the eyes upon
fix the mind on
fix the mind upon
fix the paternity of
fix the price of
fix the responsibility for
fix the thoughts on
fix the thoughts upon
fix the time
fix to
fix together
fix up
fix upon
fix your attention
fix your gaze
fix your position
fix your thoughts
fix-it shop
fixation abscess
fixation neurosis
fixation pause
fixation point
fixative varnish
fixed and flashing light
fixed arch
fixed asset
fixed assets
fixed belief
fixed capital
fixed charge
fixed charges
fixed cost
fixed costs
fixed feast
fixed idea
fixed in the mind
fixed investment trust
fixed liability
fixed light
flame gun
flame holder
flame ignition
flame lamp
flame lily
flame lousewort
flame manometer
flame microphone
flame nettle
flame out
flame projector
flame reaction
flame red
flame scarlet
flame spectrum
flame standard
flame stitch
flame test
flame tetra
flame thrower
flame trap
flame tree
flame up
flame vine
flame-breasted
flame-breathing
flame-colored
flame-colour
flame-cut
flame-darting
flame-devoted
flame-eyed
flame-faced
flame-feathered
flame-fusion process
flame-haired
flame-of-the-forest
flame-of-the-woods
flame-out
flame-red
flame-robed
flame-shaped
flame-snorting
flame-sparkling
flame-thrower
flame-tight
flame-tipped
flame-tree
flapping angle
flare light
flare out
flare path
flare rocket
flare star
flare up
flare-out
flare-up
flare-up light
flash across one's mind
flash across the mind
flash back
flash boiler
flash bulb
flash burn
flash butt welding
flash camera
flash card
flash color
flash fire
flash flood
flash gear
flash generator
flash gun
flash in the pan
flash lamp
flash method
flash of light
flash of lightning
flash of wit
flash on the mind
flash pasteurization
flash photography
flash photolysis
flash picture
flash pipe
flash point
flash powder
flash price
flash set
flash spectrum
flash synchronizer
flash test
flash tube
flash up
flash upon one
flash valve
flash welding
flash wheel
flash-board
flash-house
flash-lock
flash-man
flash-pasteurize
flashed brick
flashed glass
flashing block
flashing light
flashing point
flashover voltage
flask-shaped
flask-shaped heart
flat aft
flat and unprofitable
flat arch
flat as a billiard table
flat as a board
flat as a bowling green
flat as a cake
flat as a flounder
flat as a pancake
flat as a tennis court
flat back
flat broke
flat bug
flat calm
flat cap
flat coat
flat contradiction
flat country
flat drill
flat failure
flat fish
flat foot
flat glass
flat in
flat key
flat knit
flat knitting
flat knot
flat market
flat on your back
flat on your belly
flat on your nose
flat out
flat palm
flat pass
flat point lace
flat press
flat race
flat racing
flat rate
flat refusal
flat roof
flat sage
flat sennit
flat silver
flat sour
flat spin
flat tire
flat wash
flat-armed
flat-backed
flat-beaked
flat-bed
flat-bed cylinder press
flat-bed press
flat-billed
flat-boat
flat-bosomed
flat-bottom
flat-bottomed
flat-breasted
flat-browed
flat-cap
flat-cheeked
flat-chested
flat-coated retriever
flat-compound
flat-crowned
flat-decked
flat-ended
flat-faced
flat-floored
flat-fold
flat-foot
flat-footed
flat-footedly
flat-footedness
flat-fronted
flat-grained
flat-handled
flat-hat
flat-hatted
flat-hatter
flat-hatting
flat-head
flat-headed
flat-heel
flat-heeling
flat-head
flat-headed
flat-heel
flat-heeling
flat-iron
flat-joint pointing
flat-knit
flat-minded
flat-mouthed
flat-noose
flat-nosed
flat-out
flat-out speed
flat-packed
flat-plate keel
flat-plate printing
flat-ribbed
flat-ring
flat-ring armature
flat-roofed
flat-saw
flat-sawed
flat-sawing
flat-sawn
flat-shouldered
flat-sided
flat-slab construction
flat-soled
flat-sour
flat-toothed
flat-top
flat-topped
flat-turret lathe
flat-visaged
flat-waisted
flat-ways
flat-woven
flatbed cylinder press
flatbed press
flathead cat
flathead catfish
flatheaded apple tree borer
flatheaded borer
flattail mullet
flatten in
flatten out
flatten yourself
flattened-strand rope
flattening oven
flattening stone
flatter the palate
flatter yourself
flatter-blind
flattering remark
flattering tongue
flattening furnace
flattening mill
flattening oil
flattop antenna
flattuous melancholia
flatwork ironer
flavo-
flavor control
flavoring extract
flaw in an argument
flax bellflower
flax blue
flax brake
flax buncher
flax bundler
flax canker
flax comb
flax dodder
flax dresser
flax family
flax hackler
flax lily
flax olive
flax plant
flax retter
flax ripple
flax rust
flax snapdragon
flax spinner
flax star
flax straw
flax vine
flax wheel
flax wilt
flax winder
flax-colored
flax-flower blue
flax-leaved
flax-polled
flax-seed
flax-sick
flaxen-colored
flaxen-haired
flaxen-headed
flaxen-wigged
flaxseed cake
flaxseed coal
flaxseed oil
flea beetle
flea bug
flea collar
flea fair
flea hopper
flea in the ear
flea in your ear
flea in your nose
flea louse
flea market
flea mint
flea weevil
flea-bane
flea-bite
flea-bitten
flea-lugged
fleabane mullet
fleam tooth
fleche de lard
flector tuning
fleece vine
fleece wool
fleece-lined
fleece-vine
fleece-white
fleecy cloud
fleecy-looking
fleecy-white
fleecy-winged
fleer at
fleet admiral
fleet engineer
fleet insurance
fleet milk
fleet street
fleet submarine
fleet-foot
flex point
flex wing
flex your muscles
flexible shaft
flexible supports
flexible-shaft drill
flexuoso-
flexure plate scale
flick knife
flick of the eyelash
flick you on the raw
flicker of an eye
flicker photometer
flicker photometry
flickering flame
flickering light
flier-out
flight arrow
flight attendant
flight bag
flight control
flight crew
flight deck
flight engineer
flight feather
flight feathers
flight formation
flight indicator
flight instrument
flight leader
flight lieutenant
flight line
flight muscle
flight nurse
flight of fancy
flight of ideas
flight of steps
flight of time
flight of wit
flight officer
flight operation
flight path
flight path angle
flight pay
flight plan
flight reaction
flight recorder
flight shooter
flip side
flip side, the
flip through
flip through the pages
flip your lid
flip your wig
flip-flap
flip-flop
flip-flop circuit
flip-flopped
flip-flopping
flip-flops
flip-up
flipper turns
flipperty-flopperty
flippity-flop
flirt with
flirt with death
flirt with the idea
flirt-gill
flirtation-proof
flirting with death
flitch beam
flitch girder
flitch plate
flitter-mouse
float a bond issue
float a loan
float bowl
float bridge
float builder
float carburetor
float chamber
float copper
float fescue
float fishing
float foxtail
float glass
float grass
float high
float in a sea of doubt
float in space
float in the air
float key
float net
float on your back
float ore
float plane
floating soap
floating stage
floating stock
floating supply
floating vote
floating-point representation
flocculent precipitate
flock book
flock dot
flock duck
flock mating
flock paper
flock pigeon
flock to
flock together
flock-meal
floe rat
flog a dead horse
flog yourself
flogging chisel
flogging hammer
flood anchor
flood control
flood dam
flood fallowing
flood insurance
flood lamp
flood main ballast
flood negative
flood of light
flood of tears
flood plain
flood pounds in after trim
flood the market
flood the market with
flood the tank
flood the tanks
flood tide
flood with light
flood-gate
flood-hatch
flood-tide
floodable length
flooded with light
floodlight projector
floor arch
floor beam
floor board
floor boarding
floor broker
floor chisel
floor clamp
floor cleaner
floor cleaning
floor covering
floor dresser
floor dressing
floor enamel
floor finish
floor furnace
floor hanger
floor joist
floor knob
floor lamp
floor leader
floor line
floor manager
floor mat
floor model
floor mop
floor oil
floor oiler
floor paint
floor pit
floor plan
floor plate
floor play
floor plug
floor pocket
floor polish
floor polisher
floor price
floor push
floor sample
floor sander
floor scraper
floor show
floor slab
floor stain
floor switch
floor system
floor tile
floor timber
floor trader
floor wax
floor waxing
floor-cloth
floor-length
floor-load
floor-walker
flooring beam
flooring block
flooring board
flooring brad
flooring clamp
flooring grating
flooring hatchet
flooring joist
flooring lumber
flooring nail
flooring plank
flooring plaster
flooring saw
flooring stone
flooring timber
flop down
flop forging
flop-eared
flop-top
flora and fauna
floral clock
floral decoration
floral decorator
floral emblem
floral envelope
floral leaf
flores sulphuris
flori-
florid passage
florid phrase
florid style
flory counter-flory
flos ferri
flos-ferri
floss silk
floss hole
floss silk
floss thread
floss-silk
floss-silk tree
flossflower blue
flotation blanket
flotation cell
flotation gear
flotsam and jetsam
flounce off
flounce out
flounder-man
flour bag
flour barrel
flour beetle
flour bin
flour blend
flour blender
flour blending
flour bolt
flour bolter
flour bolting
flour copper
flour corn
flour grinder
flour hopper
flour maker
flour mill
flour miller
flour milling
flour mite
flour mixer
flour moth
flour packer
flour paste
flour sack
flour sifter
flour sifting
flour slick
flour weevil
flour weigher
flour worm
flourish of rhetoric
flourish of trumpets
flourishing condition
flourishing thread
flow back
flow bean
flow breccia
flow calorimeter
flow chart
flow cleavage
flow control
flow diagram
flow from
flow gate
flow in
flow moss
flow nipple
flow of air
flow of blood
flow of ideas
flow of thought
flow of time
flow of words
flow on
flow out
flow over
flow sheet
flow texture
flow together
flow valve
flow-blue
flow-control system
flow-on
flowage texture
flower arrangement
flower basket
flower bed
flower beetle
flower boat
flower bowl
flower box
flower bud
flower bug
flower child
flower concrete
flower cup
flower fence
flower fly
flower garden
flower gardening
flower girl
flower grower
flower head
flower maker
flower making
flower nymph
flower of age
flower of life
flower outbloom
flower painter
flower painting
flower paintress
flower part
flower piece
flower power
flower pride
flower scissors
flower seller
flower shop
flower show
flower spike
flower stalk
flower time
flower tree
flower-bearing
flower-bespangled
flower-besprinkled
flower-breeding
flower-crowned
flower-cup fern
flower-de-luce
flower-decked
flower-embroidered
flower-enameled
flower-enwoven
flower-faced
flower-gentle
flower-growing
flower-hung
flower-infolding
flower-inwoven
flower-kirtled
flower-of-Jove
flower-of-an-hour
flower-pecker
flower-pot
flower-scented
flower-shaped
flower-sprinkled
flower-strewn
flower-sucking
flower-sweet
flower-teeming
flowering currant
flowering dogwood
flowering flax
flowering maple
flowering moss
flowering plant
flowering quince
flowering raspberry
flowering rush
flowering spurge
flowering time
flowering tobacco
flowering wintergreen
flowering-rush family
flowers of rhetoric
flowers of speech
flowers of sulfur
flowers of zinc
flowers-of-Jove
flowery language
flowery style
flowery-kirtled
flowery-mantled
flowing locks
flowing periods
flowing stream
flowing tongue
flowing toward
flowing tresses
flowing-robed
flucti-
fluctuation-proof
flue bridge
flue cleaner
flue pipe
flue plate
flue stop
flue stopper
flue surface
flue-cure
flue-cured
flue-curing
fluent tongue
fluff your lines
fluff-gib
fluffy-haired
fluffy-minded
fluid assets
fluid clutch
fluid compression
fluid coupling
fluid die
fluid drachm
fluid dram
fluid drive
fluid dynamics
fluid extract
fluid flywheel
fluid friction
fluid mechanics
fluid motion
fluid movement
fluid operations
fluid ounce
fluid pressure
fluid-compressed
flump down
flunk out
fluo-
fluoboric acid
fluosphosphoric acid
fluor spar
fluor-
fluor-spar
fluorescence microscope
fluorescent lamp
fluorescent light
fluorescent lighting
fluorescent paint
fluorescent tube
fluoric acid
fluorine dating
fluorite green
fluorite violet
fluoro-
fluorocarbon plastic
fluorophosphoric acid
fluosilicic acid
flush box
flush coat
flush deck
flush girt
flush of money
flush out
flush rim
flush tank
flush with money
flush-bound
flush-cut
flush-deck vessel
flush-decked
flush-decked vessel
flush-decker
flush-head rivet
flush-headed
flush-jointed
flush-plate filter
flush-plated
flushed with anger
flushed with joy
flushed with pride
flushed with success
flushed with victory
flushing out
flushing rim
flush glass
flute shrike
flute stop
flute-douce
flute-shaped
fluting iron
flutter kick
flutter the dovecotes
flutter tonguing
flutter valve
flutter wheel
flutter-headed
fluttering the eyelids
fluvio-aeolian
flux and reflux
flux de bouche
flux de mots
flux de paroles
flux density
flux function
flux gate
flux linkage
flux of time
flux of words
flux turn
flux valve
fluxing lime
fly a kite
fly about
fly agaric
fly aloft
fly anchor
fly apart
fly ash
fly at
fly back
fly ball
fly bar
fly blind
fly blister
fly block
fly book
fly by the seat of your pants
fly cap
fly casting
fly cop
fly dope
fly down
fly drill
fly finisher
fly finishing
fly fishing
fly floor
fly frame
fly front
fly fungus
fly gallery
fly governor
fly half
fly high
fly honeysuckle
fly in formation
fly in the face of
fly in the face of facts
fly in the face of reason
fly in the face of the law
fly in the ointment
fly in the teeth of
fly into a passion
fly into a rage
fly into a temper
fly into the face of danger
fly left seat
fly line
fly loft
fly low
fly mold
fly mushroom
fly net
fly nut
fly oat
fly off
fly off at a tangent
fly off the handle
fly on instruments
fly open
fly orchid
fly out
fly page
fly phalanger
fly poison
fly powder
fly press
fly rail
fly right seat
fly rod
fly rollway
fly rope
fly sheet
fly snapper
fly spray
fly spring
fly stone
fly storm warnings
fly swatter
fly tent
fly the beam
fly the coop
fly tick
fly tip
fly title
fly to
fly to the assistance of
fly to the sword
fly up
fly wagon
fly water
fly way
fly weevil
fly whisk
fly-away
fly-bane
fly-bitten
fly-blow
fly-blown
fly-boat
fly-boy
fly-by-night
fly-catcher
fly-catching
fly-catching warbler
fly-dung
fly-fish
fly-fisher
fly-fisherman
fly-fishing
fly-flap
fly-free
fly-killing
fly-leaf
fly-net
fly-past
fly-rail
fly-sheet
fly-specked
fly-spleckled
fly-strike
fly-stuck
fly-swarmed
fly-up
fly-wheel
fly-yrap
flyaway grass
flying banana
flying bathtub
flying bedspring
flying bedstead
flying boat
flying bomb
flying bond
flying boxcar
flying bridge
flying buttress
flying cadet
flying circus
flying classroom
flying colors
flying colours
flying column
flying crow's nest
flying deck
flying doctor
flying dragon
flying dutchman
flying field
flying fish
flying flame
flying fortress
flying fox
flying frog
flying gangway
flying gurnard
flying horses
flying jib
flying jib boom
flying jib guy
flying jib martingale
flying jib stay
flying jump
flying kite
flying kites
flying lemur
flying lessons
flying lizard
flying machine
flying mare
flying marmot
flying moor
flying motorcycle
flying mouse
flying nightingale
flying officer
flying phalanger
flying platform
flying range
flying ring
flying robin
flying rumor
flying sap
flying saucer
flying shear
flying skysail
flying speed
flying spot
flying squad
flying squadron
flying squirrel
flying start
flying tackle
flying tank
flying tanker
flying torpedo
flying wing
flywheel effect
flywheel efficiency
flywheel-explosion
foam at the mouth
foam extinguisher
foam glass
foam rubber
foam-beat
foam-born
foam-crested
foam-flanked
foam-flecked
foam-girt
foam-lit
foam-painted
foam-rubber mattress
foam-white
foaming at the mouth
fob chain
fob off
fob on
focal distance
focal epilepsy
focal infection
focal inflammation
focal length
focal plane
focal point
focal ratio
focal-plane shutter
focus lamp
focus of attention
focus of interest
focus on
focus the attention
focus the mind on
focus the thoughts on
focus tube
focus upon
focus your thoughts
focusing cloth
focusing glass
foe-encompassed
foe-reaped
foe-subduing
foeti-
fog alarm
fog bank
fog bell
fog belt
fog buoy
fog circle
fog drip
fog forest
fog gong
fog grass
fog gun
fog lamp
fog level
fog light
fog screen
fog signal
fog up
fog whistle
fog-bank
fog-beset
fog-blue
fog-born
fog-bred
fog-hidden
fog-logged
fog-ridden
fog-signal
foie de veau
foie gras
foist in
foist on
foist yourself upon
fold dike
fold in
fold over
fold soke
fold to the heart
fold up
fold your arms
fold-away bed
folded dipole
folded sleep
folder-up
folding bed
folding bicycle
folding camera
folding chair
folding door
folding fin
folding ladder
folding machine
folding money
folding press
folding table
folding wing
foliage brown
foliage carver
foliage green
foliage leaf
foliage plant
foliate Architect
foliated joint
foliato-
folic acid
folie a deux
folie de grandeur
folie du doute
folinic acid
folio letterheads
folio noteheads
folio post
folio verso
folk air
folk art
folk ballad
folk ballads
folk belief
folk carol
folk custom
folk dance
folk dancing
folk dialect
folk drama
folk ethics
folk etymology
folk guitarist
folk hero
folk lay
folk literature
folk medicine
folk melody
folk memory
folk mind
folk motif
folk music
folk myth
folk nation
folk play
folk poetry
folk psychologist
folk psychology
folk rock
folk school
folk singer
folk singing
folk society
folk song
folk songs
folk speech
folk state
folk story
folk tale
folk theater
folk tune
folk weave
folk-dancer
folk-etymological
folk-lore
folk-music festival
folk-rock
folk-rock singer
folk-sing
follicle mite
follicle-stimulating hormone
follow a clew
follow a clue
follow a course
follow a trade
follow advice
follow after
follow as a matter of course
follow as an occupation
follow at heel
follow block
follow board
follow close upon
follow dies
follow from
follow implicitly
follow in a series
follow in the footsteps of
follow in the footsteps of
follow in the steps of
follow in the trail of
follow in the wake of
follow in your footsteps
follow like sheep
follow on
follow on the heels of
follow out
follow peace with all men
follow protocol
follow rest
follow shot
follow strong drink
follow suit
follow the
follow the beam
follow the beaten path
follow the book
follow the crowd
follow the example of
follow the fashion
follow the hounds
follow the lead of
follow the leader
follow the party line
follow the rule
follow the rules
follow the scent of
follow the sea
follow the spoor of
follow the straight and narrow
follow the trail of
follow the trail to
follow through
follow to a conclusion
follow up
follow up an inquiry
follow up the attack
follow your nose
follow-focus shot
follow-my-leader
follow-on
follow-through
follow-up
follower plate
follower rest
follower-up
followers of Christ
following the letter
following wind
folly-bent
folly-blind
folly-drenched
folly-fallen
folly-fed
folly-maddened
folly-painting
folly-snared
folly-stricken
fond hope
fond illusion
fond of
fond of society
fond plow
fond-blind
fond-conceited
fond-hardy
fond-sparkling
fondness for society
fondue Bourguignonne
fons et origo
font name
foo yong
foo yoong
foo-foo
food allowance
food analyst
food and drink
food ball
food cabinet
food canal
food card
food cart
food chain
food chemist
food color
food container
food cycle
food faddist
food fish
food for powder
food for thought
food for worms
food freezing
food grain
food grower
food inspector
food items
food of the gods
food package
food packer
food plant
food poisoning
food preservative
food reserve
food shop
food store
food supply
food tax
food tube
food value
food waste
food web
food yolk
food-gathering
food-processing
food-producing
food-productive
food-providing
food-sick
food-size
fool around
fool around with
fool away
fool away time
fool duck
fool hay
fool hen
fool mistake
fool notion
fool plow
fool trick
fool with
fool's cap
fool's coat
fool's errand
fool's gold
fool's paradise
fool's parsley
fool's trick
fool's-cap
fool's-parsley
fool-bold
fool-born
fool-frequented
fool-frighting
fool-happy
fool-hasty
fool-headed
fool-heady
fool-large
fool-proof
fooling around
foolish act
foolish guillemot
foolish thing
foolish-bold
foolish-looking
foolish-wise
foolish-witty
foolscape octavo
foolscape quarto
foot accelerator
foot at
foot base
foot bath
foot bellows
foot bone
foot brake
foot by foot
foot candle
foot carpet
foot correctionist
foot cushion
foot dangle
foot dirt
foot doctor
foot drop
foot fault
foot for foot
foot front
foot guard
foot iron
foot it
foot jaw
foot level
foot lever
foot lift
foot line
foot mange
foot mantle
foot match
foot measure
foot page
foot pan
foot passenger
foot pavement
foot post
foot pump
foot race
foot racer
foot racing
foot rail
foot road
foot rot
foot rule
foot scab
foot score
foot scraper
foot screw
foot soldier
foot specialist
foot stove
foot the bill
foot tour
foot track
foot trail
foot traveler
foot tubercle
foot up
foot valve
foot waling
foot walker
foot warmer
foot washing
foot-acted
foot-and-mouth disease
foot-binding
foot-breadth
foot-candle
foot-candle meter
foot-cloth
foot-dragger
foot-dragging
foot-faring
foot-firm
foot-free
foot-grain
foot-grain per second
foot-guard
foot-hook
foot-hot
foot-lambert
foot-lame
foot-length
foot-licking
foot-loose
foot-mantle
foot-mark
foot-note
foot-pale
foot-payh
foot-pound
foot-pound-second
foot-poundal
foot-power
foot-running
foot-second
foot-slog
foot-sore
foot-tiring
foot-ton
foot-up
foot-wall
foot-weary
football field
football pools
football season
footed arrow
foothill death camas
foothill pine
foothill yellow pine
footing ale
footing beam
footing it
footing piece
footing stone
footloose and fancy-free
footman moth
footmen's gallery
footplate man
footstep bearing
footwear merchant
for FC
for God's sake
for a certainty
for a consideration
for a coon's age
for a dog's age
for a fact
for a lifetime
for a little while
for a long time
for a mere song
for a moment
for a month of Sundays
for a rainy day
for a season
for a short time
for a song
for a time
for a wonder
for ages
for ages of ages
for all me
for all practical purposes
for all that
for all the world
for all the world like
for all time
for all to see
for all you are worth
for all you know
for all your natural life
for always
for amusement
for an age
for and
for anything you knows
for aught one cares
for aught one knows
for aye
for better or for worse
for certain
for crying out loud
for dear life
for donkey's years
for each
for effect
for ever
for ever and ever
for ever so long
for evermore
for example
for fear of
for fear that
for fete
for foehn
for form's sake
for free
for fun
for good
for good and all
for good measure
for goodness sake
for heaven's sake
for hire
for instance
for it
for keeps
for kicks
for lack of something better
for lagniappe
for laughs
for life
for long
for love
for many a long day
for mercy's sake
for money
for my part
for nickels and dimes
for no other ears
for nothing
for others
for pennies
for practical purposes
for professional services
for public consumption
for real
for rent
for sale
for services rendered
for short
for show
for some reason
for sport
for sure
for that
for that cause
for that reason
for the asking
for the best
for the better
for the birds
for the cause that
for the devil of it
for the duration
for the fun of it
for the heck of it
for the hell of it
for the life of you
for the love of
for the meantime
for the moment
for the most part
for the nonce
for the people
for the period of
for the purpose of
for the reason that
for the record
for the sake of
for the term of your days
for the time
for the time being
for this cause
for this occasion
for this reason
for two
for want of
for what reason
for whatever reason
for which
for which reason
for why
for years on end
for your benefit
for your ears only
for your health
for your life
for your money
for your part
for yourself
for-
forage acre
forage cap
forage grass
forage poisoning
forage press
foraging ant
foramen magnum
foramen ovale
forasmuch as
forbid it Heaven
forbidden fruit
forbidden love
forbidding countenance
force attack
force bed
force by
force feed
force feeding
force fit
force from
force function
force in
force into a mold
force main
force majeure
force of arms
force of friction
force of gravity
force of habit
force of inertia
force of life
force of viscosity
force on
force open
force out
force out of place
force play
force polygon
force pump
force to the wall
force upon
force your hand
force your thoughts from
force your way
force-closed
force-fed
force-feed
force-feeding
force-meat
force-out
force-pump
force-put
force-ripe
forced coding
forced draft
forced landing
forced march
forced marriage
forced resignation
forced sale
forced separation
forced-labor camp
forceps-shaped
forces majeures
forces of nature
forcible feeble
forcible removal
forcible seizure
forcible shift
forcible-feeble
forcing bed
forcing bid
forcing engine
forcing fit
forcing house
forcing on
forcing out
forcing pit
forcing system
forcing-pump
fore and aft
fore bow
fore edge
fore gaff-topsail
fore jack
fore lift
fore part
fore plane
fore rent
fore rider
fore sey
fore tooth
fore topgallant sail
fore wing
fore-
fore-adapt
fore-age
fore-alleged
fore-and-aft
fore-and-aft axis
fore-and-aft rig
fore-and-aft rigged
fore-and-aft sail
fore-and-aft schooner
fore-and-aft tackle
fore-and-aft-rigged
fore-and-after
fore-appoint
fore-axle
fore-being
fore-cabin
fore-check
fore-stay
fore-stick
fore-tack
fore-tooth
fore-topgallant
fore-topgallant backstay
fore-topgallant brace
fore-topgallant lift
fore-topgallant mast
fore-topgallant shroud
fore-topgallant stay
fore-topgallant studding sail
fore-topgallant yard
fore-topmast
fore-topmast backstay
fore-topmast stay
fore-topmast staysail
fore-topmast staysail stay
fore-topmast studding sail
fore-topmast-studding-sail boom
fore-topsail
fore-topsail lift
fore-topsail yard
fore-trysail gaff
fore-trysail peak halyard
fore-trysail vang
fore-uard
fore-vouched
fore-wind
fore-wit
forearm smash
forecastle deck
forecastle hand
forecastle hatch
forecastle head
forecastle netting
forecastle rail
forecastle scuttle
forecastle watch
foredoomed hope
foregone conclusion
foreground detail
forehand shaft
forehand shooting
foreign accent
foreign affairs
foreign aid
foreign bill
foreign body
foreign correspondent
foreign devil
foreign element
foreign exchange
foreign influx
foreign intruder
foreign intrusion
foreign legion
foreign loan
foreign minister
foreign ministry
foreign mission
foreign money
foreign office
foreign policy
foreign secretary
foreign securities
foreign service
foreign service officer
foreign threat
foreign-aid
foreign-appearing
foreign-born
foreign-bred
foreign-built
foreign-flag
foreign-language dictionary
foreign-language study
foreign-looking
foreign-made
foreign-manned
foreign-owned
foreign-speaking
forelock hook
foreman of the jury
forenoon watch
forensic address
forensic chemistry
forensic jurisprudence
forensic medicine
forensic psychiatry
foreroyal backstay
foreroyal brace
foreroyal lift
foreroyal mast
foreroyal shroud
foreroyal stay
foreroyal studding sail
foreroyal yard
foreroyal-studding-sail boom
forest conservation
forest court
forest cover
forest dweller
forest fire
forest fire fighter
forest floor
forest fly
forest god
forest gods
forest green
forest gum
forest horse
forest keeper
forest land
forest mahogany
forest management
forest oak
forest officer
forest peat
forest pig
forest preserve
forest pygmy
forest ranger
forest red gum
forest reserve
forest school
forest sheriff
forest spirit
forest tent caterpillar
forest tupelo
forest type
forest warden
forest white
forest-belted
forest-born
forest-bosomed
forest-bound
forest-bred
forest-clad
forest-covered
forest-crowned
forest-dwelling
forest-felling
forest-frowning
forest-grown
forest-rusting
forever and a day
forever and aye
forfeit your good opinion
forge ahead
forge blower
forge furnace
forge furnaceman
forge hammerman
forge pressman
forge roller
forge shearer
forge slinger
forge smith
forge water
forge welding
forgery bond
forgery-proof
forget about it
forget it
forget nothing
forget the odds
forget to remember
forget your own name
forget your place
forget yourself
forget-me-not
forget-me-not blue
forgetful of self
forgetting nothing
forging press
forgive and forget
fork beam
fork cross
fork cutler
fork forger
fork grinder
fork hafter
fork lightning
fork luncheon
fork maker
fork molder
fork out
fork over
fork splitter
fork truck
fork-carving
fork-end
fork-filled
fork-head
fork-lift truck
fork-pronged
fork-ribbed
fork-shaped
fork-tail
fork-tailed
fork-tined
fork-tongued
forked chain
forked lightning
forked tongue
forked-headed
forked-tailed
forklift truck
forlorn hope
forlorn of
form a conviction
form a line
form a mental picture of
form a part of
form a series
form a unity
form a whole
form an estimate
form an opinion
form board
form class
form drag
form factor
form four
form fours
form genus
form ideas
form letter
form master
form of address
form of government
form of service
form of speech
form of worship
form quotient
form species
form squares
form stop
form the foundation of
forswear yourself
fort royal
forte-piano
fortes fortuna juvat
forth of
forth putting
fortification agate
fortified flour
fortified milk
fortified tunnel
fortified wine
fortunate outcome
fortune cookie
fortune hunter
fortune's child
fortune's favor
fortune's favorite
fortune's fool
fortune-hunter
fortune-hunting
fortune-tell
fortune-teller
fortune-telling
forty hours
forty machine
forty ways from Sunday
forty winks
forty-acre
forty-eight
forty-eighth
forty-eighthmo
forty-eightmos
forty-fifth
forty-first
forty-five
forty-foot
forty-four
forty-fourth
forty-knot
forty-legged
forty-mile
forty-nine
forty-niner
forty-ninth
forty-one
forty-pound
forty-second
forty-seven
forty-seventh
forty-six
forty-sixth
forty-skewer
forty-spot
forty-third
forty-three
forty-ton
forty-two
forty-year
forward bias
forward bridge
forward deck
forward delivery
forward echelon
forward exchange
forward look
forward motion
forward observer
forward pass
forward quotation
forward roll
forward transfer resistance
forward-bearing
forward-creeping
forward-flowing
forward-looking
forward-pressing
forward-turned
forwarding agent
fossil copal
fossil footprint
fossil fuel
fossil gum
fossil ivory
fossil man
fossil mud crack
fossil oil
fossil ore
fossil print
fossil resin
fossil resins
fossil sea water
fossil turquoise
fossil wax
fossil word
foster a belief
foster an idea
foster babe
foster brother
foster care
foster child
foster dam
foster daughter
foster father
foster home
foster in the mind
foster land
foster milk
foster mother
foster nurse
foster parent
foster sire
foster sister
foster son
foster the hope
foster-brother
foster-child
foster-father
foster-mother
foster-nurse
foster-sister
foster-son
foul anchor
foul ball
foul breath
foul invective
foul language
foul line
foul matter
foul odor
foul out
foul play
foul pole
foul shot
foul the anchor
foul tip
foul up
foul weather
foul wind
foul your own nest
foul-breathed
foul-browed
foul-faced
foul-handed
foul-looking
foul-minded
foul-mindedness
foul-mouthed
foul-reeking
foul-smelling
foul-spoken
foul-tasting
foul-tongued
foul-up
foul-weather suit
fouled anchor
fouled up
fouled-up
found object
found on
found wanting
foundation course
foundation cream
foundation garment
foundation plate
foundation stone
foundation stop
founded on
founded upon a rock
founder's type
founders' shares
founders' type
founding father
foundling hospital
foundry facing
foundry iron
foundry press
foundry proof
foundry scrap
foundry type
fountain grass
fountain moss
fountain of youth
fountain pen
fountain plant
fountain runner
fountain shell
fountain syringe
fountain tree
four and twenty
four bits
four corners of the earth
four flush
four freedoms
four horsemen
four hundred
four o’ clock
four o’cat
four o’clock
four of a kind
four old cat
four questions
four-a-cat
four-acre
four-bagger
four-ball
four-ball match
four-bit
four-bottom plow
four-cant
four-cent
four-centered
four-centered arch
four-channel stereo system
four-color
four-color press
four-color problem
four-color process
four-colored
four-colour
four-cornered
four-coupled
four-cutter
four-cycle
four-cylinder
four-cylindered
four-day
four-deal bridge
four-deck
four-decked
four-decker
four-dimensional
four-dimensional geometry
four-dimensional space
four-dimensioned
four-dollar
four-edged
four-em space
four-eyed
four-eyed fish
four-eyed opossum
four-eyes
four-faced
four-figured
four-fingered
four-flowered
four-flush
four-flusher
four-flushing
four-foot
four-foot octave
four-foot stop
four-footed
four-footed butterfly
four-footer
four-four time
four-gallon
four-grain
four-gram
four-gun
four-hand
four-handed
four-hander
four-headed
four-horned
four-horse
four-horsed
four-hour
four-hours
four-hundred-day clock
four-in-hand
four-in-hand coach
four-in-hand etc
four-in-hand tie
four-inch
four-leaf
four-leaf clover
four-leafed
four-leaved
four-leaved grass
four-leggered
four-letter
four-letter word
four-lettered
four-line
four-line octave
four-lined
four-lobed
four-masted
four-masted bark
four-masted brig
four-master
four-minute
four-minute man
four-month
four-o’clock
four-oar
four-oared
four-o’clock
four-o’clock family
four-ounce
four-part
four-part diaphony
four-part flask
four-part harmony
four-part time
four-percenter
four-phase
four-place
four-ply
four-post
four-posted
four-poster
four-poster bed
four-pound
four-quarter
four-rayed
four-ring
four-roomed
four-rowed
four-rowed barley
four-second
four-shilling
four-sided
four-spined
four-spot
four-spotted
four-square
four-star general
four-storied
four-story
four-stranded
four-stringed
four-striped
four-striper
four-stroke
four-stroke cycle engine
fox trot
fox wedge
fox wolf
fox-colored
fox-faced
fox-fire
fox-flove
fox-fur
fox-furred
fox-hunt
fox-hunting
fox-like
fox-nosed
fox-skinned
fox-trot
fox-trotted
fox-trotting
fox-visaged
foxglove beardtongue
foxtail cactus
foxtail grass
foxtail lily
foxtail millet
foxtail pine
foxtail saw
foxtail wedge
foxtail wedging
foxtail-leaves
fps units
fra diavolo
fractional currency
fractional distillation
fractional lot
fractional note
fractional-pitch
fractocumulus cloud
fracture one
fragile health
fragmentation bomb
fragmentation grenade
fragrance control
fragrant as new-mown hay
fragrant sumac
fragrant weed
fraid-cat
fraidy-cat
frail health
frail humanity
frail sister
frail-bodied
frame aerial
frame assembler
frame bar
frame bend
frame boat
frame brazer
frame breaker
frame breaking
frame bridge
frame builder
frame building
frame cleaner
frame construction
frame cottage
frame dam
frame door
frame doubler
frame dresser
frame driller
frame dwelling
frame finisher
frame fitter
frame gate
frame house
frame line
frame lumber
frame maker
frame making
frame molding
frame of mind
frame of reference
frame plate
frame saw
frame sawyer
frame set
frame space
frame structure
frame stud
frame timber
frame trestle
frame turner
frame up
frame vise
frame wall
frame worker
frame-house
frame-made
frame-up
frame-work
frames of reference
framing chisel
framing number
framing square
framing table
fran tireur
franc-archer
franc-tireur
franchise clause
franchise tax
franco-
francs-archers
francs-tireurs
frangible booster
frangula emodin
frank almonage
frank chase
frank-almoign
frank-faced
frank-fee
frank-ferm
frank-law
frank-marriage
frank-pledge
frank-spoken
frank-tenement
frankfurt sausage
frankincense pine
franklin stove
frater house
fraternal feeling
fraternal insurance
fraternal order
fraternal society
fraternal twin
fraternal twins
fraternity house
fraternity man
fraternize with
fraud order
fraudulent voter
fraught with danger
fraught with doom
fraught with significance
frayed nerves
frazzled nerves
freak accident
freak of nature
freak out
freak out on
freak show
freak-out
freaked out
freaked-out
freakish inspiration
freckle-faced
freckled-faced
fred-stole
free abstraction
free abstractionist
free admission
free agent
free air
free alongside ship
free alongside vessel
free alternating current
free and clear
free and common socage
free and easy
free as a bird
free as air
free as the wind
free ascent
free association
free association test
free atmosphere
free balloon
free ballooning
free bench
free bid
free capital
free choice
free church
free churchman
free citizen
free city
free coinage
free companion
free company
free competition
free cost
free course
free decision
free delivery
free diver
free diving
free economy
free electron
free electron theory of metals
free energy
free enterprise
free enthalpy
free expansion
free expressionism
free expressionist
free fall
free flight
free for nothing
free for the asking
free form
free from
free gift
free giver
free gold
free goods
free gratis
free gratis for nothing
free hand
free house
free kick
free labour
free lance
free list
free liver
free living
free love
free lover
free lunch
free milling
free morpheme
free nation
free of
free of charge
free of cost
free of expense
free on board
free on rail
free pass
free person
free perspective
free play
free port
free press
free radical
free reach
free reaching
free ride
free rider
free school
free scope
free silver
free silverism
free silverite
free socage
free soi
free soil
free speech
free spirit
free state
free thought
free throw
free throw line
free ticket
free time
free trade
free trade area
free trader
free translation
free up
free variable
free variation
free verse
free vote
free will
free with your money
free world
free yourself
free yourself from
free zone
free-acting
free-air ionization chamber
free-armed
free-associate
free-associated
free-associating
free-banking
free-bestowed
free-blown
free-board
free-boot
free-bored
free-born
free-bred
free-burning
free-denizen
free-enterprise
free-enterprise economy
free-enterprise system
free-falling
free-floating
free-floating anxiety
free-flowering
free-flowing
free-footed
free-for-all
free-form
free-going
free-grown
free-hand
free-handed
free-handedly
free-handedness
free-hearted
free-lance
free-lance worker
free-lance writer
free-lancer
free-liver
free-living
free-lovism
free-machining
free-minded
free-mindedly
free-mindedness
free-mouthed
free-moving
free-quarter
free-quarterer
free-range
free-reed
free-rider
free-select
free-silver
free-soil
free-soiler
free-soilism
free-space aerial
free-speaking
free-spending
free-spirited
free-spoken
free-spokenly
free-spokenness
free-standing
free-stone
free-swimmer
free-swimming
free-tailed
free-thinker
free-throw
free-tongued
free-trade
free-trader
free-trading
free-tradist
free-versifier
free-willed
free-willer
free-working
freeboard deck
freeboard length
freedom abused
freedom fighter
freedom from fear
freedom from illusion
freedom from want
freedom from war
freedom of speech
freedom of speech and expression
freedom of the city
freedom of the press
freedom of the seas
freedom of worship
freedom ride
freedom rider
freehand drawing
freeing port
freewill baptist
freewill offering
freeze on
freeze out
freeze over
freeze solid
freeze the blood
freeze to
freeze to death
freeze your balls off
freeze-dried
freeze-dry
freeze-drying
freeze-out
freeze-up
freezer burn
freezer locker
freezer ship
freezing cold
freezing drizzle
freezing machine
freezing mixture
freezing point
freezing process
freezing rain
freezing weather
freezing wind
freezing works
freight agent
freight bill
freight boat
freight broker
freight canvasser
freight car
freight clerk
freight conductor
freight density
freight elevator
freight engine
freight forwarder
freight handler
freight house
freight insurance
freight locomotive
freight mileage
freight note
freight rate
freight receipt
freight room
freight shed
freight steamer
freight tariff
freight ton
freight traffic
freight train
freight transport
freight truck
freight vessel
freight wagon
freight with
freight-mile
freighted with doom
freighted with significance
french bulldog
french chalk
french chop
french crown
french door
french dressing
french endive
french fry
french heel
french horn
french leave
french pastry
french polish
french telephone
french toast
french window
french-like
frenzy of desire
frenzy of lust
frequency band
frequency changer
frequency control
frequency converter
frequency curve
frequency distribution
frequency divider
frequency doubler
frequency histogram
frequency indicator
frequency meter
frequency modulation
frequency multiplier
frequency polygon
frequency recorder
frequency relay
frequency spectrum
frequency swing
frequency width
frequency-modulated
frequent as a customer
fresco painting
fresco secco
fresh air
fresh as April
fresh as a daisy
fresh as a rose
fresh as the morning dew
fresh breeze
fresh foods
fresh gale
fresh start
fresh up
fresh water
fresh wind
fresh-baked
fresh-boiled
fresh-caught
fresh-cleaned
fresh-coined
fresh-colored
fresh-complexioned
fresh-cooked
fresh-cropped
fresh-cut
fresh-drawn
fresh-faced
fresh-fallen
fresh-killed
fresh-laid
fresh-leaved
fresh-looking
fresh-made
fresh-painted
fresh-picked
fresh-run
fresh-slaughtered
fresh-washed
fresh-water
fresh-water drum
fresh-water nymph
fresh-water sailor
fresh-watered
freshen the air
freshen up
freshman week
freshman year
freshwater drum
freshwater lake
freshwater stay
fresno scraper
fret and fume
fret at
fret saw
fret-sawing
friar rush
friar skate
friar's balsam
friar's chair
friar's lantern
fribble away
friction ball
friction band
friction belt
friction block
friction board
friction brake
friction breccia
friction clamp
friction clutch
friction composition
friction cone
friction disk
friction drill
friction drive
friction electricity
friction factor
friction fremitus
friction fuse
friction gear
friction gearing
friction glazing
friction head
friction horsepower
friction layer
friction loss
friction machine
friction match
friction pile
friction powder
friction primer
friction pulley
friction ring
friction roller
friction rub
friction saw
friction slip
friction socket
friction sound
friction tape
friction test
friction top
friction tube
friction washer
friction wheel
friction-head
friction-saw
friction-sawed
friction-sawing
friction-sawn
friction-tight
frictional electricity
frictional resistance
frictional rustling
fried eggs
fried rice
friend at court
friend in court
friend in need
friend indeed
friend of the court
friend of your bosom
friendly chat
friendly relations
friendly society
friendly talk
friendly with
friends with
frieze board
frieze coat
frieze rail
frieze-coated
frigate bird
frigate mackerel
frigate pelican
frigate-built
fright disease
fright neurosis
frighten from your propriety
frighten off
frighten out of your senses
frighten out of your wits
frightened out of your wits
frightening off
frightful bore
frightfully rich
frigid purgatorial fires
frigid zone
frill shark
frill-bark
frill-barking
frill-like
frilled lizard
frills and furbelows
fringe area
fringe benefit
fringe benefits
fringe bush
fringe cup
fringe moss
fringe tree
fringe-bell
fringe-toed lizard
fringe-tree bark
fringed brome
fringed galax
fringed gentian
fringed orchis
fringing forest
fringing reef
frise aileron
frit fly
frit-fly
frith-guild
frith-stool
fritter away
fritter away time
fritto misto
frivol away
frivolity-proof
frizzle disease
frizzle fowl
frock coat
frock-coat
frog boot
frog cheese
frog clock
frog crab
frog fly
frog grass
frog hair
frog kick
frog legs
frog lily
frog number
frog pad
frog plant
frog shell
frog spawn
frog spit
frog spittle
frog's-bit
frog-belly
frog-bit
frog-eyed
frog-fish
frog-march
frog-mouth
frog-spawn
frogbit family
from A to Z
from A to izzard
from Dan to Beersheba
from Missouri
from afar
from age to age
from all points of the compass
from all quarters
from away back
from bad to worse
from beginning to end
from better to worse
from clew to earing
from cover to cover
from day to day
from door to door
from egg to apples
from end to end
from everlasting to everlasting
from every quarter
from everywhere
from first to last
from force of habit
from habit
from hand to hand
from hand to mouth
from head to foot
from hell to breakfast
from here in
from here on
from here out
from here to eternity
from here to the back of beyond
from his own mouth
from home
from hour to hour
from information received
from interested motives
from me to you
from memory
from necessity
from notice given
from now on
from now on in
from now till doomsday
from on high
from out in left field
from pillar to post
from pole to pole
from rags to riches
from scratch
from selfish motives
from side to side
from soup to nuts
from stem to stern
from that cause
from that time
from the beginning
from the bottom of your heart
from the cradle to the grave
from the first
from the foundations
from the four winds
from the ground up
from the heart
from the horse's mouth
from the housetops
from the lips of
from the rolls
from the sticks
from the womb to the tomb
from the word 'go'
from then on
from this moment on
from this point
from this time
from this time forward
from time immemorial
from time out of mind
from time to time
frontal assault
frontal attack
frontal bone
frontal convolution
frontal cyclone
frontal gyrus
frontal lobe
frontier post
frontiers of knowledge
fronto-
frost bearer
frost blow
frost feathers
frost flowers
frost grape
frost gray
frost heave
frost heaving
frost insurance
frost lamp
frost line
frost mist
frost over
frost plant
frost point
frost ring
frost signal
frost smoke
frost snipe
frost snow
frost valve
frost-beaded
frost-bit
frost-bite
frost-bitten
frost-blite
frost-bound
frost-burnt
frost-chequered
frost-concocted
frost-congealed
frost-covered
frost-crack
frost-fettered
frost-firmed
frost-free
frost-hardy
frost-hoar
frost-kibed
frost-nip
frost-nipped
frost-pure
frost-rent
frost-ridge
frost-riven
frost-tempered
frost-work
frosted glass
frosted heart
frosted lens
frosted shake
frostweed aster
frosty green
frosty mildew
frosty-face
frosty-faced
frosty-mannered
frosty-natured
frosty-spirited
frosty-whiskered
froth at the mouth
froth flotation
froth fly
froth hopper
froth insect
froth spit
froth worm
froth-becurled
froth-born
froth-clad
froth-faced
froth-foamy
frothing at the mouth
frou-frou
frown at
frown down
frown upon
frowned-upon behavior
frowns of fortune
frowzy-headed
frozen assets
frozen custard
frozen daiquiri
frozen dessert
frozen fog
frozen food
frozen foods
frozen in
frozen music
frozen out
frozen pudding
frozen solid
frozen to death
frozen water
frozen-food locker
fructose intolerance
frugal to excess
fruit acid
fruit bar
fruit bark beetle
fruit barrel
fruit basket
fruit bat
fruit bearing
fruit belt
fruit blight
fruit blossom
fruit body
fruit bowl
fruit bud
fruit bug
fruit bush
fruit buyer
fruit cake
fruit can
fruit cane
fruit canner
fruit canning
fruit chafer
fruit cocktail
fruit compote
fruit crate
fruit crow
fruit culture
fruit cup
fruit dealer
fruit dish
fruit dot
fruit eater
fruit envelope
fruit ether
fruit evaporator
fruit farm
fruit farmer
fruit vinegar
fruit wood
fruit-bringing
fruit-candying
fruit-drying
fruit-eating
fruit-eating bird
fruit-evaporating
fruit-grower
fruit-growing
fruit-paring
fruit-producing
fruit-tree bark beetle
fruit-tree leaf roller
fruiting body
fruits and vegetables
frustum of a pyramid
fry cook
fry-cooker
fry-pan
frying pan
frying-pan
ft-lb
ft-pdl
fu-yang
fuchsia purple
fuchsia red
fuchsia tree
fuchsia-flowered
fuck about
fuck up
fuddle-brained
fuddling cup
fuddling glass
fuddy-duddies
fuddy-duddiness
fuddy-duddy
fudge edge
fudge in
fudge together
fudge up
fudge wheel
fuel additive
fuel cell
fuel dope
fuel element
fuel engineer
fuel engineering
fuel filter
fuel injection
fuel injector
fuel oil
fuel quantity indicator
fuel ship
fuel up
fuel-flow meter
fugae warrant
fugie warrant
fugue form
fugue state
fulfill a short sale
fulfill your duty
fulfill your military obligation
fulfill your role
fulgurant pain
full age
full and by
full authority
full beard
full binding
full blast
full blood
full bloom
full board
full bottom
full bridle
full circle
full color
full consent
full cousin
full denture
full development
full dress
full feather
full fig
full flavor
full force
full frame
full gainer
full gallop
full growth
full hand
full house
full length
full linear group
full load
full scope
full score
full sentence
full shot
full size
full skirt
full speed
full speed ahead
full speed astern
full stop
full sun
full swing
full term
full tide
full tilt
full time
full to bursting
full toss
full trailer
full twist
full vowel
full wine
full word
full-accomplished
full-acorned
full-adjusted
full-annealing
full-armed
full-assembled
full-assured
full-attended
full-banked
full-beaming
full-bearded
full-bearing
full-bellied
full-blood
full-blooded
full-bloodedness
full-bloomed
full-blossomed
full-blown
full-bodied
full-bodied flavor
full-boled
full-bore
full-born
full-bosomed
full-bottom
full-bottomed
full-bound
full-bowed
full-brained
full-breasted
full-brimmed
full-buckramed
full-built
full-busted
full-buttocked
full-cell
full-celled
full-centered
full-charge
full-charged
full-cheeked
full-chested
full-chilled
full-clustered
full-colored
full-crammed
full-cream
full-crew
full-crown
full-cut
full-depth
full-diamond
full-diesel
full-digested
full-distended
full-draught
full-drawn
full-dress
full-dress suit
full-dress uniform
full-dressed
full-dug
full-eared
full-edged
full-exerted
full-extended
full-eyed
full-faced
full-fashioned
full-fashioned stockings
full-fatted
full-feathered
full-fed
full-feed
full-feeding
full-felled
full-fidelity speaker
full-figured
full-finished
full-fired
full-flanked
full-flavored
full-fledged
full-fleshed
full-floating
full-flocked
full-flowering
full-flowing
full-foliaged
full-form
full-formed
full-fortuned
full-fraught
full-freight
full-freighted
full-frontal
full-fronted
full-fruited
full-glowing
full-gorged
full-grown
full-haired
full-hand
full-handed
full-happinessed
full-hard
full-haunched
full-headed
full-hearted
full-hipped
full-hot
full-jeweled
full-jointed
full-known
full-laden
full-leather
full-leaved
full-length
full-leveled
full-licensed
full-limbed
full-lined
full-lipped
full-load
full-made
full-manned
full-measured
full-minded
full-moon
full-moon maple
full-mouthed
full-mouthedly
full-natured
full-necked
full-nerved
full-opening
full-orbed
full-out
full-page
full-paid
full-panoplied
full-paunched
full-personed
full-pitch
full-pitch winding
full-plumed
full-power
full-powered
full-proportioned
full-pulsing
full-rayed
full-resounding
full-rigged
full-rigged ship
full-rigger
full-ripe
full-ripened
full-roed
full-run
full-sailed
full-scale
full-scantling vessel
full-sensed
full-sharer
full-shouldered
full-shroud
full-size
full-sized
full-skirted
full-souled
full-speed
full-sphered
full-spread
full-stage
full-statured
full-stomached
full-strained
full-streamed
full-strength
full-stuffed
full-summed
full-swelling
full-term
full-throated
full-tide
full-time
full-time worker
full-timed
full-timer
full-to-full
full-toned
full-top
full-trimmed
full-tuned
full-turn stair
full-tushed
full-uddered
full-value
full-voiced
full-volumed
full-wave
full-wave rectification
full-wave rectifier
full-wave rectifier tube
full-way
full-weight
full-weighted
full-whiskered
full-winged
full-witted
fuller's earth
fuller's teasel
fullering tool
fulling mill
fulling stock
fullness of time
fully developed
fully fashioned
fully fledged
fully realized
fulminate against
fulminating compound
fulminating mercury
fulminating powder
fulminic acid
fulvous tree duck
fumaric acid
fumble-fist
fume chamber
fume cupboard
fumed oak
fumes of fancy
fuming nitric acid
fuming sulfuric acid
fuming sulphuric acid
fumitory family
fun and games
fun fair
fun house
fun-fair
fun-filled
fun-loving
fun-seeking
function as
function class
function shift
function space
function word
functional analysis
functional calculus
functional design
functional disease
functional furniture
functional group
functional housing
functional illiteracy
functional illiterate
functional load
functional nervous disorder
functional psychology
functional psychosis
functional representation
functional shift
functional yield
functionally illiterate
functions of
fund-raising dinner
fundamental bass
fundamental colors
fundamental frequency
fundamental idea
fundamental law
fundamental note
fundamental particle
fundamental sequence
fundamental theorem of algebra
fundamental theorem of calculus
fundamental tone
fundamental unit
funded debt
funding system
funeral car
funeral chapel
funeral church
funeral coach
funeral customs
funeral director
funeral establishment
funeral home
funeral march
funeral oration
funeral parlor
funeral parlour
funeral pile
funeral procession
funeral pyre
funeral ring
funeral rites
funeral sermon
funeral service
funeral song
funeral urn
funeral vessel
funerary customs
funerary urn
funerary vessel
fungi-
fungiform papillae
fungo bat
fungus body
fungus bug
fungus disease
fungus gall
fungus gnat
fungus stone
fungus tinder
fungus-covered
fungus-digesting
fungus-proof
funicular railway
funk hole
funk out
funky chicken
funnel breast
funnel chest
funnel cloud
funnel maker
funnel setter
funnel tube
funnel twister
funnel-breasted
funnel-chested
funnel-fashioned
funnel-formed
funnel-necked
funnel-shaped
funnel-web
funny bone
funny business
funny car
funny farm
funny feeling
funny paper
funny story
funny thing
fur bearer
fur beater
fur blocker
fur blower
fur breeder
fur brigade
fur brasher
fur buyer
fur coat
fur farm
fur farmer
fur farming
fur lining
fur salon
fur seal
fur tanner
fur trader
fur trapper
fur trapping
fur trimming
fur-bearing
fur-capped
fur-clad
fur-coated
fur-collared
fur-cuffed
fur-gowned
fur-lined
fur-lined coat
fur-touched
fur-trimmed
fur-trimmed coat
furbish up
furious rabies
furious rage
furious-faced
furl in a body
furl in the bunt
furnace bricklayer
furnace builder
furnace cadmium
furnace calciner
furnace charger
furnace charging
furnace engineer
furnace erector
furnace feeder
furnace fireman
furnace heating
furnace keeper
furnace liner
furnace lining
furnace maker
furnace mounter
furnace oil
furnace regulator
furnace repairer
furnace stoker
furnace tender
furnace tenter
furnace watcher
furnish accommodations
furnish evidence
furnish support
furniture arrangement
furniture broker
furniture carving
furniture designer
furniture enameler
furniture finisher
furniture fitter
furniture japanner
furniture maker
furniture mover
furniture packer
furniture painter
furniture polish
furniture polisher
furniture porter
furniture repairer
furniture store
furniture turning
furniture van
furor epilepticus
furor loquendi
furor uterinus
furr-ahin
furring brick
furring strip
furrow drain
furrow drainage
furrow draining
furrow irrigation
furrow pan
furrow weed
furrow-cloven
furrow-faced
furrow-fronted
furry creatures
further education
further look
further yourself
fury of desire
fury of lust
fury-driven
fury-haunted
fury-moving
furze lark
furze wren
furze-clad
fusarium wilt
futurity stakes
fuzz cut
fuzz up
fuzz-ball
fuzzy memory
fuzzy-guzzi
fuzzy-haired
fuzzy-headed
fuzzy-legged
fuzzy-wuzzy
g clef
g sol re ut
g suit
g-cal
g-man
g-string
gab pin
gabbro-porphyrite
gaberlunzie-man
gable end
gable roof
gable wall
gable window
gable-bottom
gable-bottom car
gable-end
gable-ended
gable-roofed
gable-shaped
gable-walled
gable-windowed
gaboon mahogany
gad about
gad so
gad-bee
gad-fly
gadget bag
gaff sail
gaff topsail
gaff-headed sail
gaff-rigged
gaff-topsail
gaff-topsail catfish
gaff-topsail pompano
gag law
gag on
gag order
gag press
gall wasp
gall wind
gall-fly
gall-less
gall-like
gall-nut
gall-stone
galla ox
gallant soldier
gallantry under fire
gallery forest
gallery gods
gallery organ
gallery road
galleta grass
galley chase
galley foist
galley halfpenny
galley press
galley proof
galley punt
galley slave
galley slice
galley slug
galley stove
galley worm
galley-fashion
galley-man
galley-slave
galley-tile
galley-west
gallic acid
gallo-
gallo-tannate
gallo-tannic
gallop rhythm
galloper gun
galloping dandruff
galloping dominoes
gallow pulley
gallow tree
gallows balk
gallows bird
gallows bitts
gallows frame
gallows humor
gallows humour
gallows tree
gallows-bird
gallows-grass
gallows-tree
gally tile
galois theory
galvanic battery
galvanic cell
galvanic circle
galvanic circuit
galvanic couple
galvanic current
galvanic electricity
galvanic pile
galvanic shock
galvanic skin response
galvanized iron
galvano-
gama grass
gamba bass
gamba goose
gamba stop
gamben bass
gamble away
gamble on
gamble with
gambling chance
gambling debt
gambling den
gambling device
gambling hall
gambling hell
gambling house
gambling odds
gambling table
gambling wheel
gambo goose
gambo hemp
gamboe yellow
gambrel roof
gambrel stick
gambrel-roofed
game act
game bag
game beast
game bird
game cart
game chips
game debt
game dog
game farmer
game fish
game fowl
game hawk
game hunter
game hunting
game law
game laws
game loser
game of chance
game of skill
game pie
game plan
game point
game preserve
game refuge
game reserve
game room
game sanctuary
game season
game shooting
game theory
game to the backbone
game to the end
game to the last
game warden
game-cock
game-destroying
game-fowl
game-law
gamelan orchestra
games all
games master
games mistress
games of chance
games theory
games-player
gamet-
gameto-
gaming contract
gaming house
gaming room
gaming table
gaming-proof
gamma acid
gamma decay
gamma distribution
gamma function
gamma globulin
gamma infinity
gamma iron
gamma moth
gamma nasal
gamma radiation
gamma radiator
gamma ray
gamma ray counter
gamma rays
gammon iron
gammon-faced
gammon-visaged
gamo-
gander month
gander pull
gandy dancer
gang along
gang around
gang cask
gang center
gang cultivator
gang drill
gang edger
gang hook
gang mill
gang plough
gang plow
gang press
gang punch
gang saw
gang sawyer
gang switch
gang tool
gang tooth
gang up
gang up on
gang up with
gang war
gang warfare
gang week
gang-board
gang-cask
gang-days
gang-flower
gang-plank
garden mint
garden mold
garden nasturtium
garden nightshade
garden of the Gods
garden of the Hesperides
garden orach
garden orpine
garden party
garden path
garden patience
garden pepper
garden pepper cress
garden peppergrass
garden persicary
garden phlox
garden pink
garden plague
garden plow
garden poppy
garden portulaca
garden purslane
garden rocket
garden roller
garden sage
garden sauce
garden sculpture
garden seat
garden snail
garden sorrel
garden spade
garden speedwell
garden spider
garden spot
garden spurge
garden suburb
garden syringa
garden tickseed
garden trowel
garden truck
garden valerian
garden variety
garden verbena
garden violet
garden wall
garden warbler
garden webworm
garden white
gas fittings
gas fixture
gas focusing
gas furnace
gas gangrene
gas generator
gas grenade
gas harmonicon
gas heat
gas heater
gas heating
gas helmet
gas jet
gas lamp
gas law
gas laws
gas lighter
gas lime
gas liquor
gas log
gas machine
gas main
gas mantle
gas mask
gas meter
gas motor
gas oil
gas oven
gas phlegmon
gas phototube
gas pipe
gas plant
gas plate
gas pliers
gas poker
gas polarization
gas producer
gas propulsion
gas range
gas refrigeration
gas refrigerator
gas ring
gas sand
gas separator
gas shaft
gas shell
gas spectrum
gas spurts
gas station
gas stove
gas tank
gas tap
gas tar
gas thermometer
gas thread
gas trap
gas tube
gas turbine
gas turbine engine
gas turbine jet engine
gas up
gas vent
gas warfare
gas washer
gas water
gas welder
gas welding
gas well
gas zone
gas-absorbing
gas-bag
gas-burning
gas-charged
gas-check
gas-cooled reactor
gas-delivering
gas-discharge lamp
gas-driven
gas-electric
gas-filled
gas-filled tube
gas-fired
gas-fitter
gas-fitting
gas-heat
gas-heated
gas-laden
gas-lampy
gas-light
gas-liquid chromatography
gas-operated
gas-oxygen
gas-plant
gas-producing
gas-propelled
gas-resisting
gas-retort
gas-shaft hood
gas-testing
gaseous envelope
gaseous environment
gaseous medium
gaseous nebula
gaseous state
gash vein
gash-gabbit
gaslight paper
gasoline engine
gasoline gas
gasoline lantern
gasoline locomotive
gasoline propulsion
gasoline shovel
gasoline stove
gasoline tax
gasoline truck
gasoline-electric
gasoline-propelled
gaster-
gastr-
gastrea theory
gastric antacid
gastric digestion
gastric glands
gastric juice
gastric lavage
gastric ulcer
gastro-
gastro-omental
gastrocolic omentum
gastrohepatic omentum
gastrointestinal disease
gastrointestinal tract
gat-toothed
gate bill
gate channel
gate hinge
gate leg
gate money
gate net
gate pin
gate receipts
gate road
gate shear
gate shears
gate table
gate tower
gate valve
gate wheel
gate, the
gate-crash
gate-crasher
gate-keeper
gate-leg
gate-leg table
gate-legged
gate-legged table
gate-netting
gate-post
gateleg table
gatelegged table
gather around
gather courage
gather flesh
gather head
gather in
gather into barns
gather knowledge
gather learning
gather materials
gather to yourself
gather together
gather up
gather way
gather your thoughts
gathered to his fathers
gathering clouds
gathering coal
gathering evidence
gathering hoop
gathering iron
gathering locomotive
gathering machine
gathering of the clouds
gathering pallet
gathering peat
gathering place
gathering reel
gathering ring
gathering rod
gathering shot
gathering table
gatling gun
gaub line
gaude lake
gaudy-day
gaudy-green
gaufre iron
gauge block
gauge board
gauge cock
gauge concussion
gauge die
gauge door
gauge glass
gauge increment
gauge knife
gauge lath
gauge lathe
gauge line
gauge notch
gauge pile
gauge pin
gauge plate
gauge point
gauge saw
gauge stick
gauge stuff
gauge tolerance
gauge weir
gauge wheel
gauged pile
gauging plaster
gaultheria oil
gaunt-bellied
gauze ring
gauze tree
gauze weave
gauze-winged
gavel bread
gavel corn
gavel earth
gavel swine
gay as a lark
gay dance
gay deceiver
gay dog
gay liberation
gay-beseen
gay-chirping
gay-colored
gay-feather
gay-flowered
gay-glancing
gay-green
gay-hued
gay-humored
gay-looking
gay-motleyed
gay-painted
gay-seeming
gay-smiling
gay-spent
gay-spotted
gay-tailed
gay-throned
gaze at
gaze open-mouthed
gaze upon
gaze-hound
gazelle brown
gazelle hound
gazelle-boy
gazelle-eyed
gazer-on
gazetted officer
gazing ball
gazing-stock
ge-
gear box
gear brusher
gear case
gear cutter
gear down
gear fitter
gear forger
gear hobber
gear lever
gear maker
gear miller
gear oiler
gear pump
gear ratio
gear roller
gear shaper
gear shifter
gear to
gear train
gear up
gear wheel
gear-cutting
gear-driven
gear-operated
gear-wheel pump
geread-head lathe
gearing chain
gearless traction
gee ho
gee pole
gee string
gee up
gee up!
gee whillikins
gee whiz
gee whizz
gee-gee
gee-haw
gee-throw
gee-up
gefillte fish
gefilte fish
gefullte fish
gefulte fish
gegen-ion
gehockte leber
geigen principal
geger counter
geger tree
geger-muller tube
geil fine
gesha girl
gel filtration

gel mineral
gelada baboon
gelatin dynamite
gelatin emulsion
gelatin filter
gelatin maker
gelatin molder
gelatin process
gelatin slide
gelatin-coated
gelatino silver bromide
gelatino-
gem carver
gem cutter
gem cutting
gem designer
gem engraver
gem fancier
gem grinder
gem jade
gem list
gem of the first water
gem peg
gem setter
gem stick
gem stone
gem stones
gem-bearing
gem-bedewed
gem-bedizened
gem-bespangled
gem-bright
gem-cutting
gem-decked
gem-engraving
gem-faced
gem-fruit
gem-grinding
gem-set
gem-spangled
gemel bar
gemel bottle
gemel hinge
gemel ring
gemel window
gemma cup
gen up
gen-
genappe yarn
gendarme blue
gene complex
gene flow
gene frequency
gene mutation
gene pool
gene-string
genealogical tree
general acclamation
general adaptation syndrome
general agent
general agreement
general anaesthetic
general anesthetic
general assembly
general aviation
general belief
general confession
general consent
general court
general court-martial
general delivery
general demurrer
general dentistry
general dictionary
general discharge
general education
general election
general expenses
general headquarters
general hospital
general idea
general information
general knowledge
general lien
general linguistics
general medicine
general mortgage bond
general obligation bond
general of the air force
general of the armies
general of the army
general officer
general order
general orders
general paralysis
general paralysis of the insane
general paresis
general partner
general partnership
general post office
general practice
general practitioner
general precession
general principle
general prior
general public
general reconnaissance
general reference map
general rule
general run
general semantics
general servant
general sessions
general solution
general staff
general store
general strike
general studies
general surgery
general theory of relativity
general truth
general uprising
general voice
general war
general will
general-duty nurse
general-purpose
generalized coordinates
generalized other
generalized proposition
generally accepted
generally admitted
generally capable
generally speaking
generate electricity
generating station
generating tone
generation gap
generation of man
generative cell
generative grammar
generative semantics
generator gas
generator unit
generic name
generic resemblance
genethliac astrology
genetic code
genetic disease
genetic drift
genetic engineering
genetic fallacy
genetic individual
genetic method
genetic psychology
genetically related
geneva bands
geneva convention
geneva cross
geneva gown
genio-
genitive absolute
genito-
genius domus
genius familiae
genius for
genius loci
genius tutelae
gen-
genoa foresail
genoa jib
genre painter
genre painting
gens d'armerie
genteel comedian
genteel comedy
genteel poverty
gentian blue
gentian family
gentian root
gentian violet
gentianic acid
gentle-falcon
gentility manners
genill-
genisic acid
genle art
genle as a lamb
genle breeze
genle contact
genle craft
genle hint
genle melancholy
genle sex
genle sleep
genle slope
genle wind
genle-born
genle-bred
genle-browed
genle-eyed
genle-handed
genle-handedly
genle-handedness
genle-looking
gentle-mannered
gentle-manneredly
gentle-manneredness
gentle-minded
gentle-mindedly
gentle-mindedness
gentle-natured
gentle-naturedly
gentle-naturedness
gentle-spoken
gentle-spokenly
gentle-spokenness
gentle-voiced
gentle-voicedly
gentle-voicedness
gentleman farmer
gentleman friend
gentleman of fortune
gentleman of leisure
gentleman of the press
gentleman of the road
gentleman's agreement
gentleman's gentleman
gentleman's lounge
gentleman's roo
gentleman-adventurer
gentleman-agent
gentleman-at-arms
gentleman-beggar
gentleman-cadet
gentleman-commoner
gentleman-covenanter
gentleman-dependent
gentleman-digger
gentleman-farmer
gentleman-jailer
gentleman-jockey
gentleman-lackey
gentleman-lodger
gentleman-murderer
gentleman-pensioner
gentleman-porter
gentleman-priest
gentleman-ranker
gentleman-recusant
gentleman-rider
gentleman-scholar
gentleman-sewer
gentleman-tradesman
gentleman-usher
gentleman-vagabond
gentleman-volunteer
gentleman-waiter
gentlemen's agreement
gentlemen-at-arms
gentlemen-commoners
gentlemen-farmers
gentlemen-pensioners
gentoo penguin
genu valgum
genuine object
genus Homo
geo probe
geo-
geo-navigation
geo-centric longitude
geo-centric parallax
geo-desic dome
geo-desic geometry
geo-desic line
geo-detic engineer
geo-detic engineering
geo-detic longitude
geo-detic satellite
geo-detic survey
geo-detic surveying
geo-graphic determinism
geo-graphic environment
geo-graphic longitude
geo-graphic range
geo-graphical determinism
geo-graphical dictionary
geo-graphical mile
geo-graphically limited
geo-id-spheroid
geo-id-spheroid balance
geo-logic time
geo-logical chemistry
geo-logical dictionary
geo-logical engineer
geo-logical engineering
geo-logical time periods
geo-metric figure
geo-metric isomerism
geo-metric mean
geo-metric pace
geometric progression
geometric proportion
geometric ratio
geometric series
geometrical horizon
gemotactical lathe
gemotactical optics
gemotactical pace
gemotactical pitch
gemotactical progression
gemotactical stair
gemophysical satellite
gemorgia pine
gemostrophic wind
gemotectonic geology
gemanium creeper
gemanium family
gemanium lake
gemanium oil
gemanium pink
gemiatric disease
gemr breeder
gemr cell
gemr destroyer
gemr disease
gemr disk
gemr gland
gemr layer
gemr nucleus
gemr pathology
gemr peg
gemr plasm
gemr plasma
gemr pore
gemr spot
gemr stock
gemr theory
gemr track
gemr tube
gemr warfare
gemr-forming
gemman baptist brethren
gemman cotillion
gemman measles
gemman shepherd
gemman silver
gemander chickweed
gemander sage
germander speedwell
germanium crystal triode
germanium oxide
germanium triode
germano-
gemicidal lamp
germinal area
germinal disc
germinal disk
germinal imagination
germinal vesicle
germinate from
geront-
geront-
gerrymandered district
gerund grinder
gerund grindery
gerund grinding
gerund phrase
ges-warp
gestalt psychology
gestalt therapy
gestatorial chair
gesture calligraphist
gesture calligraphy
gesture language
gesture painting
get a bang out of
get a bead on
get a boot out of
get a break
get a bun on
get a charge out of
get a corner on
get a cropper
get a fix
get a foothold
get a footing
get a glimpse of
get a good pennyworth
get a head start
get a hold on
get a hustle on
get a kick out of
get a leg up on
get a lift out of
get a load of
get a loan
get a move on
get a navigational fix
get a noseful of
get a purchase
get a reaction
get a reading
get a response
get a rise out of
get a sense
get a sounding
get a stranglehold on
get a whiff of
get a wiggle on
get a wrong impression
get about
get abroad
get acquainted
get acquire
get across
get afloat
get ahead
get ahead of
get all balled up
get all bollixed up
get all in a lather
get all snarled up
get all tangled up
get all wound up
get along
get along in years
get along on
get along with
get along with you
get along without
get an agent
get an earful
get an eyeful of
get an impression
get an income
get anywhere
get around
get at
get at the ear of
get away
get away from
get away with
get away with it
get away with murder
get back
get back at
get back in shape
get back to earth
get before
get behind
get better
get bogged down
get busy
get by
get by heart
get by hook or by crook
get by on
get by osmosis
get by rote
get chummy with
get clear of
get cold feet
get cozy with
get cracking
get cutting
get done
get down
get down cold
get down from your high horse
get down on your hunkers
get down on your knees
get down on your marrowbones
get down pat
get down to brass tacks
get down to business
get down to cases
get down to nuts and bolts
get drunk
get even
get even with
get excited
get excited about
get exposure
get for free
get for your pains
get free
get free of
get fresh
get from
get funny
get going
get heads together
get hep to
get hers
get high
get high on
get his
get hitched
get hold of
get hold of an idea
get hold of yourself
get home free
get hot under the collar
get huffy
get hung up
get in
get in a bind
get in a box
get in a hole
get in a jam
get in a mess
get in a pincers
get in a rut
get in a word edgewise
get in back of
get in behind
get in connection with
get in contact with
get in formation
get in front of
get in good with
get in hot water
get in line
get in on the ground floor
get in the act
get in the family way
get in the good graces of
get in the harvest
get in the soup
get in the swim
get in there
get in touch with
get in with
get in wrong
get in your hair
get in your own way
get income
get into
get into a dither
get into a pucker
get into a scrape
get into a stew
get into a swivet
get into a tizzy
get into debt
get into favor
get into harness
get into line
get into mischief
get into the way of
get into trouble
get into your clutches
get into your grasp
get into your head
get into your hold
get into your possession
get into your thick head
get it
get it coming and going
get it in the neck
get it into your head
get it off your chest
get it off your mind
get it out of your system
get it out on
get it over
get it over with
get justice
get killed
get knowledge
get left
get letter-perfect
get leverage
get loose
get lost
get mad
get married
get miffed
get mired
get mired down
get moving
get next to
get next to someone
get no better fast
get no place fast
get nowhere
get off
get off a joke
get off cheap
get off on the right
get off scot-free
get off the ground
get off the subject
get off the track
get off to a good start
get off your back
get on
get on credit
get on film
get on good terms with
get on in the world
get on in years
get on out
get on swimmingly
get on the ball
get on the bandwagon
get on the cuff
get on the good side of
get on the in with
get on the job
get on the right side of
get on the wagon
get on the water wagon
get on tick
get on to
get on top
get on trust
get on well
get on well with
get on with
get on your high horse
get on your nerves
get one wrong
get onto
get organized
g et out
get out a sheet-anchor
get out of
get out of bed
get out of commission
get out of gear
get out of here
get out of joint
get out of kilter
get out of kilter
get out of line
get out of order
get out of the way of
get out of whack
get out of your depth
get over
get over the ground
get over with
get pickled
get plastered
get quit of
get quits with
get ready
get ready to
get red in the face
get religion
get rich
get rid of
get right
get round
get satisfaction
get scent of
get sea room
get set
get set for
get shet of
get shut of
get sidetracked
get smart
get some air
get some sack time
get some shut-eye
get something out of your system
get sore
get square with
get squared away
get taped
get the advantage
get the air
get the ax
get the best of
get the better of
get the breaks
get the control of
get the drift
get the drop on
get the ear of
get the edge on
get the facts
get the floor
get the gate
get the hang of
get the hell out
get the idea
get the impression
get the jump on
get the knack of
get the lay of the land
get the lead out
get the lead out of your ass
get the lie of the land
get the mastery of
get the meaning of
get the picture
get the power into your hands
get the show on the road
get the start
get the upper hand
get the works
get the worst of it
get there
get things into proportion
get through
get through to
get through with
get through your head
get through your thick head
get tired
get to
get to be
get to do
get to first base
get to know one another
get to the bottom of
get to the core
get to the essence
get to the nub
get to your feet
get together
get together with
get too big for your breeches
get top billing
get under way
get under your skin
get up
get up and go
get up early
get up in
get up late
get up nerve
get up on
get up steam
get used to
get warm
get well
get well out of
get what is coming to one
get wind of
get wind up
get wise to
get with child
get with it
get with young
get worse
get wrong
get you down
get you gone
get your Irish up
get your ass in a bind
get your ass in gear
get your back up
get your bearings
get your blood up
get your comeuppance
get your credentials
get your dander up
get your deserts
get your dues
get your feet on the ground
get your feet wet
get your fingers on
get your goat
get your gorge up
get your hands on
get your hopes up
get your mad up
get your money's worth
get your monkey up
get yourself a deal
get yourself in a sulk
get-at-ability
get-at-able
get-at-ableness
get-away
get-away speed
get-off
get-out
get-together
get-tough
get-up
get-up-and-get
get-up-and-go
getah wax
getet out
getting along
getting along in years
getting around
getting even
getting hold of
getting on
getting on in years
getting rid of
getting round
getting the hell out
getting with child
geyser basin
geyser cone
gharry-wallah
ghatti gum
ghetto-dwellers
ghost candle
ghost crab
ghost daemon
ghost dance
ghost edition
ghost food
ghost god
ghost gum
ghost hole
ghost line
ghost lodge
ghost lore
ghost moth
ghost name
ghost of a great name
ghost plant
ghost shrimp
ghost soul
ghost story
ghost town
ghost word
ghost world
ghost writer
ghost-fearing
ghost-filled
ghost-haunted
ghost-ridden
ghost-weed
ghost-writer
giallo antico
giant arrowhead
giant bamboo
giant bass
giant cane
giant chinquapin
giant crab
giant daisy
giant fennel
giant fescue
giant fulmar
giant garlic
giant granadilla
giant ground sloth
giant holly fern
giant hornet
giant killer
giant lily
giant lizard
giant of learning
giant order
giant panda
giant parsnip
giant petrel
giant planet
giant powder
giant ragweed
giant reed
giant rye grass
giant schnauzer
giant sea bass
giant sequoia
giant silkworm moth
giant size
giant slalom
giant sloth
giant snowdrop
giant star
giant step
giant steps
giant stride
giant sunflower
giant tortoise
 giant water bug
giant-like
giant-sized
 gib fish
 gib plate
 gib-cat
 gib-head
 gib-head key
 gibbed cat
 gibber bird
 gibberelic acid
 gibberellic acid
 gibbet law
 gibbet tree
 gibble-gabble
 gibble-gabbler
 gibboso-
gibbous moon
 gibby stick
 gibe at
 gibing retort
 giblet-check
 giblet-checked
 giblet-cheek
 gibus hat
 giddy as a goose
 giddy-brained
 giddy-drunk
 giddy-go-round
 giddy-headed
 giddy-paced
 giddy-pated
 giddy-witted
 gier-eagle
 giff-gaff
 gift balsam
 gift certificate
 gift for
 gift of expression
 gift of gab
 gift of the gab
 gift of tongues
 gift rope
 gift shop
 gift tax
 gift with
 gift wrap
gin-mill
gin-palace
gin-run
gin-saw
gin-saw file
gin-shop
gin-sling
gingelly oil
ginger ale
ginger beer
ginger bleacher
ginger bread
ginger buyer
ginger extract
ginger family
ginger grass
ginger group
ginger jar
ginger lily
ginger nut
ginger oil
ginger pine
ginger plant
ginger pop
ginger punch
ginger quill
ginger root
ginger snap
ginger spice
ginger tea
ginger up
ginger wine
ginger-beer
ginger-beery
ginger-color
ginger-colored
ginger-faced
ginger-grass oil
ginger-hackled
ginger-haired
ginger-pop
ginger-red
gingebread man
gingebread nut
gingebread palm
gingebread plum
gingebread tree
gingili oil
gingiv-
ginkgo nut
ginny carriage
ginny-carriage
ginseng family
gipsy capstan
gipsy moth
gipsy winch
giraffe camel
girandole clock
girasol thorn
gird up your loins
gird your loins
girder bridge
girder erector
girder rail
gider riveter
girder stay
gider tool
girdle band
girdle bone
girdle pain
girdle sensation
girdle the globe
girdle wheel
girdle-tailed lizard
girl Friday
girl Fridays
girl friday
girl friend
girl guide
girl next door
girl scout
girl show
girl-o
girl-os
girl-shy
girl-watcher
girls' room
girly show
girt-line
girth web
girth-web
give 'em hell
give a
give a Roland for an Oliver
give a bad name
give a bad time to
give a bawling out
give a beating
give a big hand
give a bit of your mind
give a black eye
give a black mark
give a blank check
give a boost
give a boost to
give a bouquet
give a briefing
give a bum steer
give a buzz
give a cheer
give a color to
give a cursory look
give a damn
give a darn
give a dekko
give a direct order
give a dirty look
give a dog a bad name
give a dose of birch oil
give a dose of hazel oil
give a dose of hickory oil
give a dose of strap oil
give a dressing-down
give a fair shake
give a false alarm
give a false coloring
give a false idea
give a false impression
give a figure to
give a fillip to
give a fling
give a for-instance
give a free course to
give a free hand
give a free translation
give a go
give a going-over
give a good
give a good account of yourself
give a guess
give a hand
give a hearing to
give a helping hand
give a hint
give a job to
give a knockdown
give a leg up
give a lesson
give a lesson to
give a lick and a promise
give a lift
give a loose translation
give a miss to
give a nod of assent
give a party
give a performance
give a piece of advice
give a piece of your mind
give a pointer to
give a posy
give a promise
give a quick look
give a quid pro quo
give a rap on the knuckles
give a raw deal
give a report
give a reprieve
give a ring
give a shout of laughter
give a show
give a shriek of laughter
give a sidelong look
give a signal
give a square deal
give a start
give a suggestion
give a surprise party
give a talk
give a thrashing
give a thrill
give a tone to society
give a transfusion
give a trial to
give a try
give a tryout
give a turn to
give a twist to
give a warm reception to
give a whammy
give a whipping
give a whirl
give a wide berth
give a wide berth to
give a willing ear
give a workout
give a write-up
give a wrong idea
give absolution
give acknowledgment
give admittance to
give advance notice
give air to
give an account of
give an alarm
give an appreciation
give an assignment
give an assist
give an ear
give an encore
give an entree
give an examination
give an exclamation
give an idea of
give an impetus
give an impression of
give an impulse to
give an inch and take an ell
give an inkling of
give an introduction
give an obolus to Charon
give an open mandate
give an opinion
give an order
give and take
give answer
give as a gift
give as an excuse
give as good as was sent
give as good as you get
give as much as you take
give assent
give attention
give audience to
give away
give back
give battle
give being to
give benediction
give birth
give birth to
give bridle to
give by way of information
give care to
give carte blanche
give chase
give cheerfully
give comfort
give concern
give confidential information
give consent
give credence to
give credit
give credit to
give danger a wide berth
give directions
give directions to
give dispensation from
give ear
give ear to
give emphasis to
give encouragement
give entrance to
give evidence
give expression
give expression to
give fair warning
give faith to
give for free
give forgiveness
give forth
give forth a sound
give free course to
give free play to the emotions
give free rein to
give freely
give full authority
give full particulars
give full play
give full power
give good reasons for
give good returns
give greater draft fore and aft
give ground
give ground for expecting
give hail Columbia
give heed
give heed to
give hell
give help
give her beans
give her less rudder
give her more rudder
give homework
give honor to
give hope
give importance to
give in
give in charge
give in exchange
give in kind
give in marriage
give in return
give in trust
give indication of
give instruction
give instructions
give it a go
give it a second thought
give it all your got
give it no more thought
give it the gas
give it the gun
give it to
give it your all
give leave
give lessons in
give life to
give light
give line
give lip service
give little weight to
give measure for measure
give mind to
give momentum
give moral support to
give more matter and less art
give more than your share
give mouth honor
give new life to
give no cheer
give no comfort
give no credence to
give no credit to
give no heed
give no joy
give no pleasure
give no quarter
give no trouble
give notice
give notification
give occasion to
give of
give of your substance
give of yourself
give off
give off waves of heat
give offense
give offense to
give official sanction
give official warrant
give one a scare
give one a turn
give one line
give onto
give or take a little
give origin to
give out
give out a smell
give out with
give over
give over to
give pain
give pause
give permission
give place
give place to
give pleasure
give power
give prominence
give prospect of
give publicity
give quarter
give reason for
give recognition
give refuge to
give rein to
give release
give relief
give respite
give rise to
give rope enough to
give salvation
give sanctuary to
give satisfaction
give security
give shelter to
give sign
give someone a dose
give someone enough rope
give someone his due
give someone the eye
give someone the slip
give someone your hand on
give something the gun
give sorrow words
give special attention to
give support
give surcease
give texture
give thanks
give the
give the Bronx cheer
give the Devil his due
give the air
give the asking price
give the ax
give the ax to
give the battle cry
give the benefit of the doubt
give the bird
give the bum's rush
give the business
give the chuck to
give the coat off your back
give the cold shoulder
give the cold shoulder to
give the come-on
give the cue
give the deuce
give the devil
give the evil eye
give the eye
give the facts
give the feeling of
give the finishing strokes
give the finishing touches
give the freedom of
give the gate
give the glad eye
give the glad hand
give the go-ahead
give the go-by
give the good word
give the green light
give the guy to
give the high sign
give the hook
give the imprimatur
give the kiss of death to
give the lie to
give the meaning
give the mind to
give the nod
give the old heave-ho
give the once-over
give the pink slip
give the quietus
give the quietus to
give the raspberry
give the reins to
give the run of
give the runaround
give the sack to
give the shirt off your back
give the shoulder
give the show away
give the silent treatment
give the slip
give the stick
give the word
give the word of command
give the works
give thought to
give thumbs up
give tick
give tidings of
give tit for tat
give title to
give to
give to the world
give token
give tongue
give top billing to
give umbrage
give until it hurts
give up
give up all expectation
give up all hope
give up hope
give up the crown
give up the ghost
give up your post
give upon
give utterance
give vent to
give voice
give warning
give way
give way to
give way to tears
give what-for
give with an open hand
give with both hands
give witness
give word
give word for word
give words to
give you
give you a bad time
give you a bang
give you a bellyful
give you a blank check
give you a boot
give you a charge
give you a fright
give you a hard time
give you a kick
give you a lift
give you a pain
give you a revelation
give you a scare
give you a send-off
give you a swift pain in the ass
give you a tip
give you a turn
give you a whammy
give you another chance
give you carte blanche
give you gooseflesh
give you his gruel
give you his head
give you his walking papers
give you leeway
give you room
give you rope
give you scope
give you short shrift
give you space
give you the evil eye
give you the glad eye
give you the lie
give you the lie direct
give you the lie in your throat
give you the lip
give you the run-around
give you the slip
give you the works
give you tit for tat
give you to understand
give you trouble
give you what is coming to you
give you your comeuppance
give you your deserts
give your best
give your best regards
give your blessing
give your blessing to
give your compliments
give your countenance to
give your eyeteeth
give your eyeteeth for
give your fair share
give your hand to
give your kingdom in hell for
give your life for your country
give your love
give your mind to
give your parole
give your regards
give your share
give your support to
give your thanks
give your undivided attention
give your voice for
give your word
give your word of honor
give yourself airs
give yourself for
give yourself over to
give yourself over to pleasure
give yourself up
give yourself up to
give yourself up to reverie
give-and-take
give-up
giveaway show
given a jar
given a jolt
given a turn
given birth
given fact
given name
given to
given to drink
given up
given up for dead
giver-out
giving back
giving birth
giving in
giving out
giving over
giving up
giving way
gizzard shad
gizzard trout
glacial acetic acid
glacial boulder
glacial deposit
glacial epoch
glacial lake
glacial meal
glacial milk
glacial movement
glacial period
glacier bear
glacier cataract
glacier lily
glacier milk
glacier table
glacier theory
glacis plate
glad eye
glad hand
glad hand, the
glad rags
glad tidings
glad to see you
glad-cheered
glad-flowing
glad-hand
glad-handed
glad-hander
glad-sad
glass painting
glass pot
glass pox
glass printing
glass sculpture
glass snail
glass snake
glass soap
glass string
glass tank
glass wool
glass-blower
glass-blowing
glass-bottomed
glass-bottomed boat
glass-built
glass-cabin launch
glass-cloth
glass-coach
glass-coated
glass-colored
glass-covered
glass-cutter
glass-cutting
glass-eater
glass-eyed
glass-faced
glass-fronted
glass-glazed
glass-green
glass-hard
glass-house
glass-lined
glass-maker
glass-man
glass-paneled
glass-paper
glass-topped
glass-work
glassed-in
glasses case
glassy-eyed
glauber's salt
glaucous blue
glaucous gray
glaucous green
glaucous gull
glaucous-green
glaucous-winged
glaze frost
glaze ice
glaze kiln
glaze wheel
glazed doughnut
glazed frost
glazed ware
glazier's point
glazing bar
glazing bead
glazing brad
glazing-bar
gleam of hope
gleam of light
gleaming smile
glean knowledge
glean learning
glebe house
glebe land
glee club
glee-eyed
glen nymph
gleno-
glial cells
glib tongue
glib-gabbet
glib-tongued
glide bomb
glide consonant
glide into
glide landing
glide path
glide plane
glide vowel
glide-bomb
glide-bombing
glider bomb
glider train
gliding angle
gliding boat
gliding joint
gliding machine
glimmer gowk
glimmer of hope
glimmering goal
glitter ice
glittering generality
gloat on
gloat over
gloating pleasure
global rule
global war
globe amaranth
globe animalcule
globe artichoke
globe crowfoot
globe daisy
globe dollar
globe hyacinth
globe joint
globe lightning
globe lily
globe mallow
globe ranunculus
globe sight
globe thistle
globe tulip
globe valve
globe-girdler
globe-girdling
globe-shaped
globe-trot
globe-trotter
globe-trotting
glabigerina ooze
globo-cumulus
globular cluster
globular lightning
globus hystericus
globus pallidus
glom on to
gloomy Gus
gloomy outlook
gloomy-browed
gloomy-faced
glor-fat
glorify the Lord
glory be
glory be to
glory be to God
glory be to God in the highest
glory bower
glory box
glory flower
glory hole
glory in
glory lily
glory pea
glory to God
glory tree
glory vine
glory-hole
glory-of-the-snow
glory-of-the-snows
glory-of-the-sun
glory-of-the-suns
glory-pea
gloss of novelty
gloss oil
gloss over
gloss-
glzzo-
glossopalatine arch
glossopalatine nerve
glossopharyngeal nerve
glossopharyngeal neuralgia
glossy snake
glossy-black
glossy-leaved
glossy-white
glost fire
glost fireman
glost firing
glost oven
glost placer
glost-fired
glott-
glottal stop
glotto-
glove box
glove compartment
glove contest
glove grain
glove maker
glove money
glove puppet
glove silk
glove silver
glove sponge
glove stitch
glover's stitch
glow beetle
glow discharge
glow discharge tube
glow lamp
glow light
glow lighting
glow meter
glow plug
glow tube
glow-discharge microphone
glow-worm
glowering look
glowing health
glowing smile
gloze over
glucaric acid
gluck-gluck
gluckliche Reise
gluconic acid
glucose sirup
glucose vinegar
glucuronic acid
glue boiler
glue bottle
glue brush
glue cell
glue maker
glue on
glue plant
glue sniffer
glue stock
glue the mind to
glue water
glue-pot
glued-up
gluing-off
glut herring
glut on the market
glut-
glutamic acid
glutaminic acid
gluteal region
glutei maximi
gluten bread
gluten feed
gluten flour
gluten meal
gluteus maximus
gluteus medius
gluteus minimus
glutton bird
glyc-
glycer-
glyceria wax
glyceric acid
glyceric aldehyde
glycerin jelly
glycerin lye
glycerin soap
glyceric-
glycerol nitrate
glyceryl ester
glyceryl esters
glyceryl group
glyceryl monoacetate
glyceryl nitrate
glyceryl radical
glyceryl trinitrate
glyceryl trioleate
glyceryl tripalmitate
glyco-
glycogen disease
glycogenic acid
glycolic acid
glycollic acid
glyconic acid
glycuronic acid
glycyrrhizae composita
glyoxyl urea
glyptic artist
glyptographic artist
gamma hole
gnash your teeth
gnashing of teeth
gnat hawk
gnath-
gnathic index
gnaw at the root of
gnaw away
gnawing of the bowels
gnawing pain
gneissoid-granite
gnome owl
gnomonic projection
gnothi seauton
gnu goat
go AWOL
go Dutch
go a journey
go aboard
go about
go about your business
go abroad
go across
go adrift
go after
go against
go against the grain
go aground
go ahead
go ahead of
go all colors
go all lengths
go all out
go all the way
go aloft
go along
go along with
go along with the crowd
go alongside
go amiss
go and
go and do
go and get
go and hang yourself
go ape
go ape over
go around
go around and around
go around in circles
go as
go as the crow flies
go as you please
go ashore
go ass over elbows
go astern
go astray
go astray from
go at
go at a snail's pace
go at flank speed
go at full blast
go at full steam
go at full tilt
go at it ass-backwards
go at large
go at liberty
go at the double
go away
go awol
go awry
go back
go back on
go back on your word
go back over
go back to
go backwards
go bad
go bail
go bail for
go bananas
go bankrupt
go beddy-bye
go before
go begging
go behind
go below
go berserk
go beside
go between
go beyond
go beyond reason
go beyond the bounds of reason
go blind
go broke
go bush
go by
go by air
go by airline
go by fits and starts
go by plane
go by rail
go by ship
go by the board
go by the name of
go bye-bye
go cahoots
go cahoots with
go camping
go cap in hand to
go chase yourself
go contrary to
go counter to
go crabwise
go crackers
go crazy
go dead
go dead slow
go deaf
go deep
go deep into
go directly

go down

go down in the world

go down like a stone

go down on your knees to

go down the drain

go down to the sea in ships

go down with flying colors

go downhill

go easily

go easy

go easy on

go even stephen

go even stephen with

go far

go far afield

go fast

go fetch

go fifty-fifty

go fifty-fifty with

go fish

go fishing

go flat out

go fly a kite

go for

go for a Sunday drive

go for a burton

go for a drive

go for a ride

go for a spin

go for a walk

go for an airing

go for an outing

go for broke

go for the deck

go foreign

go forth

go forward

go free

go from bad to worse
go from home
go from push to shove
go full speed ahead
go full speed astern
go full steam ahead
go full tilt at
go gauge
go get
go great guns
go gunning for
go halvers
go halvers with
go halves
go hand in hand
go hand in hand with
go hard with
go haywire
go head over heels
go hell-bent for election
go home
go home feet first
go hungry
go hunting
go ill with
go in
go in advance
go in bathing
go in business for yourself
go in cahoot with
go in cahoots
go in debt
go in for
go in harm's way
go in hock
go in hock for
go in one ear and out the other
go in opposition to
go in partners
go in partnership
go in peace
go in pursuit of
go in search of
go in swimming
go in the face of
go in the lead
go in the rear of
go in wading
go in with
go into
go into a funk
go into a huddle
go into a tail spin
go into a tailspin
go into a tantrum
go into convulsions
go into decay
go into detail

go into heart and soul

go into hiding

go into hysterics

go into litigation

go into mourning

go into orbit

go into outer space

go into partnership with

go into raptures

go into receivership

go into retirement

go into reverse

go into seclusion

go into shock

go into the money market

go into training

go into your pocket

go it alone

go jump in the lake

go kaput

go lame

go light

go like

go like a bat out of hell

go like a flash

go like a shot

go like a streak of lightning

go like clockwork

go like greased lightning

go like hot cakes

go like lightning

go like the wind

go long

go mad

go maku

go marketing

go native

go near

go night-night
go off
go off at a tangent
go off at half cock
go off half-cocked
go off in all directions at once
go off on a tangent
go off soundings
go off the air
go off the deep end
go off the track
go off the trolley
go off to sleep
go off your head
go off your nut
go off your rocker
go on
go on a bat
go on a bender
go on a binge
go on a bust
go on a crusade
go on a crusade against
go on a diet
go on a drunk
go on a honeymoon
go on a journey
go on a pilgrimage
go on a rampage
go on a rip
go on a sight-seeing trip
go on a spending spree
go on a spree
go on a tear
go on a toot
go on a trip
go on a voyage
go on a wartime footing
go on a wild-goose chase
go on a wrong tack
go on about
go on all fours
go on all fours with
go on an ego trip
go on an expedition
go on and on
go on bended knee to
go on board
go on forever
go on furlough
go on hands and knees
go on horseback
go on in the old jog-trot way
go on leave
go on over
go on parade
go on record
go on safari
go on shipboard
go on strike
go on the air
go on the blink
go on the bum
go on the defensive
go on the fritz
go on the heel and toe
go on the merry-go-round
go on the road
go on the rocks
go on the shoals
go on the stump
go on the town
go on the warpath
go on tick
go on tiptoe
go on welfare
go on with
go on with the show
go on your beat
go once over lightly
go one better
go onto
go onwards and upwards
go out
go out for
go out like a lamb
go out like a light
go out of bounds
go out of business
go out of line
go out of style
go out of the way
go out of use
go out of your depth
go out of your skull
go out of your way
go out on a limb
go out on strike
go out the window
go out with
go out with the ebb
go out with the tide
go over
go over again and again
go over and over
go over big
go over like a lead balloon
go over step by step
go over the board
go over the ground
go over the hill
go over the same ground
go over the side
go over the top
go over the wall
go over to the enemy
go over to the great majority
go over to the majority
go over your head
go overboard
go overseas
go partners
go peddle your fish
go phut
go pitapat
go pitter-patter
go places
go places and do things
go public
go right through
go roll your hoop
go round
go round Robin Hood's barn
go round about
go round like a horse in a mill
go scot free
go separate ways
go shares
go shopping
go short
go sideways
go sit on a tack
go slow
go slowly
go slumming
go snack
go soak your head
go soft
go soft at the edges
go steady
go step by step
go straight
go straight on
go straight to the point
go the dizzy rounds
go the limit
go the long way around
go the other way
go the round
go the rounds
go the route
go the same round
go the vole
go the way of all earth
go the way of all flesh
go the whole hog
go the whole length
go the whole way
go through
go through a change
go through channels
go through fire and water
go through hell and high water
go through one
go through one's head
go through phases
go through the motions
go through with
go through with it
go through your paces
go through your part
go to
go to Abraham's bosom
go to Canossa
go to Davy Jones's locker
go to a better land
go to a better life
go to a better place
go to a better world
go to a watery grave
go to all lengths
go to an extreme
go to and fro
go to any length
go to any lengths
go to bat for
go to bed
go to bed with
go to do
go to extremes
go to foreign places
go to foreign shores
go to get
go to glory
go to grass
go to great lengths
go to great pains
go to ground
go to hell
go to it
go to kingdom come
go to law
go to loggerheads
go to perdition
go to pieces
go to pot
go to press
go to rack and manger
go to rack and ruin
go to rest
go to ruin
go to school
go to sea
go to sea in a sieve
igo to seed
go to shivers
go to show
go to sleep
go to smash
go to smitherens
igo to the bad
igo to the bathroom
igo to the bitter end
igo to the bottom
igo to the country
igo to the deuce
igo to the devil
igo to the dogs
igo to the electorate
igo to the front for
igo to the happy hunting grounds
go to the mat with
go to the trouble
go to the voters
go to the wall
go to town
go to town on
go to war
go to waste
go to windward
go to wrack and ruin
go to your glory
go to your head
go to your heart
go to your last home
go to your long account
go to your rest
go to your reward
go together
go too far
go treat
go under
go under a false name
go under an alias
go under an assumed name
go under false colors
go under false pretenses
go under the knife
go under the name of
go underground
go unrestrained
go up
go up and up
go up blind alleys
go up in smoke
go up in your lines
go up on your lines
go up the nose
go up the spout
go up the wall
go up to with hat in hand
go uphill
go upon
go well
go west
go whole hog
go with
go with the current
go with the party
go with the stream
go with the tide
go without
go without saying
go wonder
go woolgathering
go wrong
go your own way
go your rounds
go your way
go-about
go-ahead
go-as-you-please
go-ashore
go-away bird
go-back
go-between
go-by
go-cart
go-devil
go-down
go-getter
go-getterism
go-getting
go-go
go-go dancer
go-kart
go-moku
go-off
go-quick
go-slow policy
go-to-itiveness
go-to-meeting
goa powder
goad on
goal area
goal crease
goal judge
goal kick
goal line
goal minder
goal net
goal post
goal posts
goal stick
goal tender
goal tending
goal-post mast
goat antelope
goat chaffer
goat cheese
goat fig
goat god
goat grass
goat hair
goat marjoram
goat milker
goat moth
goat nut
goat owl
goat pepper
goat pox
goat rue
goat's hair
goat's-beard
goat's-rue
goat-bearded
goat-drunk
goat-eyed
goat-footed
goat-headed
goat-herd
goat-hoofed
goat-horned
goat-keeping
goat-kneed
goat-pox
goat-toothed
goatsfoot convolvulus
gob line
gob rope
gob-line
gobar numerals
gobble down
gobble up
gobe-mouches
goblet cell
goblin fish
goblin scarlet
goblin shark
god head
god of evil
god of justice
god of lightning
god of trade
god's acre
god's penny
god's-penny
god-a-mercy
god-almighty
god-child
god-damn
god-daughter
god-fearing
god-horse
god-king
god-mamma
god-man
god-papa
god-parent
god-sphere
god-speed
goddam it
goddess of evil
goddess of justice
goddess-like
goddesses of discord
godforsaken place
godly-learned
godly-minded
godly-mindedness
gods of
gods of commerce
gods of evil
gods of marriage
gods of the nether world
goer-by
goferor gauffer
goggle eyes
goggle-eye
goggle-eye scad
goggle-eyed
goggle-eyes
goggle-nose
going about
going afoot
going against the current
going ahead
going along with
going around
going around in circles
going ashore
going away
going barrel
going behind
going between
going down of the sun
going for broke
going forth
going fusee
going light
going off
going on
going on all fours
going on foot
going out
going over
going price
going strong
going through
going to Jerusalem
going to happen
going to pieces
going to the polls
going train
going wheel
going-concern
going-concern value
going-out-of-business sale
going-over
goings on
goings-on
goings-over
goiter stick
gold apple
gold assayer
gold bank
gold bar
gold basis
gold bass
gold beating
gold beetle
gold beryl
gold blocker
gold blocking
gold bond
gold book
gold brick
gold bronze
gold brown
gold bullion standard
gold carp
gold certificate
gold chloride
gold clause
gold democrat
gold depository
gold digger
gold digging
gold diggings
gold driver
gold dust
gold fever
gold field
gold foil
gold lace
gold leaf
gold maker
gold making
gold medal
gold melter
gold mine
gold miner
gold mining
gold monochloride
gold note
gold nugget
gold of pleasure
gold orange
gold pan
gold panner
gold piece
gold plate
gold point
gold refiner
gold reserve
gold rush
gold seeker
gold solder
gold spinner
gold standard
gold star
gold stick
gold therapy
gold tooth
gold topaz
gold trichloride
gold warden
gold washer
gold washing
gold working
gold-and-silver plant
gold-ball
gold-banded
gold-basket
gold-bearing
gold-beater
gold-beating
gold-bloom
gold-bound
gold-braided
gold-breasted
gold-brick
gold-bright
gold-broidered
gold-bug
gold-bullion standard
gold-ceiled
gold-chain
gold-clasped
gold-colored
gold-containing
gold-crested
gold-daubed
gold-decked
gold-dig
gold-digger
gold-dust
gold-dust tree
gold-edged
gold-embossed
gold-embroidered
gold-enwoven
gold-exchange
gold-exchange standard
gold-field
gold-fields
gold-filled
gold-finder
gold-fish
gold-foil
gold-framed
gold-fringed
gold-graved
gold-green
gold-haired
gold-headed
gold-hilted
gold-inlaid
gold-laced
gold-laden
gold-leaf
gold-lit
gold-mine
gold-mounted
gold-of-pleasure
gold-plate
gold-plated
gold-plating
gold-red
gold-ribbed
gold-rimmed
gold-robed
gold-rolling
gold-rush
gold-seeking
gold-star
gold-striped
gold-strung
gold-studded
gold-tail moth
gold-testing
gold-washer
gold-weight
gold-winged
gold-work
gold-wrought
gold-yellow
goldbeater's skin
golden age
golden aster
golden bamboo
golden bantam corn
golden beryl
golden boy
golden buck
golden calf
golden calla lily
golden chain
golden clematis
golden coreopsis
golden crest
golden crown
golden crownbeard
golden currant
golden disc
golden dream
golden eagle
golden eardrop
golden era
golden exhalations of the dawn
golden feather
golden fizz
golden flax
golden fleece
golden glow
golden goose
golden gram
golden handshake
golden horde
golden jubilee
golden loosestrife
golden marguerite
golden mean
golden millet
golden mole
golden nematode
golden number
golden oat
golden opportunity
golden oriole
golden pheasant
golden plover
golden polypody
golden potto
golden queen
golden ragwort
golden rain
golden retriever
golden rose
golden rule
golden sable
golden saying
golden season of life
golden section
golden shower
golden silence
golden slumbers
golden spider lily
golden star
golden stars
golden syrup
golden thistle
golden time
golden touch, the
golden trout
golden tuft
golden vision
golden warbler
golden wattle
golden wedding
golden wedding anniversary
golden years, the
golden yellow
golden-ager
golden-banded
golden-banded lily
golden-bearded
golden-breasted
golden-brown
golden-cheeked
golden-chestnut
golden-colored
golden-crested
golden-crowned
golden-crowned kinglet
golden-cup
golden-cup oak
golden-eared
golden-eye
golden-eyed
golden-eyed fly
golden-eyed grass
golden-feather yellow
golden-fettered
golden-fingered
golden-footed
golden-fruited
golden-gleaming
golden-glowing
golden-green
golden-haired
golden-headed
golden-hilted
golden-hued
golden-leaved
golden-locked
golden-mouthed
golden-rain tree
golden-rayed
golden-rod
golden-spotted
golden-throned
golden-tipped
golden-toned
golden-tongued
golden-tressed
golden-voiced
golden-winged
golden-yellow
goldenrain tree
goldenrod tree
goldfish bowl
goldsmith beetle
golf bag
golf ball
golf cart
golf club
golf course
golf green
golf hose
golf links
golf red
golf shoe
golf widow
golgi apparatus
golgi body
goliath beetle
goliath crane
goliath frog
goliath heron
golo-shoe
gom-puaaw
gombeen-man
gombeen-men
gomboon ware
gomoku-zogan
gomuti palm
gon-
gondang wax
gondola back
gondola car
gone arrow
gone away
gone bad
gone begging
gone by
gone feeling
gone for a burton
gone glimmering
gone goose
gone off
gone on
gone out
gone out of your head
gone out of your recollection
gone the way of all flesh
gone to a better land
gone to a better place
gone to a better world
gone to dust
gone to glory
gone to kingdom come
gone to pot
gone to rack and ruin
gone to seed
gone to the bad
gone to the dogs
gone to waste
gone to wrack and ruin
gone west
gone-by
gong bell
gong buoy
gong drum
gong-gong
goni-
gono-
gonococcal arthritis
gonorrheal arthritis
gonorrheal rheumatism
goo-goo
goo-goo eyes
goober pea
good Christian
good English
good Joe
good Samaritan
good afternoon
good and
good and mad
good and ready
good and tired
good angel
good appearance
good arvo
good as gold
good at
good at the price
good auspices
good behavior
good book
good boy good girl
good boy good girl
good break
good breeding
good buy
good case
good chance
good character
good cheap
good cheer
good child
good citizen
good citizenship
good clothes
good company
good condition
good constitution
good cry
good day
good deal
good deed
good deportment
good digestion
good disposition
good effect
good egg
good enough
good estate of body
good even
good evening
good example
good faith
good features
good feeling
good fellow
good figure
good fist
good flavor
good folk, the
good footing
good for
good for a laugh
good for you
good form
good fortune
good friday
good friend
good full
good genius
good graces
good gracious
good guy
good hair
good hand
good health
good hearing
good heavens
good hope
good humor
good graces
good idea
good influence
good judge
good judgment
good lack
good life
good life, the
good looker
good looks
good loser
good lot
good luck
good man
good management
good manners
good marrow
good measure
good memory
good mixer
good morning
good morrow
good name
good nature
good neighbor
good news
good night
good night's sleep
good now
good odor
good offices
good oil
good old days
good old summertime
good old times
good omen
good one
good opportunity
good palate
good pennyworth
good people
good person
good points
good possibility
good price
good prognosis
good proportions
good prospect
good quality or effect
good question
good reason
good reasoning
good report
good reputation
good repute
good riddance
good sense
good shape
good shot
good show
good side of, the
good society
good soldier
good sooth
good sort
good speed
good spirits
good sport
good sportsmanship
good state of health
good stewardship
good story
good sum
good supply
good sword
good taste
good temper
good templar
good terms
good thing
good things of life
good time
good times
good to eat
good trim
good turn
good understanding
good usage
good use
good vibes
good vibrations
good ways
good weather
good will
good will to man
good will toward man
good wishes
good woman
good word
good works
good writing
good-by
good-bye
good-bye-summer
good-daughter
good-den
good-doer
good-faith
good-father
good-fellow
good-fellowhood
good-fellowish
good-fellowship
good-for
good-for-naught
good-for-nothing
good-for-nothingness
good-hearted
good-humored
good-humoredly
good-humoredness
good-humoured
good-humouredly
good-humouredness
good-liking
good-looker
good-looking
good-lookingness
good-luck charm
good-luck piece
good-mannered
good-morning-spring
good-mother
good-natured
good-natured banter
good-naturedly
good-naturedness
good-neighbor
good-neighbor policy
good-neighborhood
good-night
good-o
good-oh
good-plucked
good-sister
good-size
good-sized
good-tasting
good-tempered
good-temperedly
good-temperedness
good-time
goodness gracious
goodness of fit
goodness of heart
goods and chattels
goods dollar
goods engine
goods for sale
goods train
goods waggon
goods wagon
goods yard
goods, the
goody good-good
goody gumdrops
goody-good
goody-goodies
goody-goodiness
goody-goodness
goody-goody
goody-goodyism
goody-goodyniness
goof around
goof off
goof up
goof-off
goof-off time
goof-up
goofing off
googly-eyed
goon squad
gooney bird
goose barnacle
goose bumps
goose call
goose chase
goose club
goose corn
goose egg
goose file
goose flesh
goose grass
goose gray
goose grease
goose gull
goose pen
goose pimples
goose plant
goose plum
goose quill
goose rump
goose skin
goose step
goose tansy
goose teal
goose tree
goose walk
goose-beak whale
goose-bill
goose-cackle
goose-egg
goose-flesh
goose-fleshy
goose-foot
goose-footed
goose-grass
goose-grease
goose-headed
goose-neck
goose-pimple
goose-pimply
goose-quill
goose-shaped
goose-skin
governess-ship
governing board
governing body
government archives
government bar
government bond
government building
government control
government depository
government hospital
government insurance
government issue
government man
government mark
government note
government of the people
government paper
government papers
government securities
government stamp
government-general
government-in-exile
government-owned
governmental leadership
governor general
governor generals
governor's council
governor's mansion
governor-elect
governor-general
governor-generalship
governors general
gowk storm
gown boy
gown-fashion
gr wt
gr-s
graafian follicle
grab at
grab bag
grab bar
grab barrel
grab box
grab bucket
grab dredge
grab hold of
grab line
grab link
graduated taxation
graduating engine
graduation exercises
graeco-
graft hybrid
graft-hybridism
graft-hybridization
grafting wax
graham bread
graham cracker
graham flour
graham wafer
grain alcohol
grain aphid
grain beetle
grain bill
grain bin
grain binder
grain borer
grain broker
grain carrier
grain cleaner
grain cradle
grain crusher
grain drill
grain elevator
grain farm
grain farmer
grain farming
grain founder
grain glove
grain gold
grain grower
grain growth
grain harvester
grain huller
grain lac
grain leather
grain louse
grain mark
grain mash
grain merchant
grain miller
grain moth
grain musk
grain of salt
grain of sand
grain oil
grain pan
grain refiner
grain rust
grain sack
grain sacker
grain sampler
grain screen
grain screener
grain shipper
grain side
grain smut
grain soap
grain sorghum
grain thresher
grain tin
grain traveler
grain weevil
grain weigher
grain-burnt
grain-carrying
grain-cleaning
grain-cut
grain-eater
grain-eating
grain-fed
grain-growing
grain-laden
grain-wagon hitch
grains d'orge
gains of paradise
gram atom
gram calorie
gram degree
gram equivalent
gram equivalent weight
gram ion
gram molecule
gram's method
gram-atomic weight
gram-centimeter
gram-meter
gram-molar
gram-molecular
gram-molecular weight
gram-negative
gram-negative bacteria
gram-positive
gram-positive bacteria
gram-variable
grama grass
gramicidin D
graminaceous plant
gramineous plant
grammar college
grammar school
grammar-school
grammatical accent
grammatical analysis
grammatical error
grammatical form
grammatical gender
grammatical meaning
grammatical point
grammatical theory
grammatico-allegorical
gramophone record
gran cassa
gran torismo
grana cheese
granadilla tree
granary weevil
grand air
grand ballroom
grand chain
grand chop
grand climacteric
grand cordon
grand council fire
grand coup
grand dame
grand dragon
grand drapery
grand duchess
grand duchy
grand duke
grand feu
grand final
grand finale
grand fir
grand guignol
grand inquisitor
grand jete
grand juror
grand jury
grand juryman
grand lama
grandmother clock
grandmother's clock
grandstand play
grandstand player
granger laws
gran-
granite blue
granite gray
granite paper
granite porphyry
granite quarry
granite-dispersing
granite-gneiss
granite-gruss
granite-sprinkled
granny flat
granny glasses
granny knot
granny's bend
granny's knot
granny-thread
grano-
grant a decree of nullity
grant a divorce
grant a final decree
grant a reprieve
grant amnesty to
grant an annulment
grant bail to
grant citizenship
grant exemption
grant forgiveness
grant immunity
grant of probate
grant remission
grant-in-aid
grants-in-aid
granul-
granular snow
granular texture
granulated soap
granulated sugar
granulation tissue
granule cell
granule gravel
granulo-
granuloma inguinale
granuloma venereum
grape cane borer
grape cherry
grape curculio
grape cure
grape disease
grape family
grape fern
grape green
grape grower
grape growing
grape hoe
grape hopper
grape hyacinth
grape juice
grape leaf folder
grape leaf hopper
grape louse
grape mildew
grape moth
grape pear
grape phylloxera
grape picker
grape picking
grape ranch
grape rootworm
grape rot
grape rust
grape scale
grape seed
grape sugar
grape tomato
grape tree
grape weevil
grape wine
grape worm
grape-bearing
grape-berry moth
grape-eater
grape-hued
grape-leaved
grape-seed oil
grape-shaped
grape-shot
grape-sized
grape-stone
grape-vine
grapefruit juice
grapefruit league
grapefruit spoon
grapes of wrath
grapevine fidia
grapevine flea beetle
grapevine leaf hopper
grapevine phylloxera
grapevine telegraph
grapevine thrips
graph paper
graphic accent
graphic account
graphic algebra
graphic art
graphic artist
graphic arts
graphic granite
graphic panel
graphic scale
graphic-texture
graphite steel
graf-グラフ-グラフ
grapnel plant
grappier cement
grapple bucket
grapple dredge
grapple fork
grapple ground
grapple iron
grapple plant
grapple shot
grapple with
grappling hook
grappling iron
grasp at a straw
grasp the meaning
grasping organ
grasping organs
grass bass
grass box
grass bur
grass carp
grass cattle
grass character
grass cloth
grass cold
grass comber
grass court
grass drake
grass earth
grass family
grass fern
grass finch
grass frog
grass green
grass guard
grass gum
grass hand
grass hockey
grass ill
grass lamb
grass land
grass lawn
grass lily
grass linen
grass mildew
grass moor
grass moth
grass owl
grass paper
grass parakeet
grass pea
grass pickerel
grass pink
grass plover
grass poly
grass pondweed
grass porgy
grass rockfish
grass roots
grass rug
grass sandwort
grass savanna
grass shears
grass skirt
grass snake
grass snipe
grass sorghum
grass spider
grass sponge
grass stagger
grass steppe
grass style
grass swine
grass table
grass tetany
grass tree
glass veld
glass vetch
glass warbler
glass webworm
glass widow
glass widower
glass wrack
glass-blade
glass-carpeted
glass-clad
glass-cloth
glass-cloth plant
glass-covered
glass-cushioned
glass-cutting
glass-eater
glass-eating
glass-embroidered
glass-fed
glass-green
glass-growing
glass-grown
glass-hook
glass-killing
glass-leaved
glass-mowing
glass-of-Parnassus
glass-plat
glass-roofed
glass-roots
glass-roots campaign
glass-roots movement
glass-tree
glass-tree gum
glass-woven
glass-wren
grasshopper engine
grasshopper escapement
grasshopper gauge
grasshopper lark
grasshopper lobster
grasshopper mouse
grasshopper sparrow
grasshopper warbler
grassland buttercup
grassland daisy
grassy-green
grassy-leaved
grate coal
grate on
grate room
grate surface
grate upon the ear
grated cheese
grateful dead
gratia dei
gratify yourself
gratuitous contract
gravamen of a charge
grape accent
grape as an undertaker
grape clothes
grape harmonic
grape injustice
grape marker
grape mixture
grape plant
grape robber
grape robbing
grape sin
grape wax
grape-born
grape-bound
grape-browed
grape-clothes
grape-colored
grape-digger
grape-digging
grape-faced
grape-looking
grape-riven
grape-robbing
grape-toned
grape-visaged
grape-wax
gravel chickweed
gravel plant
gravel road
gravel shooter
gravel train
gravel-bind
gravel-blind
gravel-blindness
gravel-grass
gravel-pit
gravo-
gravure microscope
gravure press
gravy boat
gravy eye
gravy soup
gravy train
gray birch
gray body
gray colors and pigments
gray dogwood
gray duck
gray eminence
gray fox
gray goldenrod
gray goods
gray gum
gray hair
gray hairs
gray hen
gray iron
gray manganese ore
gray market
gray marketeer
gray matter
gray mold
gray mullet
gray of the evening
gray orchis
gray out
gray ox
gray parrot
gray pine
gray scale
gray sea eagle
gray skate
gray snapper
gray sour
gray squirrel
gray trout
gray whale
gray with age
gray with fear
gray wolf
gray-barked
gray-bearded
gray-bellied
gray-black
graze by
graze the surface
grazing country
grazing region
grease bucket
grease cup
grease extractor
grease gun
grease job
grease joint
grease mold
grease monkey
grease moth
grease nipple
grease paint
grease pit
grease rack
grease ring
grease the hand
grease the palm
grease the ways
grease the wheels
grease trap
grease wool
grease your palm
grease-heel
grease-heels
grease-nut
greased lightning
greasining of the wheels
greasy grind
greasy spoon
greasy-headed
great Neptune's ocean
great abundance
great ado
great age
great anteater
great ape
great auk
great barracuda
great basinet
great bear
great beauty
great big
great black-backed gull
great blue heron
great blue shark
great bunch grass
great bustard
great calorie
great cause
great circle
great compass
great cost
great council
great crested grebe
great dane
great deal
great distance
great divide
great doings
great doxology
great effort
great expectations
great foot
great friend
great fun
great go
great grandfather
great gray owl
great gross
great gun
great guns
great heart
great helm
great honor
great horned owl
great hundred
great lady
great laurel
great lobelia
great man
great mullein
great nettle
great northern diver
great octave
great of heart
great of soul
great one for
great organ
great pace
great pastern bone
great plenty
great point
great power
great-circle track
great-coat
great-crested
great- eared
great-eyed
great-footed
great-footed hawk
great-grand daughter
great-grandaunt
great-grandchild
great-grandchildren
great-granddaughter
great-grandfather
great-grandmother
great-grandnephew
great-grandniece
great-grandparent
great-grandson
great-granduncle
great-great-
great-grown
great-head
great-headed
great-hearted
great-hipped
great-leaved
great-lipped
great-minded
great-mindedly
great-mindedness
great-nephew
great-niece
great-nosed
great-sized
great-souled
great-sounding
great-spirited
great-stemmed
great-tailed
great-tailed grackle
great-uncle
great-witted
greater Bairam
greater Ionic
greater and greater
greater celandine
greater city
greater doxology
greater litany
greater multangular bone
greater omentum
greater prairie chicken
greater shearwater
greater weever
greater yellowlegs
greatest common divisor
greatest lower bound
greatest-integer function
greatly daring
greatness of heart
greatness of soul
grebe cloth
greco-
greedy as a hog
greedy eater
greedy guts
greedy-gut
greek catholic
greek cross
greek fire
greek orthodox
green Chartreuse
green June beetle
green alga
green algae
green apple
green as grass
green bag
green ball
green bass
green bean
green belt
green blindness
green book
green card
green cheese
green cloth
green color
green copperas
green corn
green crab
green dragon
green earth
green fee
green fingers
green flash
green foxtail
green frog
green gland
green glass
green gold
green goods
green goose
green gram
green grass
green head
green heron
green in the eye
green lead ore
green leek
green light
green light
green man
green manure
green mint
green mold
green monkey
green mould
green mountain boy
green ocher
green oil
green old age
green onion
green osier
green paper
green pea
green pepper
green pigeon grass
green plover
green pound
green revolution
green rot
green salad
green salt
green sauce
green sea
green segment
green sickness
green snake
green soap
green strength
green stuff
green tea
green thumb
green turtle
green valley-grass
green vegetable
green vegetables
green verditer
green vitriol
green wattle
green way
green with envy
green with jealousy
green woodpecker
green-back herring
green-back trout
green-backed
green-backed goldfinch
green-bag
green-banded
green-barked
green-barked acacia
green-belt
green-black
green-blind
green-blue
green-bodied
green-boled
green-bordered
green-bottle fly
green-boughed
green-breasted
green-breasted pheasant
green-clad
green-crested
green-cross gas
green-cross shell
green- curtained
green-decked
green-ear disease
green-edged
green-embroidered
green-eyed
green-eyed jealousy
green-eyed monster
green-faced
green-feathered
green-fish
green-flowered
green-fly
green-fringed
green-garbed
green-gilled
green-glazed
green-gold
green-gray
green-grown
green-haied
green-headed
green-headed widgeon
green-house
green-hued
green-leaved
green-legged
green-mantled
green-peak
green-recessed
green-ribbed
green-room
green-rotted
green-salted
green-sand
green-seeded
green-shaving
green-sheathed
green-shining
green-skinned
green-sleeves
green-stained
green-stone
green-striped
green-suited
green-tail
green-tail fly
green-tailed
green-throated
green-tinted
green-tip spray
green-tipped
green-twined
green-veined
green-winged
green-winged teal
green-yard
green-yellow
greenbottle fly
greenhouse effect
greenhouse stone cricket
greenhouse thrips
greening weed
greenish-blue
greenish-flowered
greenish-yellow
greens fee
greensand process
greenstick fracture
greenwich time
greet the day
greet with a kiss
greet with skepticism
greeting card
gregorian calendar
gregorian chant
gregory-powder
grenade launcher
grenadine pink
grenadine red
grenz ray
gresham's law
gretta green
grey area
grey eminence
grey fox
grey friar
grey goose
grey heron
grey lag
grey market
grey matter
grey mullet
grey plover
grey squirrel
grey whale
grey wolf
grey-back
grey-cheeked
grey-coat
grey-eyed morn
grey-headed
grey-hen
grey-state
greyhound racing
greylag goose
grey battery
grey bias
grey capacitor
grey circuit
grey condenser
grid conductance
grid current
grid declination
grid emission
grid leak
grid line
grid metal
grid modulation
grid road
grid variation
grid voltage
grid-bias battery
grid-dip meter
grid-dip oscillator
grid-glow tube
grid-seal tube
griddle cake
griddle valve
gridiron drainage
gridiron pendulum
gridiron valve
gridiron-tailed lizard
grief dulled
grief oppressed
grief-bowed
grief-distraught
grief-exhausted
grief-inspired
grief-scored
grief-shot
grief-stricken
grief-worn
grievance committee
grieve for
grieve over
grieve with
grievous bodily harm
griffin-beaked
griffin-guarded
griffin-winged
giffon vulture
giffon-vulture
grigi man
grilled cheese sandwich
grim reality
grim reaper
grim-cheeked
grim-eyed
grim-faced
grim-featured
grim-frowning
grim-grinning
grim-looking
grim-set
grim-visaged
grimace at
grimm's law
grimy-handed
grin and abide
grin and bear it
grin at
grin like a Cheshire cat
grin like a chessy-cat
grind down
grind on
grind organ
grind to dust
grind to powder
grind whale
grind your teeth
grindery warehouse
grinding halt
grinding mill
grinding organ
grinding pain
grinding poverty
grinding stone
grinding wheel
grindle stone
grinning skull
grip block
grip car
grip of steel
grip sheave
grip tape
grip wheel
gripe piece
gripe water
gripe's egg
gripping instrument
gripping instruments
gripple-handed
gris-amber
gris-de-lin
gris-gris
grist to the mill
grist to your mill
grit cell
grit your teeth
grizzly bear
grizzly-bear cactus
groaning board
groaning cake
groaning chair
groans of roaring wind and rain
grocery store
grog blossom
grog lifter
groin point
groin rib
groin vault
grommet nut
groo-groo
groom's cake
groom-porter
groove board
groove on
groove-billed
grooving plane
grooving saw
grope for
grope in the dark
gros de Londres
gros de Tours
gros de napes
gros grain
gros point
gros points
gros tournois
gross amount
gross behavior
gross body
gross credulity
gross domestic product
gross falsehood
gross ignorance
gross income
gross injustice
gross interest
gross lift
gross national product
gross out
gross profit
gross receipts
gross register ton
gross register tonnage
gross ton
gross tonnage
gross up
gross weight
gross-beak
gross-bodied
gross-brained
gross-featured
gross-fed
gross-headed
gross-jawed
gross-lived

gross-mannered
gross-minded
gross-money
gross-money pool
gross-natured
gross-pated
gross-witted
grossly overpriced
grotto blue
ground alert
ground almond
ground angling
ground annual
ground annualer
ground ash
ground bait
ground ball
ground bass
ground beam
ground beef
ground beetle
ground birch
ground box
ground bridge
ground bundle
ground burnut
ground cable
ground cedar
ground centaury
ground chain
ground cherry
ground chestnut
ground chuck
ground circuit
ground cistus
ground clamp
ground cloth
ground clutter
ground coat
ground cock
ground color
ground combat
ground connection
ground control
ground control of aircraft
ground cover
ground crew
ground cricket
ground cuckoo
ground current
ground cypress
ground detector
ground dove
ground down
ground effect machine
ground elder
ground elevation
ground fern
ground finch
ground fir
ground fire
ground flax
ground flea
ground floor
ground fog
ground forces
ground form
ground game
ground gas
ground glass
ground gold-flower
ground goldenrod
ground goldflower
ground grue
ground hard and fast
ground hemlock
ground hog
ground holly
ground honeysuckle
ground ice
ground itch
ground ivory flower
ground ivy
ground jasmine
ground joist
ground juniper
ground lag
ground landlord
ground lark
ground laurel
ground layer
ground lead
ground lease
ground lemon
ground level
ground lily
ground line
ground liverwort
ground lizard
ground log
ground loop
ground mahogany
ground mail
ground mallow
ground maple
ground meristem
ground mine
ground mold
ground moss
ground net
ground noise
ground note
ground oak
ground observer
ground on
ground out
ground owl
ground parakeet
ground parrot
ground pea
ground pearl
ground pig
ground pigeon
ground pike
ground pine
ground pink
ground pistachio
ground plan
ground plane
ground plate
ground plum
ground provisions
ground puppy
ground radar
ground raspberry
ground rat
ground rattan
ground rattler
ground rent
ground rent insurance
ground robin
ground roller
ground rope
ground round
ground row
ground rule
ground rules
ground saligot
ground school
ground sea
ground seal
ground shark
ground shield
ground skidder
ground sloth
ground sluice
ground snake
ground sparrow
ground speed
ground squirrel
ground staff
ground starling
ground state
ground strake
ground stroke
ground substance
ground sweet
ground swell
ground table
ground tackle
ground test
ground tester
ground thistle
ground thrush
ground tier
ground timbers
ground tissue
ground tit
ground tone
ground tow
ground track
ground troops
ground vine
ground warbler
ground water
ground wave
ground ways
ground willow
ground wire
ground worm
ground wren
ground yew
ground your arms
ground zero
ground-ash
ground-attack fighter
ground-bait
ground-bird
ground-cherry
ground-control approach
ground-controlled approach
ground-down
ground-effect machine
ground-fast
ground-floor
ground-hog
ground-hog day
ground-ice
ground-ivy
ground-line
ground-man
ground-nut
ground-pea
ground-pine
ground-plan
ground-plate
ground-plot
ground-rent
ground-sea
ground-sheet
ground-sluicer
ground-squirrel
ground-squirrel pea
ground-support aircraft
ground-swell
ground-tackle
ground-to-air
ground-to-ground
ground-water level
grounded on
groundhog day
grounding connection
groundless rumor
groundnut oil
grounds for belief
grounds for war
grounds keeper
groundsel bush
groundsel tree
group agglutination
group analysis
group annuity
group ascendancy
group breaker
group captain
group drive
group dynamics
group flashing light
group insurance
group life insurance
group marriage
group medicine
group method
group mind
group mixture
group occulting light
group of advisers
group payment
group policy
group practice
group pressure
group psychology
group psychotherapy
group rate
group relations training
group representation
group sensitivity training
group shot
group test
group theory
group therapy
group velocity
group will
group with operators
group work
group-connect
group-conscious
grouper pea
groups of languages
grouse disease
grouse locust
grouse peas
group box
grouthead
grountlock brick
grove mast
grove palm
grove spar
grove tree
grow better
grow bright
grow cold
grow dark
grow dim
grow fat
grow from
grow hair
grow into
grow larger
grow light
grow like a weed
grow lush
grow old
grow on
grow on one
grow out of
grow over
grow pale
grow rank
grow red
grow rich
grow thick
grow to
grow together
grow up
grow weaker
grow weary
grow worse
growing degree-day
growing like a mushroom
growing lush
growing old
growing pains
growing point
growing rank
growing season
growing up
growl at
grown man
grown old
grown up
grown woman
grown-up
grown-upness
growth factor
growth force
growth form
growth fund
growth hormone
growth regulator
growth ring
growth shares
growth stock
grozing iron
grozing-iron
gru-gru
grub ax
grub beam
grub hoe
grub hook
grub out
grub plank
grub saw
grub screw
grub street
grub up
grub's on
grub-
grub-prairie
grub-street
grudging consent
grudging thanks
grugru beetle
grugru grub
grugru nut
grugru palm
grugru worm
grundy-swallow
grunt and sweat
grunting ox
gru-

guide meridian
guide mill
guide one's ear
guide pennant
guide pulley
guide rail
guide right
guide rope
guide word
guide yourself
guide-book
guide-post
guided control
guided missile
guided missile cruiser
guided wave
guider-in
guiding light
guiding principle
guiding principles
guiding star
guiding telescope
guild merchant
guild socialism
guild socialist
guild tree
guild-brother
guild-hall
guild-socialistic
guillotine amputation
guillotine shears
guilt offering
guilt-feelings
guilty act
guilty conscience
guilty verdict
guilty-cup
guinea cock
guinea flower
guinea fowl
guinea gold
guinea goose
guinea grains
guinea grass
guinea hen
guinea pepper
guinea pig
guinea rush
guinea sorrel
guinea trade
guinea worm
guinea-cock
guinea-fowl
guinea-hen
guinea-hen flower
guinea-hen weed
guinea-man
guinea-pea
guinea-pig
guipure lace
guise dancer
guit-guit
guitar fiddle
guitar mandolin
guitar plant
guitar wood
guitar-picker
guitar-shaped
gulf rupee
gulf stream
gulf-weed
gull chaser
gull grass
gull gray
gull teaser
gull wing
gull-billed
gull-like
gull-wing
gullet plate
gullet worm
gulleting file
gullible person
gully erosion
gully knife
gully root
gully washer
gully-raker
gulp down
gulper eel
gum acacia
gum acaroides
gum accroides
gum acid
gum acroides
gum aloes
gum savakin
gum shellac
gum shiraz
gum silk
gum soap
gum spirit
gum spirits
gum spot
gum stick
gum storax
gum succory
gum sugar
gum thus
gum tragacanth
gum tree
gum turpentine
gum up
gum up the works
gum water
gum-bichromate
gum-dichromate
gum-gum
gum-lac
gum-lac insect
gum-myrtle
gum-resinous
gum-saline
gum-shrub
gum-top
gum-top tree
gum-tree
gumbo grass
gumbo lily
gumbo limbo
gumbo soil
gumbo-limbo
gumbo-limbos
gumby bird
gummed up
gumming disease
gumming spade
gummy-legged
gumshoe man
gun assembler
gun barrel
gun bearer
gun boat
gun bore
gun breech
gun brig
gun captain
gun carriage
gun chamber
gun crew
gun deck
gun director
gun dog
gun down
gun emplacement
gun fight
gun fighter
gun fighting
gun firing
gun for
gun forger
gun forging
gun glaze
gun iron
gun lathe
gun loader
gun locksmith
gun makes
gun metal
gun moll
gun money
gun mount
gun park
gun parts
gun pendulum
gun pit
gun platform
gun power
gun room
gun sight
gun slide
gun tackle
gun-barrel lathe
gun-boat
gun-carrying
gun-cleaning
gun-cotten
gun-deck
gun-directing radar
gun-equipped
gun-man
gun-metal
gun-metal gray
gun-mounted
gun-rivet
gun-room
gun-shot
gun-shy
gun-shyness
gun-stock
gun-testing
gun-toting
gunboat diplomacy
gunboat system
gunebo lily
gung ho
gung-ho
gunk hole
gunnery mission
gunnery officer
gunnery sergeant
gunny bag
gunny cloth
gunny sack
gunny-bag
gunong api
gunpowder hammer
gunpowder tea
guns and launchers
gunstock stile
gunter iron
gunter lug
gunter rig
gunter's chain
gurgeon stopper
gurgina balsam
guri bori
gurjun balsam
guru nut
gush out
gush over
gushing rain
gusset plate
gusset stay
gussied up
gussy up
gustatory cell
gustatory delightfulness
gut course
gut reaction
gut response
gut spinner
gut with fire
gut-ache
gute Nacht
guten Abend
guten Morgen
guten Tag
gutless wonder
gutta balata
gutta dujan
gutta gamba
gutta gerip
gutta hangkang
gutta jangkar
gutta jelutong
gutta ketapang
gutta percha
gutta puan
gutta rosacea
gutta rosea
gutta sangei
gutta semarum
gutta serena
gutta siak
gutta singarip
gutta soh
gutta sundek
gutta sundik
gutta susu
gutta taban puteh
gutta-gum
gutta-gum tree
gutta-percha
guttae band
gutter press
gutter stick
gutter tree
gutter-blood
gutter-bred
gutter-grubbing
gutter-snipe
guttering trowel
gutturo-
guy cap
guy fawkes day
guy rope
gy-
gyle-fat
gym pants
gym shoe
gym shoes
gym suit
gymm-
gymnastic exercises
gymn-
gynaeco-
gynandro-
gynec-
gynec-
gynocardi-
gyno-
gynocardia oil
gyp artist
gyp joint
gyp-room
gypsum burner
gypsum pink
gypsum plaster
gypsy capstan
gypsy moth
gypsy scale
gypsy setting
gypsy winch
gypsy-like
gyr-
gyre carline
gyre carling
gyre upward
gyring up
gyro horizon
gyro mechanism
gyro pelorus
gyro repeater
gyro-
gyromagnetic ratio
gyroscopic compass
gyroscopic pilot
gyroscopic stabilizer
gyrostatic compass
h and c
h-bar
h-bomb
ha ha
ha-Nasi
ha-ha
hab-nab
habeas corpora
habeas corpus
habeas corpus ad prosequendum
habeas corpus ad subjiciendum
habeas corpus ad testificandum
habeas corpus cum causa
habere facias possessionem
habere facias seisinam
habit pattern
habit shirt
habit spasm
habit-forming
habitat form
habitat group
habitual criminal
habitual drunkenness
habitual liar
habitual offender
habitual smoking
hack board
hack file
hack hammer
hack house
hack it
hack out a deal
hack saw
hack watch
hack writer
hack-
hack-me-tack
hack-work
hacking coat
hacking jacket
hacking knife
hacking out a deal
hackle fly
hackney carriage
hackney chair
hackney coach
hackney pony
hackney-carriage
hackney-chair
hackney-coach
hackney-man
hackneyed expression
hackneyed saying
hacksaw fern
had best
had better
had it
had rather
haem-
haema-
haemat-
haemato-
haemato-crystallin
haemato-globulin
haemo-
haemorrhagic measles
hag clog
hag moth
hag-boat
hag-ridden
hag-taper
hagi-
hagio-
haikwan tael
hail and speak
hail fellow
hail from
hail insurance
hail mary
hail-fellow
hail-fellow well met
hail-fellow-well-met
hail-shot
hailing distance
hair ball
hair bleacher
hair braid
hair bramble
hair brown
hair cap moss
hair carder
hair cell
hair clipper
hair color
hair compass
hair crimper
hair curler
hair drawer
hair dye
hair dyeing
hair dyer
hair eel
hair fern
hair follicle
hair glove
hair grass
hair grip
hair hygrometer
hair kiln
hair lacquer
hair mattress
hair moss
hair moth
hair net
hair of the dog
hair of the dog that bit one
hair of the dog that bit you
hair oil
hair orchid
hair palm
hair pencil
hair powder
hair pyrites
hair remover
hair restorer
hair ribbon
hair salt
hair seal
hair sheep
hair shirt
hair sieve
hair slide
hair snake
hair sofa
hair sorter
hair space
hair straightener
hair stroke
hair stylist
hair tonic
hair trigger
hair trunk
hair wash
hair washer
hair waver
hair's-breadth
hair-branch tree
hair-check
hair-checking
hair-drawn
hair-drier
hair-fibered
hair-grass
hair-lace
hair-line
hair-lip
hair-powder
hair-raiser
hair-raising
hair-shirt
hair-sieve
hair-splitter
hair-splitting
hair-stemmed
hair-streak
hair-stroke
hair-trigger
hair-waving
hair-worm
hairbreadth escape
hairbrush cactus
haircap moss
hairpin bend
hairpin megaron
hairpin turn
hairs-breadth
hairy frog
hairy heart
hairy vetch
hairy wattle
hairy willowherb
hairy woodpecker
hairy-armed
hairy-chested
hairy-clad
hairy-dog story
hairy-earred
hairy-faced
hairy-foot
hairy-footed
hairy-fruited
hairy-handed
hairy-headed
hairy-legged
hairy-looking
hairy-skinned
hairy-tailed mole
hairytail mole
hal-
halade mystai
halberd fern
halberd-headed
halberd-leaved
halberd-shaped
halcyon bird
halcyon days
hale and hearty
hale bind
hale into court
hale old age
hale water
hale-nut
half G
half Wellington
half a C
half a chance
half a dozen
half a gale
half a hundred
half a jiffy
half a mo
half a second
half a shake
half after
half an eye
half an idea
half anatropous
half angel
half armor
half asleep
half aunt
half ball
half believe
half binding
half bird
half bishop
half block
half blood
half board
half boot
half boots
half brau
half broad
half brother
half bull
half butt
half cadence
half cent
half chronometer
half circle
half close
half cloth
half cock
half column
half cone
half court
half cousin
half cross stitch
half crown
half curl
half cushion
half davit
half deck
half dime
half diphthong
half dollar
half eagle
half facet
half frame
half gainer
half galley
half gerund
half grand
half header
half hitch
half holiday
half hose
half hour
half hunter
half island
half joe
half landing
half large
half leather
half life
half line
half mask
half measure
half measures
half mile
half model
half mourning
half nelson
half nephew
half niece  
half noble  
half note  
half nut  
half past  
half pay  
half pint  
half plane  
half points  
half port  
half principal  
half rations  
half ray  
half relief  
half rest  
half rhyme  
half ring  
half ripsaw  
half royal  
half rupee  
half scholar  
half seal  
half seas over  
half sheave  
half shell  
half shirt  
half shoe  
half sir  
half sister  
half size  
half small  
half snipe  
half sol  
half sole  
half sovereign  
half space  
half speed  
half step  
half stitch  
half stock  
half story  
half stuff  
half term  
half tide  
half timber  
half time  
half tint  
half title
half tone
half trap
half twist
half uncial
half uncle
half volley
half vowel
half year
half-
half-American
half-Americanized
half-Anglicized
half-Aristotelian
half-Asian
half-Asiatic
half-Beaufort scale
half-Christian
half-Confederate
half-Creole
half-Dacron
half-Elizabethan
half-English
half-French
half-German
half-Greek
half-Hessian
half-Irish
half-Italian
half-Latinized
half-Mexican
half-Mohammedan
half-Moslem
half-Muhammadan
half-Muslim
half-Russian
half-Scottish
half-Semitic
half-Shakespearean
half-Spanish
half-a-crown
half-a-dollar
half-abandoned
half-acustomed
half-acquainted
half-acquiescent
half-acquiescently
half-acre
half-addressed
half-admiring
half-admiringly
half-admitted
half-admittedly
half-adream
half-affianced
half-afloat
half-afraid
half-agreed
half-alike
half-alive
half-altered
half-and-half
half-and-half measures
half-angrily
half-angry
half-annoyed
half-annoying
half-annoyingly
half-ape
half-armed
half-armor
half-ashamed
half-ashamedly
half-asleep
half-assed
half-awake
half-backed
half-baked
half-bald
half-ball
half-banked
half-baptize
half-barbarian
half-bare
half-barrel
half-beak
half-beam
half-begging
half-begun
half-belief
half-believed
half-believing
half-bent
half-binding
half-bleached
half-blind
half-blind joint
half-deck
half-decked
half-decker
half-defiant
half-defiantly
half-deified
half-demented
half-democratic
half-demolished
half-denuded
half-deprecating
half-deprecatingly
half-deserved
half-deservedly
half-destroyed
half-developed
half-digested
half-dime
half-discriminated
half-discriminating
half-disposed
half-divine
half-divinely
half-dollar
half-done
half-door
half-dozen
half-dram
half-dressed
half-dressedness
half-dried
half-drowned
half-drowning
half-drunk
half-drunken
half-dug
half-dying
half-eagle
half-earnest
half-earnestly
half-eaten
half-ebb
half-educated
half-embraced
half-embracing half-embracingly
half-enamored
half-enforced
half-erased
half-evaporated
half-evaporating
half-evergreen
half-expectant
half-expectantly
half-exploited
half-exposed
half-face
half-face view
half-faced
half-false
half-famished
half-farthing
half-fascinated
half-fascinating
half-fascinatingly
half-fed
half-feminine
half-fertile
half-fertilely
half-fictitious
half-fictitiously
half-filled
half-finished
half-firkin
half-fish
half-flattered
half-flattering
half-flatteringly
half-flood
half-florin
half-folded
half-foot
half-forgiven
half-forgotten
half-formed
half-forward
half-frowning
half-frowningly
half-frozen
half-fulfilled
half-fulfilling
half-full
half-furnished
half-gallon
half-gill
half-god
half-great
half-grown
half-guinea
half-hard
half-hardy
half-harvested
half-headed
half-healed
half-heard
half-hearted
half-heathen
half-hidden
half-hitch
half-holiday
half-hollow
half-horse
half-hour
half-hour glass
half-hourly
half-human
half-hungered
half-hunter
half-hypnotized
half-imperial
half-important
half-importantly
half-inch
half-inclined
half-indignant
half-indignantly
half-inferior
half-informed
half-informing
half-informingly
half-ingenious
half-ingeniously
half-ingenuous
half-ingenuously
half-inherited
half-insinuated
half-insinuating
half-insinuatingly
half-instinctive
half-instinctively
half-intellectual
half-intellectually
half-intelligible
half-intelligibly
half-intoned
half-intoxicated
half-invalid
half-invalidly
half-iron
half-island
half-jack
half-jelled
half-joking
half-jokingly
half-justified
half-knot
half-know
half-languaged
half-languishing
half-lap joint
half-lapped
half-lattice girder
half-latticed
half-learned
half-learnedly
half-learning
half-leather
half-left
half-length
half-liberal
half-liberally
half-life
half-life period
half-light
half-lined
half-linen
half-litter
half-lived
half-lives
half-long
half-looper
half-lop
half-lunatic
half-lunged
half-mad
half-made
half-madly
half-madness
half-marked
half-marrow
half-mast
half-masticated
half-matured
half-plane
half-plate
half-playful
half-playfully
half-pleased
half-pleasing
half-plucked
half-port
half-pound
half-pounder
half-praised
half-praising
half-present
half-price
half-profane
half-professed
half-profile
half-proletarian
half-protested
half-protesting
half-proved
half-proven
half-provocative
half-quarter
half-quartern
half-quarterpace
half-questioning
half-questioningly
half-quire
half-quixotic
half-quixotically
half-radical
half-radically
half-rater
half-raw
half-rayon
half-reactionary
half-read
half-reasonable
half-reasonably
half-reasoning
half-rebellious
half-rebelliously
half-reclaimed
half-reclined
half-reclining
half-refined
half-regained
half-reluctant
half-reluctantly
half-remonstrant
half-repentant
half-republican
half-retinal
half-revealed
half-reversed
half-rhyme
half-right
half-ripe
half-ripened
half-roasted
half-rod
half-romantic
half-romantically
half-rotted
half-rotten
half-round
half-round file
half-rueful
half-ruefully
half-ruined
half-run
half-russia
half-sagittate
half-savage
half-savagely
half-saved
half-seal
half-seas over
half-seas-over
half-second
half-section
half-seen
half-sensed
half-serious
half-seriously
half-severed
half-shade
half-shamed
half-share
half-shared
half-sheathed
half-shoddy
half-shot
half-shouted
half-shroud
half-succulent
half-suit
half-sung
half-sunk
half-sunken
half-swing
half-sword
half-syllabled
half-taught
half-tearful
half-tearfully
half-teaspoonful
half-tented
half-terete
half-term
half-theatrical
half-thickness
half-thought
half-tide
half-tide dock
half-timber
half-timbered
half-time
half-time intermission
half-timer
half-title
half-title page
half-tone
half-tongue
half-track
half-tracked
half-trained
half-training
half-translated
half-true
half-truth
half-truths
half-turn
half-turn stair
half-turned
half-turning
half-understood
half-undone
half-used
half-utilized
half-value layer
half-veiled
half-vellum
half-verified
half-vexed
half-visibility
half-visible
half-volley
half-volleyed
half-volleyer
half-volleying
half-vowelish
half-waking
half-wave rectification
half-wave rectifier
half-way
half-whispered
half-whisperingly
half-white
half-wicket
half-wild
half-wildly
half-willful
half-willfully
half-winged
half-wit
half-witted
half-wittedly
half-wittedness
half-womanly
half-won
half-woolen
half-word
half-world
half-worsted
half-woven
half-written
half-year
half-yearly
halfhead bedstead
halfhearted thanks
halfpenny post
halftone engraving
halffway covenant
halffway file
halffway house
halffway in the middle
halffway mark
halffway measures
halffway place
halffway point
halfway station
halibut-liver oil
haling hands
hall bedroom
hall of residence
hall stand
hall tree
hall-door
hall-mark
hall-of-famer
hallelujah meter
hallow-e'en
hallow-tide
hallowed be Thy Name
hallucinatory painting
hallux valgus
halo blight
halo spot
halo-
halo-bright
halo-crowned
halo-girt
halogen gas
halter-sack
halter-wise
halting meters
halve together
ham actor
ham and eggs
ham it up
ham operator
ham rig
ham sandwich
ham shack
ham station
ham steak
ham transmitter
ham-fisted
ham-handed
ham-handedness
hamadryas baboon
hamber line
hamber-line
hamburg steak
hamburger stand
hame tug
hamitic languages
hamito-semitic
hamito-semitic languages
hammer and sickle
hammer and tongs
hammer at
hammer away
hammer away at
hammer ax
hammer beam
hammer blow
hammer break
hammer butt
hammer cap
hammer crane
hammer drill
hammer dulcimer
hammer gun
hammer into your head
hammer lock
hammer maker
hammer mill
hammer molding
hammer out
hammer out a deal
hammer oyster
hammer pick
hammer pike
hammer pond
hammer price
hammer rail
hammer scale
hammer sedge
hammer shank
hammer shell
hammer slag
hammer spring
hammer tail
hammer throw
hammer thrower
hammer throwing
hammer tongs
hammer welding
hammer-beam
hammer-cloth
hammer-hard
hammer-harden
hammer-head
hammer-proof
hammer-refined
hammer-shaped
hammer-strong
hammer-weld
hammer-welded
hammer-wrought
hammered work
hammerhead shark
hammerheaded shark
hammering glass
hammering out a deal
hamming up
hammock batten
hammock berthing
hammock clew
hammock cloth
hammock netting
hammy acting
hance arch
hancing piece
hand a sail
hand alphabet
hand and foot
hand and glove
hand ax
hand baggage
hand bell
hand blocker
hand brake
hand brush
hand camera
hand cannon
hand cheese
hand clapping
hand cleaner
hand composition
hand cream
hand director
hand down
hand drill
hand driller
hand dynamometer
hand embroidery
hand feeder
hand firer
hand fishing
hand flail
hand for hand
hand forward
hand gallop
hand gear
hand glass
hand goniometer
hand graver
hand grenade
hand guard
hand gun
hand hoe
hand hoer
hand hook
hand horn
hand in
hand in glove
hand in hand
hand in your checks
hand in your chips
hand in your resignation
hand infection
hand iron
hand ironer
hand it to
hand job
hand knitter
hand labor
hand laborer
hand language
hand laundry
hand lead
hand lens
hand letter
hand level
hand line
hand list
hand log
hand loom
hand lotion
hand luggage
hand mast
hand mill
hand miller
hand milling machine
hand miner
hand mirror
hand mixer
hand molder
hand money
hand mule
hand of death
hand of friendship
hand of glory
hand of writ
hand off
hand on
hand orchis
hand organ
hand out
hand over
hand over fist
hand over hand
hand over head
hand over your sword
hand paper
hand pitching
hand planer
hand plant
hand plate
hand play
hand plow
hand polisher
hand press
hand print
hand promise
hand pump
hand pumper
hand punch
hand riveter
hand roller
hand rope
hand running
hand screw
hand scroll
hand set
hand sewer
hand signal
hand spar
hand spinning
hand splicer
hand stitcher
hand sweep
hand tap
hand tight
hand tissue
hand to hand
hand to mouth
hand tool
hand tooling
hand towel
hand tree
hand trimmer
hand truck
hand turner
hand up an indictment
hand vote
hand weaver
hand weeder
hand worker
hand your name down to posterity
hand's turn
hand's-breadth
hand-ax
hand-ball
hand-barrow
hand-beaten
hand-blocked
hand-blown
hand-bound
hand-broad
hand-broken
hand-built
hand-canter
hand-carry
hand-cart
hand-carve
hand-chase
hand-churn drill
hand-clasp
hand-clean
hand-closed
hand-colored
hand-comb
hand-crushed
hand-culverin
hand-cut
hand-dress
hand-drill
hand-drop
hand-dug
hand-embroidered
hand-fed
hand-feed
hand-feeding
hand-fill
hand-filled
hand-fire
hand-fives
hand-fold
hand-footed
hand-glass
hand-grenade
hand-habend
hand-held
hand-hewn
hand-hidden
hand-high
hand-in
hand-in-glove
hand-in-hand
hand-knit
hand-knitted
hand-knitting
hand-knotted
hand-labour
hand-lettered
hand-line
hand-liner
hand-list
hand-loom
hand-lopped
hand-made
hand-me-down
hand-me-downs
hand-mill
hand-minded
hand-mindedness
hand-mix
hand-mold
hand-off
hand-operated
hand-organist
hand-out
hand-packed
hand-pick
hand-picked
hand-pitched
hand-play
hand-pollinate
hand-pollination
hand-power
hand-presser
hand-pressman
hand-printing
hand-pump
hand-rail
hand-rear
hand-reared
hand-rinse
hand-rivet
hand-roll
hand-rub
hand-rubbed
hand-sent
hand-sew
hand-sewn
hand-shackled
hand-sort
hand-splice
hand-split
hand-spun
hand-staff
hand-stamp
hand-stamped
hand-stitch
hand-stuff
hand-tailor
hand-tailored
hand-taut
hand-thrown
hand-tied
hand-tight
hand-to-hand
hand-to-hand combat
hand-to-hand fight
hand-to-mouth
hand-to-mouth existence
hand-tool
hand-treat
hand-trim
hand-turn
hand-vice
hand-wash
hand-weave
hand-weed
hand-worked
hand-woven
hand-wrist
hand-wrought
handed down
handflower tree
handful of thumbs
handicap race
handicapped person
handicapped, the
handicraft economy
handie-talkie
handing over
handkerchief table
handle bar
handle bars
handle blank
handle it just right
handle to your name
handle with gloves
handle with kid gloves
handle with velvet gloves
handle yourself
handle yourself well
handle-bar mustache
handlebar moustache
handmaid moth
handrail bolt
hands down
hands of
hands-down
hands-off
hands-off policy
handsome fortune
handsome-featured
handwriting expert
handwriting on the wall
handy at
handy man
handy-andies
handy-andy
handy-billy
handy-dandy
handy-pandy
handy-spandy
hang about
hang about at
hang around
hang around at
hang around with
hang back
hang behind
hang by a thread
hang by the eyelids
hang by the neck
hang crepe
hang down
hang fire
hang glider
hang heavy on your hands
hang in
hang in doubt
hang in effigy
hang in space
hang in suspense
hang in the balance
hang in there
hang it
hang like a millstone
hang net
hang off
hang on
hang on for dear life
hang on like a bulldog
hang on like a leech
hang on the lips
hang on the lips of
hang on the skirts of
hang on the sleeve of
hang on to
hang on your words
hang one on
hang open
hang out
hang out at
hang out with
hang out your shingle
hang over
hang over your head
hang something on
hang the expense
hang the jury
hang together
hang tough
hang up
hang up your hat
hang up your shingle
hang up your spurs
hang upon
hang upon the skirts of
hang your head
hang your lip
hang-
hang-back
hang-by
hang-choice
hang-dog
hang-down
hang-fair
hang-glider
hang-head
hang-nail
hang-over
hang-up
hangdog look
hanger board
hanger bolt
hanger-back
hanger-on
hanger-up
hangers-on
hanging buttress
hanging by a thread
hanging compass
hanging fixture
hanging gardens
hanging indention
hanging lie
hanging on
hanging out
hanging over your head
hanging post
hanging rail
hanging scroll
hanging step
hanging stile
hanging valley
hanging wall
hanging-drop culture
hangman's hands
hangman's knot
hangman's rope
hank-type antenna
hanker after
hankey-pankey
hanky-panky
hanse house
hansen's disease
hansom cab
hapax legomena
hapax legomenon
hapl-
haplo-
aploid number
happen along
happen as expected
happen by
happen by chance
happen on
happen over and over
happen to be
happen together
happen upon
happen what may
happy as a baby boy
happy as a clam at high water
happy as a king
happy as a lark
happy as the day is long
happy chance
happy expectation
happy family
happy fortune
happy hour
happy hunting ground
happy landing
happy medium
happy thought
happy warrior
happy-go-luckiness
happy-go-lucky
happy-go-luckyism
hara-kin
hara-kiri
harbinger-of-spring
harbingers-of-spring
harbor a design
harbor a feeling
harbor an idea
harbor deck
harbor doubts
harbor due
harbor furl
harbor gasket
harbor log
harbor master
harbor of refuge
harbor pilot
harbor porpoise
harbor resentment
harbor revenge
harbor seal
harbor stow
harbor suspicions
harbor the hope
harbor watch
harbour master
harbour seal
hard alee
hard and fast
hard and fast rule
hard aport
hard as a rock
hard as nails
hard astarboard
hard at it
hard at work
hard aweather
hard bargain
hard binding
hard blow
hard book
hard bop
hard by
hard candy
hard cash
hard chancre
hard cheese
hard cider
hard clam
hard coal
hard copy
hard core
hard court
hard currency
hard dinkum
hard drink
hard drinker
hard drug
hard fact
hard feelings
hard fern
hard fescue
hard frost
hard goods
hard grass
hard grind
hard ground
hard hat
hard head
hard heart
hard image
hard information
hard job
hard knocks
hard labor
hard labour
hard landing
hard lay
hard lead
hard life
hard line
hard lines
hard liquor
hard look
hard lot
hard luck
hard man with a buck
hard maple
hard market
hard mass
hard masse
hard master
hard money
hard news
hard nut to crack
hard oat grass
hard of belief
hard of hearing
hard of heart
hard on
hard on the eyes
hard over
hard palate
hard paste
hard pinch
hard pressed
hard pull
hard put
hard put to it
hard resin
hard resins
hard road to travel
hard rock
hard roe
hard roll
hard row of stumps
hard row to hoe
hard rubber
hard sauce
hard sell
hard shadow
hard shell
hard shoulder
hard sign
hard solder
hard stuff
hard tick
hard times
hard to believe
hard to please
hard to understand
hard tube
hard up
hard upon
hard usage
hard use
hard water
hard weather
hard wheat
hard winter
hard word
hard words
hard work
hard-acquired
hard-and-fast
hard-and-fastness
hard-bake
hard-baked
hard-barked
hard-beating
hard-bill
hard-billed
hard-biting
hard-bitted
hard-bitten
hard-bittenness
hard-boil
hard-boiled
hard-boiledness
hard-boned
hard-bought
hard-bred
hard-coated
hard-contested
hard-cooked
hard-core
hard-core pornography
hard-cover book
hard-cured
hard-drawn
hard-dried
hard-drinking
hard-driven
hard-driving
hard-drying
hard-earned
hard-edge
hard-edged
hard-eyed
hard-faced
hard-fated
hard-favored
hard-favouredness
hard-favoured
hard-favouredness
hard-feathered
hard-featured
hard-featuredness
hard-fed
hard-fighting
hard-finished
hard-fired
hard-fisted
hard-fistedness
hard-fleshed
hard-fought
hard-gained
hard-got
hard-grained
hard-hairied
hard-handed
hard-handled
hard-hat
hard-headed
hard-heart
hard-hearted
hard-hit
hard-hitting
hard-hitting campaign
hard-iron
hard-laid
hard-learned
hard-line
hard-living
hard-looking
hard-luck guy
hard-minded
hard-mouthed
hard-natured
hard-nosed
hard-nosedness
hard-of-hearing
hard-of-hearing aid
hard-pan
hard-paste porcelain
hard-plucked
hard-pressed
hard-pushed
hard-ridden
hard-riding
hard-rock geology
hard-run
hard-set
hard-shell
hard-shell clam
hard-shell crab
hard-shelled
hard-skinned
hard-spirited
hard-spun
hard-surface
hard-surfaced
hard-swear
hard-swear
hard-tack
hard-timbered
hard-trotting
hard-tube pulser
hard-upness
hard-uppishness
hard-used
hard-visaged
hard-wearing
hard-witted
hard-won
hard-wooded
hard-worked
hard-working
hard-wrought
hard-wrung
harden off
harden up
harden your heart
hardening of the arteries
hardhead sponge
hardly a chance
hardly any
hardly anything
hardly ever
hardly expect
hardly like
hardly possible
hardly the thing
hardly touch
hardly wait
hardness of hearing
hardness of heart
hardness scale
hardtop convertible
hardware cloth
hardware store
hardwood tree
hardy ageratum
hardy amaryllis
hare and hounds
hare family
hare's-ear
hare's-foot
hare's-foot clover
hare's-foot fern
hare-brain
hare-brained
hare-eyed
hare-finder
hare-lip
hare-mad
harebrained idea
harem girl
hari-kari
hariali grass
haricot vert
hark back
hark back to
hark ye
harken to
harlequin bug
harlequin ca
harlequin cabbage bug
harlequin duck
harlequin glasses
harlequin opal
harlequin snake
harlequin table
harmless teasing
harmonic analysis
harmonic close
harmonic conjugates
harmonic flute
harmonic interval
harmonic mean
harmonic minor
harmonic minor scale
harmonic motion
harmonic progression
harmonic proportion
harmonic series
harmonic tone
harmonious relationship
harmonize with
harmony of the spheres
harness bull
harness cask
harness eye
harness hitch
harness horse
harness leather
harness maker
harness making
harness plate
harness race
harness racer
harness racing
harness tub
harness up
harness-bearer
harness-cask
harnessed antelope
harp groat
harp guitar
harp on
harp seal
harp shell
harp shilling
harp upon
harp upon one string
harp upon the same string
harp-shaped
harping-iron
harpoon fork
harpoon gun
harpoon log
harpoon rocket
harpy bat
harpy eagle
harpy-bat
harpy-eagle
harpy-footed
harrier eagle
harrier hawk
harrow the ear
harry out
harry to destruction
harsh and shrill sounds
harsh sound
harsh-blustering
harsh-featured
harsh-grating
harsh-looking
harsh-mannered
harsh-sounding
harsh-syllabled
harsh-tongued
harsh-voiced
hart beest
hart clover
hart thorn
hart's tongue
hart's-tongue
harts-tongue
hartshorn bush
hartshorn plant
hartshorn plantain
harum-scarum
harum-scarumness
harvest bell
harvest bug
harvest dinner
harvest doll
harvest festival
harvest fish
harvest fly
harvest home
harvest lady
hat hook
hat in hand
hat leather
hat lining
hat maker
hat money
hat palm
hat piece
hat pin
hat plant
hat rack
hat roller
hat shop
hat stand
hat tree
hat trick
hat trimming
hat-in-hand
hat-money
hat-shag
hat-shaped
hatch a plot
hatch boat
hatch box
hatch coamings
hatch deck
hatch mast
hatch money
hatch tackle
hatch up
hatch-boat
hatchet cactus
hatchet door
hatchet face
hatchet job
hatchet man
hatchet planimeter
hatchet stake
hatchet vetch
hatchet-faced
hatchet-shaped
hatching spine
hatching station
hate sheet
hate yourself for your actions
hated thing
hatha-yoga
hatted kit
haughty airs
haul around
haul down
haul down your colors
haul down your flag
haul in with
haul into court
haul off
haul over the coals
haul round
haul the wind
haul to
haul up
haul your wind
haulage incline
hauling down
haunch bone
haunch-bone
haunt the memory
haunt your thoughts
haunted with fear
hausse-col
haut couture
haut monde
haut-gout
haut-pas
haut-relief
haut-ton
hautbois strawberry
haute cole
haute couture
haute cuisine
haute ecole
haute mal
haute vulgarisation
haute-feuillite
haute-piece
have a BM
have a baby
have a bad time
have a bad time of it
have a ball
have a bee in your bonnet
have a bellyful
have a bellyful of
have a bent for
have a bias
have a big bazoo
have a big mouth
have a big nose
have a blind side
have a blind spot
have a bone in your neck
have a bone in your throat
have a bone to pick
have a bone to pick with
have a bone to pick with someone
have a bowel movement
have a brush with
have a bump for
have a cake in the oven
have a canary
have a care
have a case
have a case on
have a cat fit
have a catch
have a certain sameness
have a certain state
have a chance
have a chance at
have a change of heart
have a charmed life
have a chill
have a chip on your shoulder
have a clean bill of health
have a clear conscience
have a comedown
have a conniption
have a conniption fit
have a cozy chat
have a crow to pick
have a crow to pick with
have a crow to pluck
have a crow to pluck with
have a crow to pull with
have a crush on
have a demon
have a devil
have a devil in one
have a devil in you
have a disaffinity for
have a dram
have a drink
have a drop too much
have a dry run
have a duck fit
have a faculty for
have a falling-out
have a fancy for
have a feeling
have a fine time of it
have a finger in
have a finger in the pie
have a flair for
have a fling at
have a fondness for
have a free hand
have a free mind
have a friendly chat
have a funny feeling
have a gargle
have a gift for
have a go
have a go at
have a gold mine
have a good appetite
have a good chance
have a good head for
have a good knowledge of
have a good mind to
have a good time
have a good time of it
have a good word for
have a great mind to
have a guzzle
have a hand in
have a handful of thumbs
have a hard time of it
have a head on your shoulders
have a healthy lead
have a heart
have a heart of stone
have a heart-to-heart talk
have a hemorrhage
have a high opinion of
have a hold over
have a hunch
have a jag on
have a job
have a joker
have a joker in the deck
have a kicker
have a lech for
have a leg to stand on
have a little learning
have a little talk
have a long nose
have a look at
have a looksee
have a lot to do with
have a lot to say about
have a mash on
have a memory like a sieve
have a mind like a sieve
have a mind of your own
have a mind to
have a mint
have a misery
have a mishap
have a monkey on your back
have a mortgage-burning party
have a mote in the eye
have a near miss
have a nerve
have a nervous breakdown
have a nest egg
have a nice trip
have a nip
have a part in
have a partiality
have a percentage of
have a picture of
have a piece of
have a premonition
have a presentiment
have a rehearsal
have a relapse
have a relish of
have a right to
have a rightful claim to
have a rightful claim upon
have a run
have a run of luck
have a screw loose
have a sensation
have a short attention span
have a short fuse
have a short memory
have a short memory span
have a shot at
have a show of hands
have a skinful
have a slight chance
have a small chance
have a snootful
have a soft place in your heart
have a soft spot in your heart
have a stake in
have a storm in a teacup
have a storm in a teapot
have a string attached
have a stroke of luck
have a strong effect
have a swelled head
have a talent for
have a talk with
have a tantrum
have a tapeworm
have a taste for
have a temper
have a temper tantrum
have a tempest in a teacup
have a tempest in a teapot
have a tendency
have a tender heart
have a test run
have a theory
have a thick skin
have a thing about
have a thorough knowledge of
have a tiger by the tail
have a title to
have a tongue in your head
have a turn for
have a very red face
have a voice in
have a way with one
have a way with you
have a weakness for
have a will of your own
have a willing heart
have a wolf in your stomach
have a word with
have a yellow streak
have a yen for
have about enough of
have accounts to settle
have all the earmarks of
have all the features of
have all the luck
have all the money in the world
have all the signs of
have all to yourself
have all you can stand
have all you can take
have all your eyes about one
have all your eyes about you
have all your marbles
have all your wits about one
have all your wits about you
have a look at
have an account with
have an ague
have an alias
have an anchor to windward
have an attraction
have an ax to grind
have an ear for
have an ear to the ground
have an edge
have an edge on
have an entree
have an eye for
have an eye to
have an idea
have an idea of
have an impression
have an in
have an in with
have an income of
have an inkling
have an intimation
have an opportunity
have an overdose of
have an understanding
have an upright carriage
have and hold
have another crack
have another go
have another shot
have another think coming
have another try
have ants in your pants
have as a fulcrum
have as a guest
have as a lodger
have as many phases as the moon
have as your master
have at
have at a disadvantage
have at heart
have at it
have at your command
have at your disposal
have at your disposition
have at your elbow
have at your fingers' ends
have at your fingers' tips
have at your pleasure
have bats in the belfry
have bats in your belfry
have been around
have been through the mill
have being
have better things to do
have birth
have blood in your eyes
have by heart
have by rote
have charisma
have chilblains
have childlike faith in
have clean hands
have clout
have cold feet
have coming
have coming in
have confidence
have confidence in
have connection with
have consideration for
have constantly in your thoughts
have control of
have conversations
have courage
have currency
have cut your eyeteeth
have cut your wisdom teeth
have dead to rights
have dealings with
have deep feelings
have designs on
have difficulty
have done
have done with
have doubts
have down cold
have down pat
have drag
have duck bumps
have eating out of your hand
have effect
have energy
have enough
have every appearance of
have every indication of
have every intention
have every intention of
have every sign of
have everything going your way
have everything to learn
have evidence
have exclusive possession of
have exclusive rights to
have eyes for
have eyes only for
have faith
have faith in
have favorable odds
have for your own
have for your very own
have foreboding
have free play
have free scope
have full play
have fun
have good prospects
have goose bumps
have goose pimples
have goosebumps
have gooseflesh
have got
have got to
have green in the eye
have had it
have had its day
have had your day
have half a mind to
have hallucinations
have high visibility
have hot pants for
have in
have in contemplation
have in hand
have in mind
have in prospect
have in reserve
have in sight
have in store
have in store for
have in view
have in your eye
have in your grasp
have in your grip
have in your head
have in your mind
have in your possession
have in your power
have independent means
have influence
have influence over
have information about
have intercourse
have it
have it all over
have it all your own way
have it all your way
have it bad
have it both ways at once
have it break good for one
have it coming
have it easy
have it in for
have it made
have it out
have it out of
have it reported
have it soft
have it taped
have it up to here
have its place
have its seat in
have its slot
have its time
have knowledge
have knowledge of
have leverage
have life
have little in common
have little recall
have little to say
have little weight
have lots of laughs
have magnetism
have many irons in the fire
have means
have mercy upon
have money
have money to burn
have more than you can hold
have much ado with
have need to
have nine lives like a cat
have no alternative
have no association with
have no attention span
have no bounds
have no business
have no chance
have no choice
have no claim upon
have no conception
have no desire for
have no diffidence
have no doubt
have no ears
have no end
have no expectation
have no false modesty
have no fight left
have no hand in
have no idea
have no kick coming
have no liking for
have no limit
have no limits
have no lower to go
have no measures with
have no misgivings
have no more
have no notion
have no objection
have no opportunity
have no option but
have no patience with
have no plan
have no qualms
have no recollection of
have no regrets
have no relish for
have no remembrance of
have no reservations
have no right to
have no scruple of
have no second thoughts
have no secrets
have no self-doubt
have no shame
have no taste for
have no term
have no thought of
have no time for
have no time to lose
have no time to spare
have no title to
have no truck with
have no turning
have no use for
have no words for
have not a hope
have not a prayer
have nothing but time
have nothing in common
have nothing on
have nothing to do
have nothing to do with
have occasion for
have on
have on the brain
have on the edge of your memory
have on the hip
have on the tip of the tongue
have on the tip of your tongue
have on your hands
have on your mind
have on your shoulders
have one foot in the grave
have one for the road
have one to know
have origin
have other fish to fry
have other things to do
have out
have patience and endure
have peace one with another
have permission
have personality
have pity 

have place

have play

have plenty of time

have plenty on the ball

have power

have power over

have preference

have prestige

have priority

have proof

have pull

have qualms

have quite enough

have rather

have recourse to

have regard for

have repercussions

have reservations

have run its course

have run out

have savvy

have scruples

have second thoughts

have seen better days

have seen your best days

have seen your day

have sex

have sexual relations

have simple faith in

have smarts

have someone on

have something

have something laid by

have something on

have something on the ball

have something on the brain

have something to draw on

have sown your wild oats

have sternway on

have subject

have suction

have suffrage

have suspicions

have tenure

have tenure of

have tenure of appointment

have that or nothing
have the advantage of
have the appearance of
have the ascendancy
have the audacity
have the bar sinister
have the best of
have the chances against one
have the chances against you
have the cheek
have the cold creeps
have the cold shivers
have the conn
have the creeps
have the deed for
have the drop on
have the ear of
have the facts
have the fidgets
have the flavor of
have the floor
have the force of
have the friendship of
have the function of
have the gall
have the game in your hands
have the game in your own hands
have the gift of gab
have the golden touch
have the goodness
have the goods on
have the grace to
have the guts
have the hang of it
have the idea
have the impression
have the inside track
have the jitters
have the job of
have the jump on
have the knack
have the last laugh on
have the last word
have the latchstring out
have the law of
have the law on
have the look of
have the makings of
have the mastery of
have the mission of
have the nerve
have the odds against one
have the odds against you
have the opinion
have the power
have the prerequisites
have the qualifications
have the right
have the role of
have the run of
have the say
have the say-so
have the sense of
have the shakes
have the start
have the sway
have the top place
have the top spot
have the touch
have the upper hand
have the use of
have the wherewithal
have the whip hand
have the wind of
have the world at your feet
have the worst of it
have thoughts about
have tied to your apron strings
have time
have time enough
have time to spare
have title to
have to
have to answer for
have to do with
have to fall back upon
have to hand it to
have to run for it
have to your name
have too many irons in the fire
have too much
have too much of a good thing
have trouble
have truck with
have two minds
have two strings to your bow
have under control
have undertaken
have up
have up your sleeve
have way upon
have weight
have well in hand
have what it takes
have what you say go
have words
have words with
have you on the ropes
have young
have your back to the wall
have your blood on your head
have your blood up
have your cake and eat it too
have your credit good for
have your doubts
have your ear
have your eye on
have your fill
have your fling
have your hand in the till
have your hands full
have your hands in
have your hands tied
have your head screwed on right
have your heart bleed for
have your heart in your mouth
have your heart set against
have your heart set on
have your innings
have your measure
have your moments
have your monkey up
have your name in lights
have your nerve
have your nose out of joint
have your number
have your options eliminated
have your options reduced
have your own way
have your period
have your place in the sun
have your revenge
have your say
have your time
have your way
have your will
have your wits about you
have-been
have-not
have-nots
have-nots, the
haven cap
haver-corn
haves, the
havey-cavey
havildar major
having a baby
having a block for a head
having a part
having a share
having a voice
having and holding
having cotton between the ears
having life
having title to
haw tree
haw-haw
hawaii time
hawaiian guitar
hawe-bake
hawk bell
hawk call
hawk cuckoo
hawk eagle
hawk fly
hawk moth
hawk nose
hawk owl
hawk parrot
hawk swallow
hawk's nest model
hawk's-beard
hawk's-bell
hawk's-bill
hawk's-eye
hawk-beaked
hawk-billed
hawk-eyed
hawk-faced
hawk-headed
hawk-moth
hawk-nose
hawk-nosed
hawk-owl
hawk-tailed
hawking voice
hawksbill turtle
hawse bag
hawse bolster
hawse hook
hawse timber
hawse-fallen
hawse-full
hawser bend
hawser clamp
hawser fastening
hawser-laid
hawsing iron
hawthorn china
hawthorn pattern
hawthorn tingis
hawthorn wine
hay asthma
hay bacillus
hay baler
hay barrack
hay binder
hay conditioner
hay cutter
hay fern
hay fever
hay hook
hay jack
hay knife
hay loader
hay plant
hay press
hay rig
hay road
hay saffron
hay sweep
hay tedder
hay tit
hay wagon
hay worm
hay-asthma
hay-bird
hay-bote
hay-cock
hay-color
hay-colored
he-man
he-mannish
he-men
he-oak
head and front of your offending
head and head
head and shoulders
head arrangement
head away from
head betony
head blight
head block
head butt
head cold
head collar
head count
head covering
head deformation
head earing
head fast
head flume
head fold
head for
head for blue water
head for the bottom
head form
head gate
head harness
head house
head index
head into
head joint
head kidney
head knee
head lamp
head lettuce
head log
head louse
head maggot
head matter
head metal
head mistress
head mold
head molding
head money
head motion
head netting
head of hair
head of household
head of state
head of the river
head off
head office
head on
head over heels
head over heels in
head over heels in debt
head over heels in love
head pin
head register
head resistance
head sample
head scab
head sea
head shaping
head shrinker
head smut
head space
head spar
head spin
head start
head stool
head straight for
head strapper
head swell
head table
head tax
head the board
head the line
head the table
head to leeward
head to wind
head to windward
head tone
head toward
head tree
head up
head veil
head voice
head waiter
head water
head wind
head windward
head word
head yard
head-aching
head-and-tail light
head-and-tail-light fish
head-block
head-board
head-cloth
head-court
head-dress
head-flattening
head-foremost
head-gear
head-hanging
head-high
head-hunt
head-hunter
head-hunting
head-line
head-load
head-man
head-money
head-note
head-on
head-on attack
head-over-heels
head-pan
head-penny
head-piece
head-plate
head-race
head-rail
head-rope
head-sail
head-shaking
head-splitting
head-stall
head-tire
head-tossing
head-turned
head-voice
headache plant
headache powder
headache tree
headache wafer
headache weed
headed for
headed group
header bond
header tank
header-up
health visitor
health-enhancing
health-preserving
healthy body
healthy constitution
healthy economy
healthy glow
healthy hue
healthy meal
healthy mind
healthy-minded
healthy-mindedly
healthy-mindedness
heap coals of fire on your head
heap dirt upon
heap leaching
heap roasting
heap up
heap upon
heaped-up
heaps of gold
hear a different drummer
hear confession
hear it for
hear nothing
hear of
hear out
hear say
hear shots fired in anger
hear tell of
hear to
hear ye
hearing aid
hearing impairment
hearing loss
hearing-aid battery
hearken to
hearsay evidence
hearsay rule
heart action
heart amulet
heart and soul
heart attack
heart back
heart block
heart bond
heart cam
heart cherry
heart-bond
heart-bound
heart-break
heart-bred
heart-broken
heart-burdened
heart-burning
heart-cheering
heart-chilled
heart-chilling
heart-corroding
heart-deadened
heart-dulling
heart-eating
heart-expanding
heart-fallen
heart-fashioned
heart-felt
heart-flowered
heart-flowered orchid
heart-free
heart-freezing
heart-fretting
heart-gnawing
heart-gripping
heart-happy
heart-hardened
heart-hardening
heart-heaviness
heart-heavy
heart-hungry
heart-ill
heart-leaved
heart-leaved aster
heart-leaved willow
heart-lung machine
heart-melting
heart-moving
heart-piercing
heart-purifying
heart-quake
heart-ravishing
heart-rendering
heart-renderingly
heart-robbing
heart-searching
heart-shaking
heart-shaped
heart-shed
heart-sick
heart-sore
heart-sorrowing
heart-spoon
heart-stirring
heart-stricken
heart-strickenly
heart-strike
heart-strings
heart-struck
heart-swelling
heart-swollen
heart-tearing
heart-thrilling
heart-throb
heart-throbbing
heart-tickling
heart-to-heart
heart-to-heart talk
heart-warm
heart-warming
heart-weariness
heart-weary
heart-whole
heart-wholeness
heart-wise
heart-wood
heart-wounded
heart-wounding
heart-wrung
heartfelt apology
heartfelt grief
hearth and home
hearth cricket
hearth money
hearth tax
hearth-money
hearth-penny
hearth-rug
hearth-stead
hearth-tax
hearts and flowers
hearts-and-flowers
hearty assent
hearty enjoyment
hearty laugh
heat spectrum
heat spot
heat sum
heat the economy
heat therapy
heat treating
heat treatment
heat unit
heat up
heat up the economy
heat wave
heat weight
heat-absorbing
heat-conducting
heat-cracked
heat-drop
heat-engine cycle
heat-forming
heat-full fire
heat-giving
heat-island
heat-killed
heat-laden
heat-loving
heat-oppressed
heat-power engineer
heat-power engineering
heat-producing
heat-radiating
heat-reducing
heat-regulating
heat-resistant
heat-resisting
heat-softened
heat-spot
heat-tempering
heat-treat
heat-treated
heat-treating
heat-treatment
heat-wave
heated imagination
heated up
heater cord
heater piece
heater-shaped
heath aster
heath bell
heath box
heath bramble
heath cock
heath cypress
heath family
heath fern
heath grass
heath grouse
heath hen
heath honeysuckle
heath moss
heath mulberry
heath pea
heath peat
heath poult
heath rush
heath scrub
heath wren
heath-bell
heath-berry
heath-bird
heath-clad
heath-cock
heath-hen
heath-pea
heathen god
heather bell
heather cat
heather grass
heather purple
heather whin
heather wool
heather-bell
heather-bleat
heather-blutter
heating coil
heating degree-day
heating duct
heating element
heating furnace
heating pad
heating pipe
heating plant
heating-up
heauto-
heave a sigh of relief
heave aloft
heave alongside
heave and awash
heave apeak
heave at
heave down
heave ho
heave in sight
heave in together
heave offering
heave out
heave out a sail
heave overboard
heave round
heave short
heave shoulder
heave the gorge
heave the lead
heave the log
heave to
heave-ho
heave-off hinge
heave-offering
heave-shouldered
heaven above
heaven disturber
heaven of heavens
heaven on earth
heaven tree
heaven worshiper
heaven's artillery
heaven's ebon vault
heaven's high city
heaven-accepted
heaven-aspiring
heaven-assailing
heaven-begot
heaven-bent
heaven-born
heaven-bred
heaven-built
heaven-clear
heaven-controlled
heaven-daring
heaven-dear
heaven-defying
heaven-descended
heaven-devoted
heaven-directed
heaven-erected
heaven-fallen
heaven-forsaken
heaven-gate
heaven-gifted
heaven-given
heaven-guided
heaven-high
heaven-inspired
heaven-instructed
heaven-kissing
heaven-lighted
heaven-lit
heaven-made
heaven-prompted
heaven-protected
heaven-reaching
heaven-rending
heaven-sent
heaven-sprung
heaven-sweet
heaven-taught
heaven-threatening
heaven-touched
heaven-warring
heaven-wide
heavenly bamboo
heavenly being
heavenly body
heavenly fruit
heavenly hierarchy
heavenly host
heavenly kingdom
heavenly-minded
heavenly-mindedness
heavens and earth
heavenward tree
heaver-off
heaver-out
heaver-over
heavier-than-air
heavier-than-air craft
heaviness of heart
heaving aloft
heaving pile
heaving up
heaving-line bend
heaviside layer
heavy artillery
heavy as lead
heavy blow
heavy bomber
heavy chemicals
heavy cream
heavy cruiser
heavy demand
heavy dew
heavy dragoon
heavy drinker
heavy drinking
heavy earth
heavy eyelids
heavy field artillery
heavy force fit
heavy hand
heavy harmony
heavy heart
heavy hydrogen
heavy lead
heavy meal
heavy metal
heavy mineral oil
heavy nitrogen
heavy object
heavy oil
heavy on
heavy oxygen
heavy particle
heavy particle counter
heavy pine
heavy platinum group
heavy purse
heavy rain
heavy right foot
heavy sea
heavy sin
heavy sky
heavy sledding
heavy sleep
heavy smoker
heavy solution
heavy spar
heavy swell
heavy thinking
heavy transport
heavy water
heavy weather
heavy wet
heavy wine
heavy with child
heavy with meaning
heavy with significance
heavy with sleep
heavy with young
heavy-armed
heavy-bearded
heavy-blossomed
heavy-bodied
heavy-boned
heavy-booted
heavy-boughed
heavy-drinking
heavy-duty
heavy-eared
heavy-eyed
heavy-faced
heavy-featured
heavy-fisted
heavy-fleeced
heavy-footed
heavy-footedness
heavy-fruited
heavy-gaited
heavy-handed
heavy-handedly
heavy-handedness
heavy-head
heavy-headed
heavy-hearted
heavy-heartedly
heavy-heartenedness
heavy-heeled
heavy-jawed
heavy-laden
heavy-leaved
heavy-lidded
heavy-limbed
heavy-lipped
heavy-looking
heavy-mettled
heavy-mouthed
heavy-paced
heavy-scented
heavy-seeming
heavy-set
heavy-shotted
heavy-shouldered
heavy-shuttered
heavy-smelling
heavy-soled
heavy-tailed
heavy-timbered
heavy-weight
heavy-winged
heavy-witted
heavy-wooded
heb-sed
hebe-
hebephrenic schizophrenia
heck-how
hect-
hectic fever
hectic flush
hecto-
hecto-ampere
hectograph copy
heddle brusher
heddle knitter
hedge about
hedge accentor
hedge apple
hedge bedstraw
hedge bells
hedge bird
hedge cactus
hedge carpenter
hedge chanter
hedge crocus
hedge fumitory
hedge garlic
hedge grape
hedge hyssop
hedge in
hedge laurel
hedge layer
hedge marriage
hedge priest
hedge rose
hedge sparrow
hedge stake
hedge trimmer
hedge your bets
hedge-bird
hedge-bound
hedge-creeper
hedge-hyssop
hedge-pig
hedge-priest
hedge-school
hedge-sparrow
hedged about
hedged about by
hedged by
hedged in
hedged-in
hedged about
hedgehog aloe
hedgehog cactus
hedgehog caterpillar
hedgehog coneflower
hedgehog gourd
hedgehog grass
hedgehog transformer
hedging your bets
hedging-in
hedonic calculus
hedonistic calculus
hee-haw
hee-hee
hee-hee!
heebie jeebies
heebie-jeebies
heedless hap
heel bar
heel block
heel blocker
heel bone
heel breast
heel builder
heel chain
heel clamp
heel cutter
heel fly
heel in
heel jigger
heel nailer
heel of Achilles
heel pad
heel padder
heel ring
heel rope
heel seat
heel seater
heel splitter
heel spur
heel stay
heel tapper
heel tool
heel trimmer
heel wedge
heel-and-toe
heel-and-toe dancer
heel-attaching
heel-ball
heel-bone
heel-breast
heel-breaster
heel-fast
heel-piece
heel-plate
heel-post
heel-rope
heel-tap
heel-way
heeling tank
heels over head
hefty eater
heh deity
heidelberg man
heigh ho
heigh-ho
height block
height board
height district
height finder
height gauge
height measure
height measurement
height of fashion
height of land
height pressure
height to paper
height to surface
height-to-paper
heir apparency
heir apparent
heir at law
heir by destination
heir expectant
heir general
heir in tail
heir of entail
heir of inventory
heir of line
heir of provision
heir of the body
heir portioner
heir presumptive
heir whatsoever
heir-at-law
heiress-ship
heirs apparent
heirs at law
heirs presumptive
held back
held dear
held in awe
held in consideration
held in esteem
held in favor
held in pledge
held in regard
held in reserve
held in respect
held in trust
held out
held up
helen of troy
heli-
heliacal rising
helianthine B
helic-
helical gear
helical rack
helico-
helicoidal saw
helicopter gun ship
helicopter gunship
helio-
heliocentric longitude
heliocentric parallax
heliographic chart
heliotrope gray
helium group
helix angle
hell around
hell bomb
hell broke loose
hell for leather
hell gate
hell hole
hell let loose
hell mouth
hell of a
hell to pay
hell upon earth
hell week
hell's bells
hell's half-acre
hell's kitchen
hell-begotten
hell-bent
hell-bent for election
hell-bent on
hell-bind
hell-black
hell-born
hell-bound
hell-bred
hell-brewed
hell-cat
hell-dark
hell-deep
hell-devil
hell-diver
hell-doomed
hell-driver
hell-engendered
hell-fire
hell-fired
hell-for-leather
hell-gate
hell-hard
hell-hatched
hell-haunted
hell-hound
hell-like
hell-raiser
hell-raker
hell-red
hell-vine
hellebore green
hellebore red
hellish host
hello girl
hello there
helm alee
helm aport
helm astraboard
helm aweather
helm port
helm wind
helm-wind
helmet liner
helmet of hair
helmet quail
helmet shell
helmet-crest
helmet-shaped
helmet-wearing
helmeted guinea fowl
helminth-
help a lame dog over a stile
help along
help bear your grief
help decide
help in time of need
help on its way
help out
help to
help up
help yourself to
helped by
helping along
helping hand
helter-skelter
helter-skelteriness
helve hammer
hem and haw
hem in
hem-
hem-stitch
hema-
hemat-
hematin crystals
hematin paste
hematite red
hemato-
hematocrit value
hematogenic shock
hemi-
hemi-elytrum
hemi-type
hemispherico-conical
hemispherico-conoid
hemlock fir
hemlock parsley
hemlock pitch
hemlock spruce
hemlock-leaved
hemmed in
hemmed-in
hemming-in
hemo-
hemolymph gland
hemolytic anemia
hemophilia A
hemophilia B
hemophilia C
hemophilic arthritis
hemorrhagic measles
hemorrhagic plague
hemorrhagic septicemia
hemp agrimony
hemp nettle
hemp oil
hemp palm
hemp tree
hemp-agrimony
hemp-nettle
hempen bridle
hempen collar
hempen necktie
hempen tippet
hempseed oil
hen and chickens
hen clam
hen coop
hen curlew
hen flea
hen frigate
hen gorse
hen harrier
hen hawk
hen louse
hen mold
hen party
hen pepper
hen plant
hen run
hen scratches
hen track
hen tracks
hen turkey
hen's-foot
hen-and-chickens
hen-coop
hen-driver
hen-egg
hen-fat
hen-feathered
hen-feathering
hen-harrier
hen-hawk
hen-hearted
hen-house
hen-peck
hen-pecked
hen-roost
hen-tailed
hench-boy
hendeca-
hens-and-chickens
hep to
hepar calcis
hepat-
hepato-
hepato-pancreas
hepped up
hepped up over
hepta-
heptadecanoic acid
her infinite variety
her native ornament of hair
herabol myrrh
herald abroad
herald angel
herald's college
herald's trick
herald's trumpet
heraldic device
heraldic heiress
heraldic insignia
heraldic knot
heraldic official
heraldic officials
heralds' college
herb Christopher
herb Gerard
herb Paris
hermes trismegistus
hermetically sealed
hermit crab
hermit crow
hermit order
hermit thrush
hermit warbler
hermo-
hermosa pink
hernio-
hero sandwich
hero worship
hero-shiped
hero-shiping
hero-shipped
hero-shipping
hero-worship
hero-worshiper
hero-worshiping
heroi-comic
heroic act
heroic age
heroic couplet
heroic deed
heroic legend
heroic myth
heroic poetry
heroic stanza
heroic tenor
heroic verse
heron's-bill
herpes facialis
herpes labialis
herpes simplex
herpes zoster
herpet-
herr-ban
herring buss
herring gull
herring hog
herring king
herring oil
herring pond
herring salad
herring work
herring-bone
herring-kale
herring-pond
herring-shaped
herringbone bond
herringbone bridging
herringbone gear
herringbone stitch
herringbone strutting
hertzian wave
hesitant approach
hesitate over
hesitation waltz
hesper-
hesperid-
hessian boot
hessian fly
het up
heter-
hetero-
heterogeneous reactor
heterogeneous system
heterogenous vaccine
heterolytic fission
heterotrophic organism
hew down
hew-hole
hex doctor
hex mark
hex sign
hex-
hexa-
hexacosanoic acid
hexadecanoic acid
hexadecimal notation
hexadecimal system
hexaethyl tetraphosphate
hexagon-drill
hexakis-
hexanedioic acid
hexanoic acid
hexoic acid
hexose sugar
hexyl group
hexyl radical
hey rube
hey-day
hey-day guise
hey-ho
heyday of the blood
heyday of youth
hi ya
hi-fi
hi-fi fan
hiatal hernia
hiatus hernia
hiatus of learning
hiberno-
hic et nunc
hic et ubique
hic jacet
hic-cough
hiccius doccius
hiccup-nut
hick joint
hick town
hick-joint pointing
hickory acacia
hickory aphid
hickory borer
hickory cloth
hickory elm
hickory girdler
hickory moth
hickory nut
hickory oak
hickory oil
hickory phylloxera
hickory pine
hickory poplar
hickory shad
hickory shirt
hickory stripe
hickory twig girdler
hickory wattle
hidden danger
hidden hand
hidden meaning
hidden out
hidden-fruited
hidden-veined
hide away
hide beetle
hide nor hair
hide or hair
hide out
hide rope
hide splitter
hide under
hide your face
hide your hand
hide your head
hide your head in the sand
hide your light under a bushel
hide your trail
hide yourself
hide-and-go-seek
hide-and-seek
hide-out
hidebound disease
hidey hole
hidey-hole
hiding place
hiding power
hidro-
hidy-hole
hie on
hie to
hie yourself to
hielaman tree
hier-
hiera picra
hieratic symbol
hiero-
hig taper
higgledy-piggledy
high aim
high altar
high analysis
high and dry
high and low
high and mighty
high as a kite
high as a steeple
high bar
high beam
high birth
high blood pressure
high blower
high brass
high bunt
high by-pass ratio engine
high camp
high celebration
high chair
high chief
high church
high mightiness
high milling
high muck-a-muck
high noon
high old time
high on the hog
high order
high pitch
high place
high places
high point
high polymer
high pressure
high price
high price tag
high prices
high priest
high priesthood
high principles
high proof
high purpose
high rank
high regard
high relief
high renaissance
high repute
high road
high rod
high roller
high school
high schooler
high sea
high seas
high season
high seat
high sign
high society
high specific activity
high spirits
high spot
high standard of living
high steel
high street
high summer
high table
high tax bracket
high tea
high tech
high tide
high time
high treason
high up
high value
high visibility
high voice
high water
high wind
high wine
high wines
high wire
high wire artist
high words
high yellow
high-aimed
high-aiming
high-altitude bombing
high-altitude flying
high-altitude research aircraft
high-altitude research rocket
high-altitude rocket
high-and-mightiness
high-and-mighty
high-angle fire
high-angle gun
high-angled
high-arched
high-aspiring
high-backed
high-binder
high-blazing
high-blessed
high-blooded
high-blower
high-blown
high-bodiced
high-boiling
high-boned
high-born
high-breasted
high-bred
high-brow
high-browed
high-browish
high-browishly
high-browism
high-built
high-button shoes
high-caliber
high-calorie diet
high-camp
high-case
high-caste
high-ceiled
high-ceilinged
high-churchman
high-class
high-climber
high-climbing
high-collared
high-colored
high-coloured
high-complexioned
high-compression
high-count
high-crested
high-crowned
high-cut
high-density
high-duty
high-elbowed
high-embowed
high-energy particle
high-explosive
high-explosive charge
high-explosive shell
high-falutin
high-faluting
high-fated
high-feathered
high-fed
high-fidelity
high-fidelity speaker
high-fidelity system
high-flavored
high-flier
high-flowing
high-flown
high-flown diction
high-flushed
high-flyer
high-flying
high-flying tippler
high-foreheaded
high-frequency
high-frequency amplification
high-frequency cable
high-frequency current
high-frequency direction finder
high-frequency heater
high-frequency pulse
high-frequency speaker
high-frequency telephony
high-frequency treatment
high-frequency wave
high-gazing
high-geared
high-grade
high-grade bond
high-grade ore
high-grade stock
high-grown
high-handed
high-handedly
high-handedness
high-hat
high-hat cymbals
high-hatted
high-hattedness
high-hatter
high-hattiness
high-hatting
high-hatty
high-headed
high-heaped
high-hearted
high-heel
high-heeled
high-hoe
high-holder
high-hole
high-horned
high-hung
high-intensity lamp
high-judging
high-key
high-keyed
high-level
high-level language
high-level talk
high-lineaged
high-lived
high-living
high-ranking
high-reaching
high-reared
high-resolved
high-rigger
high-rise
high-rise apartment building
high-riser
high-roofed
high-runner
high-school
high-sea
high-seasoned
high-seated
high-set
high-shoe
high-shouldered
high-sided
high-sighted
high-soaring
high-society
high-soled
high-souled
high-sounding
high-sounding words
high-speed
high-speed data handling
high-speed digit computer
high-speed embosser
high-speed memory
high-speed steel
high-speed turn
high-spirited
high-spiritedly
high-spiritedness
high-stepper
high-stepping
high-stomached
high-strung
high-sulphur
high-swelling
high-swollen
high-swung
high-tail
high-tasted
high-temperature cement
high-tempered
high-tension
high-test
high-thoughted
high-throned
high-thundering
high-tide
high-tone
high-toned
high-topped
high-topped shoes
high-tory
high-towered
high-tuned
high-up
high-ups
high-vacuum phototube
high-vaulted
high-velocity
high-vitamin diet
high-voltage
high-voltage probe
high-waisted
high-walled
high-warp
high-water
high-water mark
high-water pants
high-water shrub
high-wing monoplane
high-wire artist
high-wrought
highball glass
highbush blueberry
highbush huckleberry
higher algebra
higher apsis
higher arithmetic
higher criticism
higher echelons
higher education
higher fungus
higher mathematics
higher-up
higher-ups
highest category
highest common factor
highest degree
highest pitch
highest point
highest type
highest-ranking
highfalutin ways
highfaluting ways
highland cranberry
highland cudweed
highland fling
highlight halftone
highly colored imagination
highly considered
highly emotional
highly esteemed
highly regarded
highly reputed
highly respectable
highly satisfied
highly strung
highly touted
highly-wrought
highs sounding
hightail it
highty-tighty
highwall tent
highway engineer
highway engineering
highway marker
highway patrol
highway robber
highway robbery
highway trailer
highways and byways
hike out
hike up
hiking trail
hilaro-tragedy
hill clematis
hill climb
hill climber
hill country
hill folk
hill fox
hill grub
hill heaped upon hill
hill myna
hill oat
hill of beans
hill palm
hill partridge
hill planter
hill station
hill tit
hill-altar
hill-dwelling
hill-fort
hill-girdled
hill-girt
hill-man
hill-side
hill-surrounded
hill-top
hillbilly music
hillock tree
hillside plow
hilly-billy
hinc illae lacrimae
hind end
hind kidney
hind leg
hind legs
hind part
hind shank
hind wing
hind-calf
hind-foremost
hind-gut
hind-head
hind-sight
hinder part
hinge fault
hinge joint
hinge line
hinge on
hinge plate
hinge strap
hinge tooth
hinge upon
hinge-pole
hinged joint
hinging on
hinging post
hinoki cypress
hint at
hip and thigh
hip bath
hip boot
hip boots
hip brier
hip disease
hip flask
hip girdle
hip joint
hip knob
hip lock
hip molding
hip pocket
hip rafter
hip roll
hip roof
hip rose
hip straps
hip tile
hip vertical
hip-and-valley roof
hip-bone
hip-girdle
hip-gout
hip-huggers
hip-joint
hip-roof
hip-roofed
hip-shot
hipo-
hipp-
hipped on
hipped roof
hippety-hop
hippety-hoppety
hippo-
hippocampal convolution
hippocampal gyrus
hippocras bag
hippocratic oath
hire on
hire out
hire purchase
hire purchase plan
hire-purchase
hire-purchase system
hired applauder
hired car
hired girl
hired gun
hired hand
hired help
hired killer
hired limousine
hired man
hiri Motu
hiring hall
hirse grass
hiruto-rufous
his heels
his honor
his lordship
his nibs
his phoenix down
his self
his worship
hispano-
hissing sounds
hist-
histamine shock
histo-
historic episcopate
historical documents
historical error
historical geology
historical linguistics
historical materialism
historical materialist
historical method
historical novel
historical painter
historical painting
historical present
historical present tense
historical records
historical school
historical truth
historico-
historico-ethical
history is bunk
history is merely gossip
history of ideas
history of printing
histrionic art
hit a clinker
hit a clip
hit a nerve
hit a slump
hit a sour note
hit a streak of luck
hit against
hit and miss
hit and run
hit at
hit back at
hit batsman
hit below the belt
hit bottom
hit for
hit home
hit it
hit it big
hit it off
hit it off with
hit it on the nose
hit like lightning
hit man
hit off
hit off on
hit on
hit one for
hit or miss
hit out
hit pay dirt
hit rock bottom
hit show
hit the ball
hit the booze
hit the bottle
hit the brake pedal
hit the campaign trail
hit the ceiling
hit the deck
hit the eye
hit the hay
hit the high spots
hit the jackpot
hit the mark
hit the nail on the head
hit the road
hit the sack
hit the sauce
hit the silk
hit the skids
hit the spot
hit the trail
hit town
hit tune
hit up
hit upon
hit upon a solution
hit you in the eye
hit you where you live
hit-and-miss
hit-and-miss window
hit-and-run
hit-and-run attack
hit-and-run driver
hit-in
hit-off
hit-or-miss
hit-or-missness
hit-run
hit-skip
hitch a ride
hitch and hike
hitch angle
hitch kick
hitch on
hitch pin
hitch rides
hitch up
hitch your wagon to a star
hitch-hiker
hitching post
hitching your wagon to a star
hither and thither
hither and yon
hitting the booze
hitting the bottle
hitting the sauce
hitting-up
hitty-missy
hive bee
hive body
hive dross
hive of industry
hive off
hive sirup
hive vine
ho, hum
ho-bird
ho-ho
ho-hum
hoar-frost
hoar-frosted
hoar-stone
hoard up
hoary age
hoary cress
hoary ehd
hoary hair
hoary-eyed
hoary-feathered
hoary-haired
hoary-headed
hoary-headed joke
hoary-leaved
hoary-white
hob ferret
hob tap
hob-and-nob
hob-nob
hob-thrush
hobble skirt
hobble-bush
hobbling pilot
hobby shop
hobby-horse
hobnail glass
hobnailed shoes
hobnob with
hobo camp
hobo jungle
hobson's choice
hobson-jobson
hoc anno
hoe est
hock a tchainik
hock cockle
hock leg
hock shop
hock-cart
hock-day
hockey cart
hockey gloves
hockey skate
hockey skates
hockey stick
hocking ale
hocus-pocus
hocus-pocused
hog's back
hog's bean
hog's fennel
hog's pudding
hog's-back
hog- wash
hog-backed
hog-brace
hog-cote
hog-deer
hog-faced
hog-fat
hog-fish
hog-frame
hog-louse
hog-maned
hog-mouthed
hog-necked
hog-nose
hog-nose snake
hog-nosed
hog-nut
hog-plum
hog-raising
hog-reeve
hog-score
hog-skin
hog-tie
hog-tied
hog-tight
hog-trough
hog-wash
hog-wild
hogen mogen
hoger pump
hogging-frame
hognose snake
hognosed skunk
hohl-flute
hoi polloi
hoisin sauce
hoist a banner
hoist by
hoist by your own petard
hoist loader
hoist sail
hoist the blue Peter
hoist the white flag
hoist with
hoist-
hoisting gaff
hoisting machine
hoisting yard
hoity-toitness
hoity-toity
hoity-toityism
hoity-toityness
hoke act
hoke comic
hoke up
hoker moker
hokey cokey
hokey-pokey
hokum act
hokum comic
hol-
hold a brief for
hold a candle to
hold a card
hold a close wind
hold a conversation
hold a course
hold a funeral
hold a heading
hold a high opinion of
hold a loose rein
hold a low opinion of
hold a meeting
hold a middle course
hold a post
hold a press conference
hold a seance
hold a session
hold a sitting
hold a tight hand upon
hold aces
hold against
hold aloof
hold aloof from
hold an idea
hold as
hold at bay
hold at your beck and call
hold away from
hold back
hold beam
hold beneath contempt
hold beneath one
hold by
hold captive
hold cheap
hold communication
hold control
hold court
hold dear
hold down
hold down a job
hold everything
hold fast
hold for
hold for ransom
hold forth
hold forth without interruption
hold good
hold hands
hold in
hold in abomination
hold in bondage
hold in captivity
hold in check
hold in consideration
hold in contempt
hold in custody
hold in derision
hold in esteem
hold in fee simple
hold in hand
hold in leading strings
hold in leash
hold in low esteem
hold in mind
hold in restraint
hold in reverence
hold in solution
hold in subjection
hold in swaddling clothes
hold in the thoughts
hold in thrall
hold in view
hold it
hold it against
hold jubilee
hold membership
hold no brief for
hold off
hold office
hold on
hold on a course
hold on like a bulldog
hold on the course
hold on to
hold opposite views
hold out
hold out a helping hand
hold out against
hold out an expectation
hold out hope
hold out on
hold out promise
hold out the hand
hold out the olive branch
hold out the right of fellowship
hold out the right of friendship
hold over
hold over your head
hold prisoner
hold spellbound
hold steady
hold steady for
hold the attention
hold the bag
hold the belief
hold the course
hold the field
hold the fort
hold the helm
hold the interest
hold the line
hold the market
hold the memory of
hold the mirror up to nature
hold the phone
hold the prerogative
hold the promptbook
hold the proxy of
hold the purse strings
hold the reins
hold the ring of truth
hold the sack
hold the scales
hold the stage
hold the thought
hold the wire
hold tight
hold to
hold together
hold true
hold under close arrest
hold under house arrest
hold up
hold up in the wash
hold up the hand
hold up the mirror to
hold up to public ridicule
hold up to public scorn
hold up to public shame
hold up to reprobation
hold up to shame
hold up to view
hold up your hand
hold up your head
hold water
hold with
hold yard
hold your breath
hold your course
hold your end up
hold your eye
hold your gaze
hold your ground
hold your hand
hold your head above water
hold your head high
hold your horses
hold your jaw
hold your lip
hold your nose in the air
hold your own
hold your path
hold your peace
hold your sides
hold your tongue
hold your way
hold yourself aloof
hold yourself apart
hold yourself erect
hold yourself in readiness
hold yourself stiff
hold yourself straight
hollow horn
hollow hunger
hollow man
hollow mockery
hollow newel
hollow organ
hollow out
hollow pretense
hollow sea
hollow shell
hollow threat
hollow truce
hollow ware
hollow-back
hollow-backed
hollow-billed
hollow-cheeked
hollow-chested
hollow-eyed
hollow-footed
hollow-forged
hollow-forging
hollow-fronted
hollow-ground
hollow-hearted
hollow-horned
hollow-jawed
hollow-pointed
hollow-root
hollow-toned
hollow-toothed
hollow-vaulted
hollow-voiced
hollow-ware
holly fern
holly green
holly oak
holly-green
holly-leaved
hollyhock anthracnose
hollyhock fungus
hollyhock rust
hollywood bed
holm cock
holm oak
holm thrush
holm tree
holm-oak
holm-tree
holo-
holocrine gland
holographic will
holstein-friesian
holster pipe
holus-bolus
holy Christ
holy Christmas
holy Moses
holy bread
holy cats
holy city
holy clover
holy communion
holy cow
holy cross
holy day
holy day of obligation
holy days
holy dollar
holy father
holy fire
holy ghost
holy grail
holy grass
holy hour
holy innocents’ day
holy joe
holy land
holy mackerel
holy man
holy matrimony
holy mess
holy of holies
holy office
holy oil
holy order
holy orders
holy place
holy rite
holy roller
holy roman empire
holy rood
holy saturday
holy see
holy shit
holy smoke
holy spirit
holy stone
holy synod
holy table
holy terror
holy thistle
holy thursday
holy tide
holy war
holy water
holy water sprinkle
holy water sprinkler
holy wedlock
holy week
holy well
holy writ
holy year
holy-day
holy-minded
holy-mindedness
holy-water basin
holy-water font
holy-water sprinkler
holy-water stoup
hom-
home address
home appliance
home base
home brew
home builder
home circle
home defense army
home dweller
home economics
home economist
home free
home fried potatoes
home fries
home front
home furnishings
home guard
home in on
home is where you start
home life
home mission
home missionary
home office
home on
home permanent
home place
home plate
home range
home reserve
home reserves
home roof
home room
home rule
home ruler
home run
home sheltered
home signal
home station
home stretch
home study
home sweet home
home teacher
home thrust
home tie
home town
home towner
home truth
home-
home-abiding
home-along
home-baked
home-born
home-bred
home-brew
home-brewed
home-bringing
home-building
home-built
home-come
home-coming
home-driven
home-dwelling
home-faring
home-fed
home-felt
home-going
home-growing
home-grown
home-keeping
home-killed
home-loving
home-made
home-owning
home-raised
home-reared
home-sailing
home-sent
home-sick
home-staying
home-thrust
home-woven
homeless waif
homely as a mud fence
homely enough to sour milk
homely enough to stop a clock
homeo-
homeopathic dose
homeopathic magic
homestead law
homeward bound
homeward-bound
homeward-bounder
homicidal maniac
homing device
homing guidance
homing pigeon
homing rocket
homing torpedo
hominy grits
homme de cour
homme moyen sensuel
homo faber
homo sapiens
homo signorum
homo-
homo-hetero-analysis
homo-organ
homoeo-
homogeneous coordinates
homogeneous reactor
homogenized milk
homogentisic acid
homi-
homoio-
homologous chromosomes
homologous vaccine
homographic projection
homolosine projection
homolytic fission
homonymous construction
homosexual marriage
homosexual neurosis
homothetic transformation
hone for
honest as the day is long
honest injun
honest man
honest person
honest sweat
honest woman
honest-to-God
honey ant
honey badger
honey bag
honey ball
honey balm
honey bear
honey beige
honey bell
honey bird
honey blond
honey bottle
honey bread
honey bunch
honey buzzard
honey cake
honey cherry
honey child
honey clover
honey creeper
honey crisp
honey eater
honey extractor
honey fly
honey fungus
honey garlic
honey gilding
honey gland
honey grass
honey guide
honey jack
honey kite
honey locust
honey lotus
honey maker
honey making
honey mesquite
honey moth
honey mouse
honey mushroom
honey palm
honey plant
honey ratel
honey sac
honey stomach
honey tree
honey tube
honey up
honey vine
honey weasel
honey whip
honey yellow
honey-bear
honey-bearing
honey-bee
honey-bird
honey-blond
honey-bloom
honey-buzzard
honey-color
honey-colored
honey-dew
honey-drop
honey-dropping
honey-eater
honey-eating
honey-flower
honey-flowing
honey-gathering
honey-guide
honey-heavy
honey-laden
honey-loaded
honey-month
honey-mouthed
honey-pot
honey-secreting
honey-stalks
honey-steeped
honey-stone
honey-stored
honey-storing
honey-sweet
honey-tasting
honey-tongued
honey-voiced
honey-yielding
honeycomb coral
honeycomb isinglass
honeycomb moth
honeycomb radiator
honeycomb ringworm
honeycomb sponge
honeycomb stitch
honeycomb stomach
honeycomb tripe
honeycomb work
honeydew melon
honeyed phrases
honeyed tongue
honeyed words
honeymoon bridge
honesuckle apple
honesuckle clover
honesuckle family
honesuckle grass
honesuckle ornament
honesuckle tree
honi soit qui mal y pense
honk the horn
honky-tonk
honor a bill
honor be to
honor before
honor bright
honor card
honor guard
honor man
honor medal
honor point
honor price
honor roll
honor society
honor system
honor trick
honor-bound
honor-fired
honor-giving
honor-owing
honor-thirsty
honorable descent
honorable discharge
honorable mention
honorable ordinary
honorary canon
honorary member
honoris causa
honors course
honors of war
honour school
honourable discharge
honours list
honours of war
hoo-ha
hooch hound
hood cap
hood clock
hood end
hood molding
hood mould
hood-crowned
hood-mould
hood-shaped
hooded barley
hooded crow
hooded grass
hooded matweed
hooded seal
hooded top
hooded warbler
hoodie crow
hoodman-blind
hoof foot
hoof it
hoof-and-mouth disease
hoof-bound
hoof-cast
hoof-cut
hoof-plowed
hoof-printed
hoof-shaped
hoofed animal
hook a ride
hook and butt
hook and eye
hook and ladder
hook bolt
hook check
hook climber
hook gauge
hook in
hook into
hook it
hook ladder
hook maker
hook money
hook pin
hook rug
hook scarf
hook screw
hook shot
hook slide
hook spanner
hook squid
hook up
hook up with
hook wrench
hook, line, and sinker
hook-and-ladder
hook-and-ladder company
hook-and-ladder truck
hook-armed
hook-backed
hook-beaked
hook-bill
hook-billed
hook-collector transistor
hook-handed
hook-headed
hook-nose
hook-nosed
hook-shaped
hook-shouldered
hook-snouted
hook-tipped
hook-up
hooked into
hooked on
hooked rug
hookem-snivey
hooker-off
hooker-on
hooker-out
hooker-over
hooker-up
hookup wire
hookworm disease
hooky-crooky
hoop ash
hoop back
hoop bundler
hoop iron
hoop petticoat
hoop pine
hoop shell
hoop skirt
hoop snake
hoop tension
hoop tree
hoop willow
hoop withe
hoop-back
hoop-coop plant
hoop-la
hoop-petticoat
hoop-petticoat narcissus
hoop-shaped
hoop-stick
hooping-cough
hoopla campaign
hoosier town
hoot owl
hoot toot
hootchie-kootchie
hootchy-kootch
hootchy-kootchies
hootchy-kootchy
hootchy-kootchy show
hoover apron
hop along
hop aphid
hop back
hop borer
hop clover
hop dog
hop flea beetle
hop flour
hop fly
hop froth fly
hop gland
hop grub
hop hornbeam
hop in
hop into
hop jack
hop kiln
hop looper
hop louse
hop meal
hop merchant
hop mildew
hop mold
hop moth
hop off
hop oil
hop plant
hop plant borer
hop sack
hop sacking
hop step and jump
hop to it
hop tree
hop trefoil
hop up
hop-about
hop-garden
hop-o’-my-thumb
hop-o-my-thumb
hop-picker
hop-sack
hop-sacking
hop-shaped
hop-yard
hope against hope
hope and pray
hope chest
hope deferred
hope for
hope for the best
hope in
hope to God
hope to die
hoped-for
hopeful prognosis
hopeless case
hoping against hope
hoplo-
hopped up
hopped-up
hopper barge
hopper car
hopper casement
hopper closet
hopper dredge
hopper frame
hopper light
hopper salt
hopper vent
hopper window
hopper-bottom car
hopper-shaped
hopping John
hopping mad
hopvine moth
hopvine thecla
horehound motherwort
horizon blue
horizon distance
horizon glass
horizontal axis
horizontal bar
horizontal deflector
horizontal engine
horizontal fault
horizontal fire
horizontal line
horizontal mobility
horizontal parallax
horizontal plane
horizontal projection
horizontal stabilizer
horizontal synchronizer
horizontal synchronizing pulse
horizontal union
hormic psychology
hormic theory
horn alligator
horn arrester
horn balance
horn bar
horn bowsprit
horn bug
horn chestnut
horn die
horn fly
horn gap
horn gate
horn in
horn knot
horn lead
horn of Amalthea
horn of plenty
horn ore
horn player
horn poppy
horn pout
horn pox
horn reflector
horn silver
horn timber
horn-book
horn-eyed
horn-fish
horn-footed
horn-mad
horn-madness
horn-owl
horn-plate
horn-rimmed
horn-rimmed glasses
horn-rims
horn-shaped
horn-silver
horn-wood
hornbill cuckoo
hornblende schist
hornblende-gabbro
horned dinosaur
horned lark
horned lizard
horned owl
horned poppy
horned pout
horned rattlesnake
horned screamer
horned snake
horned toad
horned viper
horned whiff
hornet comb
hornet fly
hornet's nest
hornless cow
horns of a dilemma
horny coral
horny-fingered
horny-fisted
horny-hoofed
horny-knuckled
horny-nibbed
horny-toad
horror picture
horror vacui
horror-crowned
horror-fraught
horror-inspiring
horror-loving
horror-stricken
horror-struck
hors concours
hors d'oeuvre
hors d'oeuvres
hors de combat
horse aloes
horse ant
horse around
horse artillery
horse bean
horse blanket
horse block
horse boat
horse boot
horse bot
horse bow
horse box
horse brass
horse brier
horse chanter
horse chestnut
horse clipper
horse conch
horse coper
horse courser
horse dam
horse dealer
horse devil
horse doctor
horse drench
horse driver
horse duck
horse elder
horse emmet
horse fiddle
horse fly
horse gentian
horse gentler
horse ginseng
horse godmother
horse gowan
horse guard
horse hoe
horse iron
horse latitudes
horse laugh
horse litter
horse louse
horse mackerel
horse marine
horse master
horse mint
horse mushroom
horse nettle
horse nop
horse of a different color
horse of another color
horse opera
horse parlor
horse pick
horse pistol
horse plum
horse post
horse race
horse racer
horse racing
horse railroad
horse railway
horse rake
horse rasp
horse rough
horse savin
horse scraper
horse sense
horse show
horse sickness
horse soldier
horse sugar
horse tail
horse thistle
horse tick
horse timber
horse towel
horse trade
horse trader
horse trading
horse trainer
horse training
horse wrangler
horse's ass
horse's neck
horse-and-buggy
horse-back
horse-bitten
horse-block
horse-boat
horse-box
horse-boy
horse-bread
horse-breaker
horse-car
horse-chestnut
horse-collar
horse-coper
horse-corser
horse-course
horse-dealing
horse-drawn
horse-eye
horse-faced
horse-fair
horse-fish
horse-flesh
horse-fly
horse-foot
horse-godmother
horse-guard
horse-head
horse-hoe
horse-hoof
horse-hour
horse-jockey
horse-laugh
horse-leech
horse-litter
horse-load
horse-loving
horse-mackerel
horse-marine
horse-master
horse-matcher
horse-mill
horse-mint
horse-nail
horse-owning
horse-play
horse-plum
horse-pond
horse-power
horse-pox
horse-race
horse-radish
horse-scorser
horse-sense
horse-tail
horse-taming
horse-trade
horse-traded
horse-trading
horseback rider
horseback riding
horseflesh ore
horsefoot snipe
horsehair worm
horseless carriage
horsepower-hour
horsepower-year
horseshoe arch
horseshoe back
horseshoe bat
horseshoe crab
horseshoe kidney
horseshoe magnet
horseshoe nail
horseshoe snake
horseshoe-shaped
horsetail agaric
horsetail mushroom
horsetail tree
horsing around
hortatory address
hortus clusus
hortus siccus
hose cart
hose cock
hose company
hose down
hose duck
hose grass
hose hook
hose jacket
hose reel
hose truck
hose-in-hose
hose-net
hosing down
hospital administrator
hospital bed
hospital cleanliness
hospital corner
hospital fever
hospital gangrene
hospital light
hospital lock
hospital room
hospital service contract
hospital ship
hospital staff
hospital station
hospital steward
hospital train
hospital window
hospitalization insurance
host of heaven
host of hell
host plant
hostages to fortune
hostel school
hostess gown
hostess house
hostess-ship
hostile criticism
hostile expedition
hostile personality
hostile reaction
hostile witness
hot about
hot air
hot as blazes
hot as fire
hot as hell
hot as pepper
hot as the hinges of hell
hot atom
hot bath
hot bed
hot blast
hot blood
hot box
hot buttered rum
hot cake
hot cereal
hot chisel
hot chocolate
hot circuit
hot cockles
hot cold-working
hot corner
hot cross bun
hot day
hot diggety
hot dog
hot economy
hot enough to roast an ox
hot flash
hot for
hot galvanizing
hot goods
hot head
hot iron
hot issue
hot items
hot jazz
hot lead
hot lick
hot light
hot line
hot luncheon
hot metal
hot money
hot number
hot off the fire
hot off the griddle
hot off the press
hot off the spit
hot on
hot pack
hot pack method
hot pants
hot pepper
hot place
hot plate
hot pot
hot potato
hot press
hot pursuit
hot roast beef sandwich
hot rod
hot rodder
hot sauces
hot seat
hot shot
hot shower
hot spot
hot spring
hot stuff
hot switch
hot tear
hot temper
hot tip
hot toddy
hot trimmer
hot type
hot under the collar
hot up
hot war
hot water
hot wave
hot weather
hot well
hot wind
hot ziggety
hot-air
hot-air artist
hot-air balloon
hot-air engine
hot-air heat
hot-air heating
hot-air treatment
hot-air-heat
hot-air-heated
hot-blast
hot-blast system
hot-blooded
hot-bloodedness
hot-brain
hot-breathed
hot-bright
hot-broached
hot-bulb engine
hot-cathode tube
hot-cold
hot-deck
hot-dip coating
hot-dipped
hot-dog
hot-dog stand
hot-draw
hot-wire meter
hot-wire microphone
hot-work
hot-work steel
hotbed sash
hotel broker
hotel detective
hotel lock
hotel manager
hotel rack
hothouse lamb
hotsy-totsy
hotted up
hough-sinew
hound dog
hound on
hound to destruction
hound's tooth
hound's-tongue
hound's-tooth
hound's-tooth check
hound-dog
hound-fish
hound-marked
hounds-berry
houndstooth check
hour after hour
hour angle
hour bell
hour book
hour by hour
hour circle
hour hand
hour line
hour plate
hour stroke
hour watch
hour wheel
hour-circle
hour-glass
hour-long
hourglass figure
hourglass of time
hourglass screw
hourglass spider
hourglass spring
hourglass stomach
hourglass worm
hourglass-shaped
house agent
house and grounds
house and lot
house ant
house arrest
house barge
house built on sand
house car
house cat
house centipede
house chambermaid
house cleaner
house counsel
house crow
house curtain
house decorator
house detective
house dick
house divided against itself
house doctor
house dog
house dove
house drain
house dress
house duty
house factor
house farmer
house finch
house flag
house furnisher
house furnishing
house furnishings
house god
house guest
house holly fern
house in
house jobber
house knacker
house lights
house manager
house martin
house mosquito
house mouse
house mover
house moving
house of God
house of assembly
house of assignation
house of burgesses
house of cards
house of commons
house of correction
house of death
house of delegates
house of detention
house of ill fame
house of ill repute
house of joy
house of life
house of lords
house of prayer
house of prostitution
house of representatives
house of worship
house organ
house painter
house party
house physician
house place
house plan
house plant
house servant
house slipper
house snake
house sparrow
house staff
house steward
house surgeon
house tax
house track
house trailer
house trap
house trim
house wagon
house wrecker
house wren
house-boat
house-broken
house-builder
house-cap
house-craft
house-dog
house-dove
house-father
house-headship
house-mother
house-place
house-proud
house-raising
house-room
house-search
house-to-house
house-to-house combat
house-top
house-train
house-warming
housed string
household ammonia
household art
household cavalry
household effects
household franchise
household goddess
household gods
household goods
household name
household suffrage
household troop
household troops
household word
household words
household-stuff
housemaid's knee
housey-housey
housing bill
housing development
housing estate
housing problem
housing project
housing scheme
hove to
hover fly
hover hawk
hover over
hovering accent
hovering act
how about that
how are you
how come
how do
how do you do
how does she head
how far
how goes it
how is it that
how is your rudder
how it goes
how it is
how now
how should I know
how the land lies
how the wind blows
how they fall
how things are
how things stack up
how things stand
how you doin'
how's every little thing
how's the world treating you
how's things
how's tricks
how-d'ye-do
how-de-do
how-do-ye
how-do-ye-do
how-do-you-do
how-to
how-to book
howdy-do
however that may be
howgozit curve
howl down
howl like all the devils of hell
howler monkey
howling monkey
howling success
howling wilderness
howling wind
hoyle shooting
hr factor
hr-
hub a dub
hub borer
hub brake
hub braking
hub driller
hub dynamometer
hub maker
hub odometer
hub of industry
hub turner
hub-band
hub-bander
hub-banding
hub-boring
hub-deep
hub-turning
hubba hubba
hubble-bubble
huckle-bone
hudder-mudder
huddle on
hudson seal
hue and cry
hue cycle
huff and puff
huff-cap
huff-duff
huff-shouldered
huff-snuff
hug the coast
hug the earth
hug the land
hug the shore
hug yourself
hug-me-tight
huge-armed
huge-bellied
huge-bodied
huge-boned
huge-built
huge-grown
huge-horned
huge-jawed
huge-limbed
huge-looking
huge-proportioned
huge-tongued
hugger-mugger
hugger-muggeries
hugger-muggery
hula girl
hula hoop
hula skirt
hula-hula
hull balance
hull down
hull efficiency
hull girder
humble-minded
humble-mindedly
humble-mindedness
humble-spirited
humble-visaged
hummed pride
humbug-proof
humeral veil
humero-
humero-olecranal
humic acid
humid weather
humidity control
humidity indicator
humidity instrument
humidity wind rose
humidity-proof
humiliate yourself
humite group
hummel corn
humming top
humming-bird
hummingbird moth
hump it
hump speed
hump yard
hump yourself
hump-backed
hump-shaped
hump-shoulder
hump-shouldered
humpback bridge
humpback whale
humpbacked salmon
humped cattle
humpty dumpty
humpty-dumpty
hunch down
hundred days
hundred per cent
hundred's place
hundred-dollar
hundred-dollar bill
hundred-eyed
hundred-feathered
hundred-footed
hundred-handed
hundred-headed
hundred-leaf
hundred-leaved
hundred-legged
hundred-legs
hundred-mile
hundred-percent
hundred-percent American
hundred-percenter
hundred-pound
hundred-pounder
hundred-to-one shot
hundred-yard dash
hundred-year
hundreds and thousands
hundredth's place
hung jury
hung over
hung up
hung up on
hung-up
hunger after
hunger belt
hunger for
hunger grass
hunger march
hunger marcher
hunger strike
hunger striker
hunger-bit
hunger-bitten
hunger-driven
hunger-mad
hunger-pressed
hunger-starve
hunger-stricken
hunger-stung
hunger-worn
hungry as a bear
hungry mouth
hungry rice
hunk of a man
hunker down
hunky-dory
hunt and peck
hunt board
hunt box
hunt button
hunt down
hunt for
hunt in couples
hunt out
hunt table
hunt the slipper
hunt through
hunt up
hunt's-up
hunter green
hunter trials
hunter's green
hunter's moon
hunter's pink
hunter's robe
hunter-killer submarine
hunting box
hunting cap
hunting case
hunting cat
hunting chair
hunting cry
hunting dog
hunting expedition
hunting ground
hunting horn
hunting knife
hunting leopard
hunting license
hunting lodge
hunting miter
hunting shirt
hunting spider
hunting sword
hunting trip
hunting watch
hunting-ground
huntsman's-cup
hurdle race
hurdle racer
hurdle work
hurdles, the
hurdy-gurdies
hurdy-gurdist
hurdy-gurdy
hurdy-gurdy man
hurdy-gurdyist
hurl a brickbat
hurl against
hurl at
hurl at the head of
hurl defiance
hurl forth
hurl-bone
hurley stick
hurley-hacket
hurly burly
hurly-burlies
hurly-burly
hurr-bur
hurrah campaign
hurricane bird
hurricane deck
hurricane globe
hurricane house
hurricane hunter
hurricane lamp
hurricane lantern
hurricane signal
hurricane tracking
hurricane warning
hurricane-decked
hurricane-force wind
hurricane-hunter aircraft
hurricane-proof
hurry about
hurry along
hurry away
hurry call
hurry off
hurry on
hurry through
hurry up
hurry-burry
hurry-scurried
hurry-scurry
hurry-scurrying
hurry-scurried
hurry-skurried
hurry-skurry
hurry-skurrying
hurry-up
hurst beech
hurt the feelings
husband and wife
husband your resources
husband-to-be
hush as death
hush money
hush my mouth
hush of night
hush puppy
hush ship
hush shop
hush tube
hush up
hush your mouth
hush-boat
hush-hush
hush-money
hush-up
hushed attention
hushed-up
husk corn
husk tomato
husk-tomato
husking bee
husking glove
husking peg
husky eater
hustings court
hustle out
hustle up
hustle-cap
hut circle
hut-keep
hut-shaped
hutch table
hutia carabali
hutia conga
hw-
hy-spy
hyacinth bacteriosis
hyacinth bean
hyacinth blue
hyacinth red
hyacinth squill
hyacinth violet
hyacinth-flowered
hyal-
hyaline cartilage
hyaline degeneration
hyaline membrane disease
hyalo-
hyaloid membrane
hyaluronic acid
hydro-aeroplane
hydro-airplane
hydro-electric
hydro-jet
hydro-pneumatic
hydro-ski
hydro-ureter
hydrobromic acid
hydrocarbon cement
hydrochloric acid
hydrocinnamic aldehyde
hydrocinnamoyl group
hydrocinnamoyl radical
hydrocinnamyl group
hydrocinnamyl radical
hydrocyanic acid
hydroelectric plant
hydroelectric power
hydrofluoric acid
hydrogen arsenide
hydrogen blast
hydrogen bomb
hydrogen bond
hydrogen bromide
hydrogen carbonate
hydrogen chloride
hydrogen cyanide
hydrogen dioxide
hydrogen electrode
hydrogen fluoride
hydrogen iodide
hydrogen ion
hydrogen oxide
hydrogen peroxide
hydrogen selenide
hydrogen silicide
hydrogen sulfide
hydrogen sulphate
hydrogen sulphide
hydrogen sulphite
hydrogen tartrate
hydrogen telluride
hydrogen-bomb
hydrogenated fat
hydrographic chart
hydrographic oceanographic
hydrologic cycle
hydromellitic acid
hydrometric pendulum
hydronium ion
hydrophobia cat
hydrostatic balance
hydrostatic head
hydrosulfurous acid
hydrosulphurous acid
hydrotelluric acid
hydrothermal water
hydroxide ion
hydroxonium ion
hydroxy acid
hydroxy aldehyde
hydroxy ketone
hydroxy-
hydroxyacetic acid
hydroxybenzoic acid
hydroxybutyric acid
hydroxyl group
hydroxyl radical
hydroxysuccinic acid
hyena poison
hyena-dog
hyet-
hyetal wind rose
hyeto-
hygr-
hygro-
hyl-
hylo-
hymeneal rites
hymeno-
hymn book
hymn maker
hymn making
hymn of praise
hymn singer
hymn singing
hymn tune
hymn writer
hymn writing
hymn-loving
hymn-tune
hymnal stanza
hyo-
hyodeoxycholic acid
hyodesoxycholic acid
hyoid bone
hyp-
hypabyssal rock
hyped up
hyper-
hyper-Dorian
hyperbaric therapy
hyperbolic function
hyperbolic geometry
hyperboreal blast
hyperborean blast
hyperchromic anemia
hypercomplex number
hyperemesis gravidarum
hyperesthesia theory
hyperfine structure
hyperfocal distance
hypergeometric distribution
hypergeometric equation
hypergeometric function
hyperplastic inflammation
hypersonic speed
hypertensive heart disease
hypertrophic arthritis
hypertrophic inflammation
hyphenated American
hypn-
hypnagogic image
hypno-
hypnotic sleep
hypnotic somnolence
hypnotic suggestion
hypnotic trance
hypo ionian mode
hypo-
hypo-alum
hypo-ovarianism
hypoaeolian mode
hypoantimonic acid
hypochlorous acid
hypochromic anemia
hypocotyl arch
hypocrite plant
hypodermic injection
hypodermic needle
hypodermic syringe
hypodermic tablet
hypodorian mode
hypodynamia cordis
hystero-epilepsy
hystero-epileptic
hystero-epileptogenic
hystero-oophorectomy
hystero-salpingostomy
hysterone proteron
hysterone-proteron
i beam
i-
i-come
i-cried
i-fere
i-type semiconductor
i-
iambic pentameter
iatro-
iatrogenic disease
ibn-Batuta
ibn-Rushd
ibn-Saud
ibn-Sina
ice age
ice anchor
ice apron
ice ax
ice axe
ice bag
ice banner
ice barrier
ice beam
ice bear
ice belt
ice bird
ice bridge
ice bucket
ice bulletin
ice calorimeter
ice canoe
ice cap
ice cave
ice chest
ice chipper
ice chopper
ice claw
ice code
ice collar
ice color
ice concret
ice cream
ice creeper
ice crusher
ice crystal
ice crystals
ice cube
ice cuber
ice cubes
ice cutter
ice dealer
ice dike
ice dock
ice drag
ice duck
ice feathers
ice fern
ice field
ice fish
ice fishing
ice floe
ice flower
ice flowers
ice fog
ice foot
ice fork
ice fox
ice front
ice glass
ice gorge
ice gull
ice gush
ice hockey
ice hook
ice house
ice island
ice jam
ice lance
ice lead
ice line
ice lolly
ice machine
ice maker
ice making
ice master
ice milk
ice nail
ice needle
ice over
ice pack
ice pail
ice paper
ice partridge
ice pellets
ice period
ice petrel
ice pick
ice pillar
ice pilot
ice pink
ice pinnacle
ice plant
ice plow
ice point
ice raft
ice rain
ice rampart
ice rink
ice river
ice run
ice scraper
ice shaver
ice shed
ice sheet
ice shelf
ice ship
ice show
ice skate
ice skates
ice skating
ice sky
ice spar
ice spur
ice stick
ice storm
ice stream
ice ton
ice tongs
ice tongue
ice up
ice water
ice whale
ice yacht
ice yachting
ice yachtsman
ice-bird
ice-blind
ice-boat
ice-bolt
ice-bound
ice-breaker
ice-breaking
ice-brook
ice-built
ice-cap
ice-capped
ice-chipping
ice-clad
ice-cold
ice-cool
ice-cooled
ice-covered
ice-cream
ice-cream cone
ice-cream fork
ice-cream freezer
ice-cream soda
ice-cream sundae
ice-crushing
ice-crusted
ice-cube
ice-cube machine
ice-cubing
ice-cutting
ice-encrusted
ice-enveloped
ice-fall
ice-field
ice-floe
ice-foot
ice-free
ice-green
ice-hill
ice-hook
ice-house
ice-imprisoned
ice-island
ice-laid
ice-locked
ice-master
ice-mountain
ice-plant
ice-plough
ice-scoured
ice-sheet
idee fixe
idee-force
idee-maitresse
identical equation
identical proposition
identical rhyme
identical same
identical twin
identical twins
identification badge
identification bracelet
identification light
identification mark
identification parade
identification space
identification tag
identification thread
identified as
identify with
identify yourself with
identity card
identity crisis
identity matrix
identity theory of mind
ideo-
ideo-unit
ideogrammatic character
ideogrammatic symbol
ideogrammic character
ideogrammic symbol
ideographic character
ideographic symbol
ideopathic epilepsy
ides of March
idio-
idiom dictionary
idiomorphic-granular
idiot board
idiot box
idiot card
idiot savant
idiot savants
idiot sheet
idiot stitch
idiot work
idiot's delight
idiotic grin
idiots savants
idle away
idle away time
idle chat
idle chatter
idle chatterer
idle current
idle fancy
idle gear
idle gossip
idle hands
idle hours
idle pulley
idle rich
idle talk
idle threat
idle wheel
idle-brained
idle-handed
idle-headed
idle-looking
idle-minded
idle-pated
idle-witted
idler gear
idler pulley
idler wheel
idol breaker
idol worship
idol worshiper
idol worshiping
idolo-
idols of the cave
idols of the forum
idols of the market place
idols of the theater
idols of the tribe
idonic acid
ie-
ier-oe
if and only if
if and when
if at all
if ever
if humanly possible
if it be so
if it be true that
if it should happen that
if it so happens
if it turns out
if necessary
if need be
if not
if only
if possible
if worst comes to worst
if you please
if you wish
if-clause
ife hemp
ignatius' bean
igneous rock
ignes fatui
igni-
ignis fatuous
ignis fatuus
ignition cable
ignition cap
ignition charge
ignition key
ignition point
ignition temperature
ignition tube
ignobile vulgus
ignominious defeat
ignoratio elenchi
ignore grammar
ignore it
ignore opportunity's knock
ignotum per ignotius
ikrar-namah
il Duce
il-
ilang-ilang
ile-
ileo-
ileo-ileostomy
iliac artery
ilio-
ilio-inguinal
iliotibial band
ill at ease
ill blood
ill breeding
ill disposition
ill done-by
ill fame
ill feeling
ill fortune
ill hap
ill health
ill house
ill humor
ill humored
ill humour
ill luck
ill manners
ill nature
ill off
ill repute
ill service
ill success
ill temper
ill turn
ill usage
ill use
ill will
ill wind
ill-
ill-according
ill-accoutered
ill-accustomed
ill-achieved
ill-acquired
ill-acted
ill-adapted
ill-adventured
ill-advised
ill-advisedly
ill-affected
ill-affectedly
ill-affectedness
ill-agreeable
ill-agreeing
ill-annexed
ill-armed
ill-arranged
ill-assimilated
ill-assorted
ill-assorted marriage
ill-at-ease
ill-balanced
ill-balanced sentences
ill-befitting
ill-begotten
ill-behaved
ill-being
ill-beseeming
ill-bested
ill-boding
ill-born
ill-borne
ill-breathed
ill-bred
ill-bred fellow
ill-built
ill-calculating
ill-cared
ill-celebrated
ill-cemented
ill-chosen
ill-clad
ill-cleckit
ill-coined
ill-colored
ill-come
ill-comer
ill-composed
ill-concealed
ill-conceived
ill-concerted
ill-conditioned
ill-conditionedness
ill-conducted
ill-considered
ill-consisting
ill-contented
ill-contenting
ill-contrived
ill-cured
ill-customed
ill-deedy
ill-defined
ill-definedness
ill-devised
ill-digested
ill-directed
ill-disciplined
ill-disposed
ill-disposedness
ill-dissembled
ill-doing
ill-done
ill-drawn
ill-dressed
ill-educated
ill-effaceable
ill-equipped
ill-erected
ill-executed
ill-famed
ill-fardeled
ill-faring
ill-faringly
ill-fashionled
ill-fated
ill-fated life
ill-fatedness
ill-favor
ill-favored
ill-favoredly
ill-favoredness
ill-favoured
ill-favouredly
ill-favouredness
ill-featured
ill-fed
ill-fitted
ill-fitting
ill-flavored
ill-foreseen
ill-formed
ill-found
ill-founded
ill-friended
ill-furnished
ill-gauged
ill-gendered
ill-given
ill-got
ill-gotten
ill-gotten gains
ill-governed
ill-greeting
ill-grounded
ill-hap
ill-headed
ill-health
ill-housed
ill-humor
ill-humored
ill-occupied
ill-omened
ill-omenedness
ill-paid
ill-perfuming
ill-persuaded
ill-placed
ill-pleased
ill-proportioned
ill-provided
ill-qualified
ill-regulated
ill-requisite
ill-required
ill-resounding
ill-rewarded
ill-roasted
ill-rulled
ill-satisfied
ill-savored
ill-scented
ill-seasoned
ill-seen
ill-served
ill-set
ill-shaped
ill-smelling
ill-sorted
ill-sounding
ill-spent
ill-spun
ill-starred
ill-strung
ill-succeeding
ill-suited
ill-suiting
ill-supported
ill-tasted
ill-taught
ill-tempered
ill-temperedly
ill-temperedness
ill-time
ill-timed
ill-tongued
ill-treat
ill-treated
ill-treater
ill-treatment
ill-tuned
ill-turned
ill-understood
ill-usage
ill-use
ill-used
ill-using
ill-ventilated
ill-weaved
ill-wedded
ill-willed
ill-willer
ill-wylie
ill-willy
ill-wish
ill-wisher
ill-won
ill-worded
ill-written
ill-wrought
ill-yoked
illegal commerce
illegal operations
illegal traffic
illegible handwriting
illegitimate business
illegitimate child
illicit business
illicit businessman
illicit love
ilipe butter
illiterate speech
ills the flesh is heir to
illuminating engineer
illuminating engineering
illuminating gas
illuminating oil
illuminating projectile
illupi oil
illusion-proof
im-
image breaker
image breaking
image converter
image dissector
image iconoscope
image intensifier
image orthicon
image space
image tube
image worship
image-breaker
image-breaking
image-maker
image-matched input resistance
image-matched output resistance
image-worship
imageless thought
imagery study
imaginal bud
imaginal disk
imaginal type
imaginary axis
imaginary invalid
imaginary number
imaginary part
imaginary unit
imagination-proof
imaginative exercise
imagist verse
imagistic poetry
imb-
imbibition process
imbricato-
imbue with life
imbued with
imbued with life
imide chloride
imido group
imido radical
imino ester
imino group
imino radical
imitation doublet
imitation fur
imitation leather
imitation vermilion
imitation-proof
imitative magic
immaculate conception
immanent cause
immature personality
immaturity reaction
immediate annuity
immediate cause
immediate cognition
immediate communication
immediate constituent
immediate constituent analysis
immediate dislike
immediate foreground
immediate future
immediate neighbor
immediate prospect
immediate purpose
immediate resources
immediately if not sooner
immemorial usage
immense number
immersed in
immersed in thought
immersion foot
immersion heater
immersion lens
immersion scale
immolate before
immortal hand
immortal name
immovable feast
immune body
immune globulin
immune serum
immunity theory
immunization therapy
immuno-
immunosuppressive drug
imou pine
imp gal
imp-pole
impact area
impact parameter
impact pressure
impact test
impact theory
impaired hearing
impairment of motor function
impairment of speech
impanel a jury
impartial arbitrator
impatient of
impatient of control
impatient of discipline
implicit consent
implicit differentiation
implicit function
implicit function theorem
implied contract
implied meaning
implied threat
implore counsel
implore mercy
import credit
import tax
important person
important persons
important point
important thing
imported currantworm
imported wine
impose a penalty on
impose on
impose on you for
impose upon
impose your will
imposing an onus
imposing stone
imposing table
imposition of hands
impost block
impress forcibly
impress on the mind
impress upon
impress upon the memory
impress upon the mind
impressed by
impressed with
impressed with yourself
improper fraction
improper integral
improper suggestion
improve each shining hour
improve on
improve the mind
improve the occasion
improve the shining hour
improve upon
improve your mind
improvement lease
improvement purchase
improving the mind
improvisational drama
imprudent step
impudent person
impulse buying
impulse duct engine
impulse excitation
impulse face
impulse movement
impulse of life
impulse recorder
impulse roller
impulse transformer
impulse turbine
impurity atom
impute shame to
impute to
in Abraham's bosom
in Argolis
in Davy Jones's locker
in Dutch
in God's good time
in Indian file
in NW Africa
in Queer Street
in Sunday best
in Technicolor
in a backwater
in a bad humor
in a bad way
in a beeline
in a big way
in a bind
in a bit
in a blaze
in a blue funk
in a body
in a bondman's key
in a bother
in a botheration
in a box
in a capsule
in a chain
in a chorus
in a circle
in a class by itself
in a cloud
in a corner
in a crescendo
in a dark corner
in a daze
in a dead calm
in a delicate condition
in a different manner
in a dilemma
in a direct line
in a dither
in a fair manner
in a fair way
in a fair way to
in a fashion
in a ferment
in a fever
in a few words
in a fix
in a flash
in a flurry
in a fluster
in a flutter
in a fog
in a foofaraw
in a frenzy of desire
in a fright
in a fume
in a funk
in a fury
in a fury of desire
in a glow
in a good
in a good mood
in a good state of preservation
in a groove
in a haze
in a hole
in a hole-and-corner way
in a huddle
in a huff
in a hurry
in a jam
in a jiff
in a jiffy
in a jumble
in a lather
in a lather of haste
in a line
in a line for
in a little bit
in a little while
in a manner
in a manner of speaking
in a maze
in a measure
in a mess
in a minute
in a mist
in a moment
in a muck of a sweat
in a muddle
in a nice pickle
in a nutshell
in a panic
in a passion
in a pet
in a pickle
in a pig's eye
in a position to
in a pother
in a predicament
in a pretty pass
in a pretty pickle
in a pucker
in a quandary
in a quiver
in a rage
in a reverie
in a roundabout way
in a row
in a rush
in a rut
in a scrape
in a second
in a sense
in a series
in a shake
in a shocking humor
in a short time
in a short while
in a small compass
in a small way
in a smart-alecky way
in a smart-ass fashion
in a sorry plight
in a sound sleep
in a spin
in a spot
in a squirrel cage
in a stable state
in a state
in a state of nature
in a state of suspense
in a stew
in a straight line
in a stupor
in a sweat
in a sweat of haste
in a swivet
in a temper
in a tight spot
in a tizzy
in a trance
in a transport
in a transport of delight
in a trice
in a tumble
in a turmoil
in a twink
in a twinkling
in a twitter
in a watery bier
in a watery grave
in a wax
in a way
in a while
in a whirl
in a whisper
in a wink
in a word
in abeyance
in absentia
in abstracto
in abundance
in accord
in accordance
in accordance with
in action
in actuality
in addition
in addition to
in adjustment
in admiration
in advance
in advance of
in advance of your age
in adverse circumstances
in aeternum
in aftertime
in agreement
in agreement with
in aid of
in alarm
in all
in all ages
in all conscience
in all creation
in all directions
in all directions at once
in all fairness
in all haste
in all its intensity and color
in all likelihood
in all manner of ways
in all places
in all probability
in all quarters
in all reason
in all respects
in all seriousness
in all sobriety
in all your born days
in alt
in altissimo
in amazement
in ambuscade
in ambush
in amends
in an aside
in an evil hour
in an instant
in an uncertain state
in an undertone
in an unguarded moment
in an uproar
in ancient times
in and in
in and out
in anger
in another way
in answer
in anticipation
in anticipation of
in antis
in any case
in any event
in any possible way
in any way
in apple-pie order
in apposition
in armor
in arms
in arrear
in arrears
in articulo mortis
in ascendancy
in association
in association with
in astonishment
in at the death
in atonement
in authority
in awe
in awe of
in back of
in bad
in bad humor
in bad odor
in bad odor with
in bad repute
in bad spirits
in bad taste
in bad with
in balance
in balk
in ballast
in banc
in banco
in base
in battle array
in bed
in bedrock
in behalf of
in being
in bend
in between
in bewilderment
in bits
in bits and pieces
in black and white
in bloom
in blossom
in blue water
in board
in bold relief
in bondage
in bonds
in brief
in brief compass
in broad daylight
in broad terms
in brodo
in buckram
in bud
in bulk
in cahoot
in cahoots
in camera
in captivity
in case
in case of
in case that
in cash
in chains
in chambers
in chancery
in character
in charge
in charge of
in check
in chevron
in chief
in childbed
in chorus
in circles
in circulation
in closed meeting
in clover
in cold blood
in collaboration
in collision
in collusion
in color
in column
in combat
in comfort
in command
in commemoration
in commemoration of
in commendam
in commission
in common
in company
in company with
in comparison with
in compensation
in competition
in complete steel
in compliance with
in complicity
in concert
in concert with
in conclave
in conclusion
in concord
in condition
in conference
in confidence
in confinement
in confirmation
in conflict with
in conformity with
in conformity with the evidence
in conformity with the facts
in confrontation
in confusion
in conjunction
in conjunction with
in connection with
in conscience
in consequence
in consequence of
in consideration
in consideration of
in consternation
in consultation
in contact
in contact with
in contemplation of
in contempt
in contempt of
in contradiction
in contrast with
in control
in cooperation
in cooperation with
in corpore
in correspondence to
in double harness
in double time
in double-quick time
in doubt
in driblets
in dribs and drabs
in dubio
in due course
in due form
in due season
in due time
in dumb show
in duplicate
in durance vile
in duty bound
in earnest
in ease
in eclipse
in ecstasies
in ecstasy
in effect
in either case
in embarrased circumstances
in embryo
in epitome
in equal shares
in equilibrio
in equilibrium
in equipoise
in equity
in error
in escrow
in esse
in essence
in every clime
in every direction
in every hole and corner
in every instance
in every nook and cranny
in every place
in every quarter
in every region
in every respect
in every your mouth
in everyone's mouth
in evidence
in excess
in excess of
in exchange
in executive session
in exercise
in existence
in expectation
in explanation
in extenso
in extremis
in extremities
in fact
in faith
in fashion
in fault
in favor
in favor of
in fear
in fear and trembling
in fear of your life
in fee
in fee simple
in fess
in file
in fine
in fine feather
in fine fettle
in fine shape
in fine whack
in fits and starts
in flagrante delicto
in flames
in flat opposition
in flight
in flood
in flower
in focus
in for it
in force
in foreign parts
in forma pauperis
in frame
in front
in front of
in full
in full bloom
in full cry
in full dress
in full feather
in full force
in full measure
in full sail
in full swing
in full view
in fun
in funds
in furtherance of
in future
in futuro
in gear
in general
in general terms
in glory
in glowing terms
in good case
in good condition
in good earnest
in good faith
in good form
in good health
in good heart
in good odor
in good part
in good season
in good set terms
in good shape
in good spirits
in good supply
in good taste
in good time
in good trim
in good truth
in good with
in great measure
in grief
in half
in half a jiffy
in half a mo
in half a shake
in half measures
in halves
in hand
in harbor
in harmony
in harmony with
in harness
in haste
in haste like a snail
in health
in heaps
in heat
in heaven
in hell
in hellfire
in hiding
in hidlings
in high
in high dudgeon
in high esteem
in high estimation
in high favor
in high feather
in high gear
in high relief
in high spirits
in historic times
in hoc
in hoc signo vinces
in hock
in hold
in holes and corners
in holy orders
in honor of
in hopes
in hospital
in hostile array
in hot blood
in hot haste
in hot pursuit
in hot water
in hysterics
in idea
in ignorance of
in imitation of
in infinitum
in installments
in irons
in its entirety
in its infancy
in its own way
in its place
in its stead
in itself
in jeopardy
in jest
in joke
in justice
in juxtaposition
in keeping
in keeping with
in kelter
in kilter
in kind
in large
in layers
in leading strings
in leaf
in league
in leash
in length
in less than no time
in letters of fire
in lieu
in lieu of
in like manner
in limine
in line
in line of duty
in line with
in liquor
in litigation
in little
in loc cit
in lock-step with
in loco
in loco parentis
in longhand
in lots
in love
in love with
in low gear
in low relief
in low spirits
in luck
in lure
in luxury
in majority
in many instances
in march time
in measure
in medias res
in medium
in mem
in memoriam
in memory of
in mesh
in mid
in mid-progress
in miniature
in mint condition
in moderation
in mortal fear
in mothballs
in motion
in mourning
in must
in naked beauty more adorned
in name only
in nappies
in narrow circumstances
in native buff
in nature's garb
in need
in need of rest
in negligee
in no case
in no long time
in no place
in no respect
in no time
in no uncertain terms
in no way
in no wise
in nomine
in nothing flat
in numbers
in obedience to
in olden times
in omnia paratus
in one way or another
in one word
in open court
in operation
in opposition
in opposition to
in order
in order that
in order to
in orders
in ordinary
in orle
in other respects
in position
in posse
in possession of
in possession of your faculties
in possession of your senses
in posthaste
in power
in practice
in præsentī
in preference
in preference to
in prehistoric times
in preparation
in preparation for
in pretense
in principle
in print
in prison
in privacy
in private
in private conference
in privy
in process
in production
in profusion
in progress
in proper season
in proper time
in proportion
in propria persona
in prose
in prospect
in public
in public view
in purdah
in puris naturalibus
in pursuance of
in pursuit
in pursuit of
in quantities
in quantity
in quest of
in question
in quick succession
in rags
in range
in rapid succession
in rapport
in raptures
in re
in readiness
in ready state
in reality
in reason
in rebuttal
in receivership
in reciprocation
in recompense
in red letters
in reduced circumstances
in reference to
in regard to
in relation to
in relation with
in relief
in rem
in remembrance
in remembrance of
in remission
in repair
in reparation
in reply
in reprisal
in requital
in rerum natura
in reserve
in residence
in respect of
in respect that
in respect to
in response
in restitution
in retaliation
in retirement
in retreat
in retribution
in retrospect
in return
in revenge
in reverse
in reward
in rhythm
in rivalry
in rotation
in round numbers
in round terms
in ruins
in russet mantle clad
in rut
in sackcloth and ashes
in saecula saeculorum
in safety
in sail
in scorn
in search of
in season
in season and out of season
in seclusion
in secrecy
in secret
in secret meeting
in seed
in seeming
in seisin
in self-defense
in sequence
in series
in service
in session
in set form
in set phrases
in set terms
in seven-league boots
in seventh heaven
in shape
in shards
in shelter
in shore
in short
in short order
in short supply
in shorthand
in shreds
in sickness and in health
in sight
in silence
in single file
in sinu Abraham
in situ
in slavery
in slow motion
in slow tempo
in small doses
in smitherens
in snatches
in so far
in so far as
in so many words
in society
in solido
in solidum
in solitude
in solution
in some measure
in some place
in some such way
in some way
in some way or other
in sooth
in soundings
in spades
in spate
in specie
in spite
in spite of
in spite of yourself
in spitting distance
in sport
in spots
in statu quo
in step
in step with
in stir
in stock
in store
in straitened circumstances
in strict confidence
in strong relief
in stud
in style
in subjection
in substance
in succession
in such wise
in sum
in summary
in supply
in support of
in suspense
in suspension
in swaddling clothes
in swarms
in sync
in synchronization
in tails
in tatters
in tears
in tempo
in terror
in terrorem
in terrorem clause
in that
in that case
in that event
in that instance
in that neighborhood
in that place
in that vicinity
in that way
in the Christian Era
in the Common Era
in the absence of
in the abstract
in the act
in the act of
in the affirmative
in the aftermath
in the age of
in the aggregate
in the air
in the aisle
in the altogether
in the arms of Morpheus
in the ascendant
in the background
in the bag
in the balance
in the beginning
in the best taste
in the black
in the blood
in the bloom of youth
in the bosom of the lodge
in the bosom of your family
in the bud
in the buff
in the can
in the cannon's mouth
in the cards
in the care of
in the center of
in the chains
in the charge of
in the chips
in the circumstances
in the clear
in the clouds
in the clover
in the clutches
in the cold
in the contingency that
in the course of
in the course of business
in the course of things
in the course of time
in the cradle
in the crib
in the dark
in the dark of night
in the dead of night
in the depths
in the direction of
in the distance
in the doghouse
in the doldrums
in the doleful dumps
in the driver's seat
in the dumps
in the dust
in the era of
in the event of
in the event that
in the extreme
in the eye of the wind
in the eyes of
in the eyes of the law
in the face of
in the face of day
in the face of death
in the face of heaven
in the family way
in the field
in the fire
in the first place
in the flesh
in the flower of youth
in the forefront
in the foreground
in the fourth place
in the front
in the fullness of time
in the future
in the gaseous state
in the glare of publicity
in the good old days
in the grand style
in the grave
in the grave six feet under
in the groove
in the gross
in the gutter
in the habit of
in the hands of
in the heart
in the heat of passion
in the highest degree
in the hole
in the hopper
in the humor
in the immediate future
in the interest
in the interim
in the intervening time
in the jaws of death
in the know
in the land of Nod
in the land of the living
in the lap of Morpheus
in the large
in the latest mode
in the latest style
in the lead
in the light of
in the limelight
in the limits of
in the line of duty
in the long run
in the lump
in the main
in the majority
in the making
in the market
in the market for
in the marketplace
in the marts of trade
in the mass
in the matter of
in the mean
in the meantime
in the meanwhile
in the melting mood
in the memory of man
in the middle
in the middle of
in the middle of the road
in the midst of
in the midst of battle
in the mind
in the mode
in the money
in the mood
in the morning
in the name of
in the natural way of things
in the near future
in the negative
in the neighborhood
in the neighborhood of
in the news
in the nick of time
in the night
in the nursery
in the offing
in the old days
in the olden time
in the open
in the open air
in the opinion of
in the oven
in the past
in the pink
in the pink of condition
in the pipeline
in the place of
in the plenitude of power
in the presence of
in the process of
in the process of time
in the public eye
in the raw
in the rear
in the red
in the remote distance
in the right
in the rough
in the saddle
in the same boat
in the same breath
in the same category
in the same manner
in the same way as
in the same words
in the second instance
in the second place
in the secret
in the semblance of
in the sequel
in the service of
in the shade
in the shadow of a rock
in the singular
in the small
in the soup
in the spotlight
in the state of nature
in the stead of
in the sweet by-and-by
in the swim
in the teeth of
in the teeth of the wind
in the thick of
in the thick of combat
in the thick of the fray
in the third place
in the thoughts
in the time of
in the train of
in the twinkling of an eye
in the usual course
in the van
in the vein
in the very act
in the very grain
in the vicinity
in the vicinity of
in the wake of
in the way
in the white
in the whole wide world
in the wide world
in the wind
in the wind's eye
in the wings
in the womb of time
in the works
in the world
in the worst way
in the wrong
in the wrong box
in the wrong pew
in the wrong place
in the year of our Lord
in theory
in there with
in these days
in this day and age
in this place
in this vicinity
in this way
in those parts
in throngs
in time
in times gone by
in times past
in torment
in toto
in tow
in trans
in transit
in transit to
in transitu
in trim
in triplicate
in triumph
in trouble
in trust
in truth
in tune
in turn
in turns
in twain
in two
in two shakes
in two shakes of a lamb's tail
in two words
in uniformity with
in unison
in unison with
in use
in utero
in vacuo
in vain
in various places
in velvet
in very sooth
in very truth
in view
in view of
in view of the fact that
in vino veritas
in violation of law
in virtue of
in vitro
in vivo
in vogue
in want
in want of
in way of
in what condition
in what manner
in what period
in what place
in what way
in which place
in which time
in white tie and tails
in with
in wonder
in words of one syllable
in words to that effect
in working order
in writing
in years
in your armor
in your bad books
in your behalf
in your best bib and tucker
in your birthday suit
in your black books
in your book
in your books
in your charge
in your chest
in your clutches
in your control
in your cups
in your element
in your employ
in your estimation
in your eye
in your favor
in your good
in your good books
in your good graces
in your grasp
in your grip
in your hands
in your heart of hearts
in your inmost thoughts
in your opinion
in your own hand
in your own interest
in your own person
in your own right
in your own sweet way
in your own way
in your pay
in your place
in your pocket
in your possession
in your power
in your prime
in your right mind
in your second childhood
in your shell
in your shirt sleeves
in your shirt-sleeves
in your shoes
in your sleeve
in your sober senses
in your stead
in your stocking feet
in your teens
in your thinking
in your tracks
in-
in-and-in
in-and-out
in-and-out bond
in-and-outer
in-beaming
in-being
in-between
in-bond shop
in-book
in-breeding
in-built
in-calf
in-car
in-clearer
in-clearing
in-clerk
in-co-ordinate
in-co-ordinated
in-co-ordination
in-crowd
in-dimension
in-fighting
in-flight
in-flight refueling
in-flight refueling tanker
in-flight training
in-goal
in-going
in-group
in-house
in-knee
in-kneed
in-law
in-laws
in-lb
in-lean
in-line
in-line engine
in-lot
in-marriage
in-migrant
in-migrate
in-migration
in-off
in-patient
in-phase
in-plant
in-quarto
in-sail
in-service
in-service training
in-the-wool
in-to-out
in-toed
in-tray
inability to believe
inactive market
inactive stock
inactive war
inadequate personality
inalienable right
inanimate matter
inasmuch as
inaugural address
inauguration day
inboard profile
inboard-outboard motor
inboard-rigged
inborn aptitude
inborn capacity
inborn predisposition
inborn proclivity
inborn susceptibility
inborn tendency
incandescent body
incandescent electric lamp
incandescent lamp
incandescent light
incandescent lighting
incandescent mantle
incandescent point
incapable of
incapable of life
incarnations of
incasement theory
incendiary antiaircraft rocket
incendiary bomb
incendiary grenade
incendiary rocket
incense boat
incense burner
incense cedar
incense juniper
incense resin
incense shrub
incense tree
incense wood
incense-breathing
incense-breathing morn
incentive pay
incentive wage
inch along
inch by inch
inch forward
inch mast
inch of mercury
inch plant
inch rule
inch your way up
inch-deep
inch-high
inch-long
inch-pound
inch-thick
inch-ton
inch-wide
incidence wire
incident light
incident light meter
incident to
incidental information
incidental music
incidental note
incidental power
incidental remark
incidental to
inciso-
incisor foramen
incito-motor
inclination compass
inclination of the balance
inclination of the head
inclination to believe
inclinatory needle
incline an ear to
incline plane
incline the head
incline toward
incline towards
incline your ear
inclined engine
inclined plane
inclined railway
inclined to
inclined to believe
inclined to forget
inclined toward
inclined-plane clock
inlining toward
include in
include me out
include out
inclusion body
inclusion map
inclusion-exclusion
inclusive disjunction
inclusive of
inclusive or
inco-ordinate
inco-ordination
income account
income after deductions
income after taxes
income basis
income bond
income fund
income group
income sheet
income stock
income tax
income-tax
incoming population
incomplete antibody
incomplete fracture
incontestable clause
incontrovertible evidence
incorporated bar
incorporeal being
incorporeal entity
incorporeal hereditament
increase in size
increase of temperature
increase the chances
increase the temperature
increase twist
increment borer
incremental plotter
incremental recorder
incremental repetition
inrescent moon
incriminate yourself
incriminating evidence
incubation patch
incubation period
incubator baby
incubator bird
incumbent on
incumbent upon
incur a debt
incur a responsibility
incur costs
incur danger
index hand
index head
index mark
index notation
index number
index of refraction
index per cent
index pin
index plane
index plate
index sector
index set
index-linked
indi-
india ink
india paper
india rubber
india-rubber
indian club
indian corn
indian fig
indian file
indian giver
indian hemp
indian ink
indian licorice
indian meal
indian paintbrush
indian pipe
indian pudding
indian red
indian sign
indian summer
indian tobacco
indian turnip
indicated horsepower
indicating control switch
indicator card
indicator diagram
indicator plant
indicator telegraph
indicator tube
indices Librorum Prohibitorum
indicial equation
indignant displeasure
indignation meeting
indignation-proof
indigo auxiliary
indigo bird
indigo blue
indigo broom
indigo brown
indigo bunting
indigo bush
indigo carmine
indigo copper
indigo dyer
indigo extract
indigo finch
indigo grinder
indigo maker
indigo plant
indigo printing
indigo snake
indigo thorn
indigo weed
indigo white
indigo-bearing
indigo-bird
indigo-blue
indigo-dyed
indigo-grinding
indigo-plant
indigo-producing
indigo-white
indigo-yielding
indirect authority
indirect costs
indirect course
indirect discourse
indirect evidence
indirect infection
indirect initiative
indirect labor
indirect lighting
indirect object
indirect power
indirect primary
indirect proof
indirect question
indirect speech
indirect tax
indisposed to believe
indisposed to communicate
indisposed to talk
indisposition to speak
indisputable evidence
indisputable fact
indistinct speech
individual essence
individual identity
individual liberty
individual medley
individual psychology
individual responsibility
individual retirement account
individual speech competence
individual speech habits
individual speech performance
indo-
indo-aryan
indo-chinese
indo-european
indo-european languages
indo-german
indo-germanic
indo-hittite
indo-iranian
indoleacetic acid
indolebutyric acid
indomitable sea
indoor baseball
indoor-outdoor carpeting
indorse, indorsement
induced current
induced drag
induced radioactivity
induced topology
inductance coil
inductance factor
induction accelerator
induction balance
induction bridge
induction coil
induction compass
induction current
induction furnace
induction generator
induction hardening
induction heat
induction heater
induction heating
induction heating machine
induction instrument
inert gas
inertia ellipsoid
inertia governor
inertia selling
inertia transmission
inertia-reel seat-belt
inertial guidance
inertial guidance system
inertial mass
inertial navigation
inertial navigation system
inertial reference frame
inertial space
inertial system
inescapable fact
inevitable accident
inevitably narrative
inexpiable sin
inextensive deformation
infant prodigy
infant school
infant-school
infantile amnesia
infantile fixation
infantile paralysis
infantile sexuality
infantry combat
infantry tactics
infants' school
infants' wear
infatuated with
infection hypha
infection period
infection thread
infectional arthritis
infectious disease
infectious ectromelia
infectious granuloma
infectious hepatitis
infectious keratitis
infectious laryngotracheitis
infectious mononucleosis
infectious myxomatosis
inferior article
inferior court
inferior goods
inferior horse
inferior maxillary
inferior personality
inferior planet
inferiority complex
infernal machine
infernal pit
infernal regions
infero-
infield fly
infiltration gallery
infiltration vein
infinite baffle
infinite duration
infinite goodness
infinite integral
infinite justice
infinite love
infinite mercy
infinite power
infinite product
infinite regress
infinite series
infinite space
infinite spirit
infinite truth
infinite wisdom
ininitely continuous
ininitely extended
infinitesimal calculus
infinitive clause
infinitive marker
infinitive phrase
infinito-
infinito-absolute
infinito-infinitesimal
infinity plug
infirm of purpose
infirm of will
infirm old age
infirmity of age
infirmity of purpose
infirmity of will
inflame with love
inflammable material
inflammatory rheumatism
inflatable slide
inflate prices
inflationary gap
inflationary pressure
infra-angelic
infra-auricular
infra-axillary
infra-esophageal
infra-red
infra-umbilical
infrared beam projector
infrared broiler
infrared cooker
infrared gas and liquid analyzer
infrared heater
infrared lamp
infrared photography
infrared ray
infrared spectroscopy
infrared telescope
infrared therapy
infraroentgen ray
infringe a copyright
infringement of copyright
infuse life into
infusion process
infusorial earth
ingle cheek
ingle nook
ingle-bred
inglorious defeat
ingot chipper
ingot cutter
ingot forger
ingot heater
ingot iron
ingot lathe
ingot maker
ingot weigher
ingrain carpet
ingratiate yourself
ingratiate yourself with
inguino-
inhabitants of Pandemonium
inhalation tuberculosis
inhale snuff
inhale spasmodically
inharmonious harmony
inhere in
inherent authority
inherent immunity
inherent power
ink spiller
ink spilling
ink up
ink-berry
ink-black
ink-blurred
ink-cap
ink-carrying
ink-colored
ink-distributing
ink-dropping
ink-slab
ink-spotted
ink-stained
ink-wasting
ink-writing
ink-written
inkblot test
inkhorn term
inking bell
inking roller
inky cap
inky-black
inland bill
inland marine insurance
inland sea
inland waters
inlay graft
inlying picket
inmost heart
inmost mind
inmost recesses of the memory
inmost soul
inmost thoughts
inn of court
innate aptitude
innate idea
innate immunity
innate proclivity
innato-
ininner arbiter
inner automorphism
inner bar
inner barrister
inner circle
inner city
inner ear
inner essence
inner form
inner jib
inner landscape
inner life
inner light
inner man
inner mechanism
inner mission
inner nature
inner planet
inner product
inner reality
inner recess
inner recesses of the heart
inner recesses of the mind
inner self
inner space
inner station
inner tube
inner workings
inner-city
inner-directed
inner-directed person
inner-directedness
inner-direction
innermost being
innermost recesses
innermost recesses of the heart
innerspring mattress
innocent as a lamb
innocent person
innocent tumor
innocent within
innominate artery
innominate bone
innominate vein
innovation-proof
ino-
inofficious testament
inofficious will
inordinate desire
inorganic chemical
inorganic chemistry
inorganic fertilizer
inorganic matter
inorganic substance
inorganized matter
inositol-hexaphosphoric
inositolhexaphosphoric acid
inp-
inpatient clinic
input conductance
input current
input data
input oscillation
input quantity
input resistance
input voltage
input-output analysis
input-output device
inquire after
inquire for
inquire into
inquire of
inquire onto
inquiring mind
inquiry agent
inquiry into
inquiry into first causes
ins and outs
insane asylum
insanity curing
insanity-proof
insatiable desire
inscribe in the memory
inscribe yourself
insculp'd upon
insect bed
insect flower
insect lime
insect orchis
insect powder
insect sound
insect wax
insect-eating
insect-eating bird
insectivorous bat
insensible to
insensible to the past
inseparable friend
insert in
inset initial
inside and out
inside clinch
inside dope
inside forward
inside information
inside job
inside loop
inside man
inside of
inside out
inside parts
inside straight
inside track
inside wire
inside-out
insigne cum laude
insignia of arm
insignia of branch
insignia of rank
insincere argument
insinuate in
insinuate yourself
insinuate yourself into
insist on
insist upon
insistent demand
insofar as
insolvency statute
insolvent debtor
insomnia-proof
insomuch as
inspect the books
inspection chamber
inspection gauge
inspector general
inspector of taxes
inspire belief
inspire confidence
inspire hope
inspire respect
inspired leader
inspiriting force
inspiriting power
inspiriting principle
instability line
installment bond
installment buying
installment credit
installment loan
installment mortgage
installment plan
installment selling
instance court
instance side
instant replay
instantaneous sound pressure
instead of
instinct for
instinct with life
institute an inquiry
institute of technology
institution of higher learning
instruction card
instruction-proof
instrument board
instrument carrier
instrument flight
instrument flight rules
instrument flying
instrument in proof
instrument instrumentality
instrument lamp
instrument landing
instrument landing system
instrument light
instrument of execution
instrument of punishment
instrument of torture
instrument panel
instrument rocket
instrument servo
instrument transformer
instrumental conditioning
instrumental logic
instrumental music
instrumental score
instruments of
instruments of destruction
insubstantial image
insufficiency of the valves
insufficient funds
insulating tape
insulation resistance
insulin reaction
insulin shock
insulin shock therapy
insurance adjuster
insurance agent
insurance auditor
insurance broker
insurance canvasser
insurance clerk
insurance collector
insurance company
insurance examiner
insurance man
insurance messenger
insurance patrol
insurance policy
insurance reserve
insurance salesman
insurance solicitor
insurance tester
insurance traveler
insurance underwriter
insuring clause
insusceptible of change
intaglio printing
intaglio rilevato
intaglio rilievo
intake manifold
intake valve
intangible assets
integer vitae
integrable group
integral calculus
integral cover
integral curvature
integral curve
integral cylinder head
integral domain
integral equation
integral function
integral humanism
integral photography
integral test
integral unit
integral whole
integrated bar
integrated circuit
integrated data processor
integrated data processing
integrated personality
integrated system
integrating factor
integrating flowmeter
integrating ionization chamber
integration by parts
integration of personality
integrative power
intellectual acquirement
intellectual acquisition
intellectual attainment
intellectual childishness
intellectual climate
intellectual curiosity
intellectual elite
intellectual exercise
intellectual faculty
intellectual genius
intellectual gifts
intellectual grasp
intellectual immaturity
intellectual inertia
intellectual object
intellectual pleasure
intellectual power
intellectual prodigy
intellectual talents
intellectual weakness
intellectually childish
intellectually immature
intelligence agency
intelligence agent
intelligence bureau
intelligence department
intelligence office
intelligence officer
intelligence quotient
intelligence service
intelligence test
intelligence testing
intelligence work
intelligent being
intemperate person
intend to
intense cold
intense darkness
intense heat
intensity of illumination
intensity-modulated display
intensive care
intensive farming
intent on
intent upon
inter alia
inter alios
inter nos
inter se
inter vivos
inter-
inter-varsity
inter-Allied
inter-American
inter-Andean
inter-European
inter-agent
inter-brain
inter-plane
inter-varsity
intercalary meristem
intercardinal point
interception radar
interchange of speech
interchange of views
interchangeable bond
intercommunication system
intercosmic space
interdict list
interdiction bombing
interdiction fire
interdisciplinary knowledge
interesse termini
interest group
interest in
interest inventory
interest lottery
interest payment
interest rate
interests of
interfacial tension
interfaith marriage
interfere with
interference color
interference drag
interference figure
interference fit
interference microscope
interference microscopy
interference pattern
interference phenomenon
interference spectrum
interference-proof
intergalactic distance
intergalactic matter
intergalactic space
interim bond
interim certificate
interim dividend
interior angle
interior ballistics
interior decorating
interior decoration
interior decorator
interior design
interior designer
interior drainage
interior man
interior mapping
interior monologue
interior paint
interior planet
interior point
interior polygon
interior side
interior slope
interior-sprung
interjection point
interlaced scanning
interlacing arcade
interlibrary loan
interline rate
interlinear translation
interlocking directorate
interlocking directorates
interlocutory decree
intermediate agent
intermediate card
intermediate frequency
intermediate host
intermediate period
intermediate pile
intermediate school
intermediate schooler
intermediate space
intermediate trainer
intermediate vessel
intermediate-frequency amplifier
intermediate-frequency pulse
intermediate-frequency signal
intermediate-frequency tube
intermediate-value theorem
intermedio-lateral
intermeshing rotors
intermeshing-rotor helicopter
intermetallic compound
intermittent claudication
intermittent current
intermittent duct engine
intermittent fever
intermittent movement
internal auditory meatus
internal conversion
internal ear
internal energy
internal evidence
internal friction
internal frustration
internal gear
internal hemorrhoid
internal iliac artery
internal jugular vein
internal medicine
internal reality
internal reconstruction
internal relation
internal respiration
internal revenue
internal revenue agent
internal revenue tax
internal rhyme
internal secretion
internal selector
internal stress
internal-combustion
internal-combustion engine
international Morse code
international agreement
international air mile
international alphabet flag
international angstrom
international bank
international banking
international candle
international carat
international date line
international fixed calendar
international law
international nautical mile
international numeral pennant
international organization
international pitch
international radio silence
international relations
international securities
international temperature scale
international unit
international-minded
internment camp
intero-
interso-
interuncial neuron
interpersonal theory
interplanetary explorer
interplanetary rocket
interplanetary space
interplanetary travel
interpretation clause
interpretation of dreams
interpretative dance
interpretive semantics
interquartile range
intrarracial marriage
interrogation mark
interrogation point
interrogator-responsor
interrupted cadence
interrupted fern
interrupted screw
interrupted sequence
intersecting arcade
intersection locus
intersection of minds
interstate highway
interstellar distance
interstellar space
interstitial irradiation therapy
intertidal zone
interval of convergence
interval operation
interval training
intervening space
intervertebral disc
intervertebral disk
intervertebral substance
intestinal digestion
intestinal flora
intestinal fortitude
intestinal juice
intimate acquaintance
intimate borrowing
intimate friend
intimate friendship
intimate with
intimately related
into arrears
into commission
into high gear
into irons
into it
into question
into the background
into the bargain
into the dust
into the ground
into the past
into the shoes of
into the wind
into the wind's eye
into thin air
into with both feet
into your hands
intolerant person
intonation contour
intonation of voice
intonation pattern
intoxicating liquor
intra muros
intra vires
intra vitam
intra-
intra-abdominal
intra-abdominally
intra-acinous
intra-alveolar
intra-appendicular
intra-arachnoid
intra-arterial
intra-articular
intra-atomic
intra-atrial
intra-aural
intra-auricular
intra-mercurial
intra-urban
intra-urethral
intra-uterine
invocation of saints
invocatory plea
invocatory prayer
invoke benefits upon
involuntary cooperation
involuntary impulse
involuntary muscle
involuntary presence
involuntary servitude
involute teeth
involute-leaved
involutional melancholia
involutional psychosis
involve in
involve the interest
involve with
involve yourself
involved in
involved in debt
inward light
inward monitor
inward-bound
inward-flow turbine
io moth
io-
iod-
iodic acid
iodine absorption
iodine bush
iodine pentoxide
iodine scarlet
iodine value
iodine weed
iodo-
iodobehenic acid
ion chamber
ion counter
ion engine
ion exchange
ion propulsion
ion propulsior
ion rocket
ionic bond
ionic conduction
ionization chamber
ionization constant
ionization current
ionization gauge
ionization potential
ionizing event
ionizing radiation
ionospheric wave
iota subscript
ipeca spurge
ippi-appa
ipse dixit
ipsissima verba
ipsissimis verbis
ipso facto
ipso jure
ir-
irid-
iridescent seaweed
iridium black
irido-
iris blue
iris diaphragm
iris family
iris green
iris mauve
iris shutter
iris stop
iris-in
iris-out
irish bull
irish coffee
irish moss
irish setter
irish terrier
irish water spaniel
irish wolfhound
irish-gaelic
iron age
iron alum
iron ammonium oxalate
iron bacteria
iron blue
iron boot
iron brick
iron brown
iron buff
iron bullet
iron calker
iron carbide
iron carbonate
iron caster
iron cement
iron chloride
iron citrate
iron clay
iron coating
iron concrete
iron corer
iron crow
iron curtain
iron deficiency anemia
iron discharger
iron dog
iron family
iron filing
iron fitter
iron forger
iron founder
iron foundry
iron gang
iron glance
iron grass
iron gray
iron grey
iron grip
iron gum
iron hand
iron hat
iron heater
iron heel
iron horse
iron hydroxide
iron law of wages
iron liquor
iron loss
iron lung
iron maiden
iron maker
iron man
iron manufacturer
iron miner
iron mining
iron minium
iron mold
iron molder
iron nerves
iron oak
iron ore
iron out
iron oxide
iron perchloride
iron planer
iron plate
iron plater
iron prospector
iron protosulphate
iron puddler
iron putty
iron pyrites
iron ration
iron rations
iron red
iron roller
iron roofer
iron rust
iron sand
iron scale
iron scrap
iron shearer
iron sickness
iron sodium oxalate
iron spinel
iron sponge
iron stand
iron stretcher
iron sulfate
iron sulphate
iron sulphide
iron tree
iron trichloride
iron trimmer
iron vit
iron vitriol
iron will
iron yellow
iron-banded
iron-bark
iron-barred
iron-black
iron-blue dun
iron-blue spinner
iron-bound
iron-boweled
iron-braced
iron-branded
iron-burnt
iron-calked
iron-sick
iron-souled
iron-spotted
iron-stained
iron-strapped
iron-studded
iron-tipped
iron-tired
iron-toothed
iron-tree
iron-vane meter
iron-visaged
iron-willed
iron-winged
iron-witted
iron-worded
ironbark acacia
ironbark box
ironbound coast
ironbound security
ironclad agreement
ironclad oath
ironclad proof
ironclad ram
ironclad reasoning
ironer-up
ironic implication
ironic juxtaposition
ironic suggestion
ironing board
irons in the fire
ironstone china
irony-proof
irradiation therapy
irrational number
irreducible and stubborn facts
irreducible content
irrefutable logic
irregular motion
irregular warfare
irrepressible optimist
irresistible force
irresistible impulse
irresolute person
irrespective of
irrigating shovel
irrigation ditch
irrigation engineer
irrigation engineering
irritable bowel syndrome
irritable heart
irritable man
irritable temper
irritation fever
irritation-proof
is-
is-it
isamine blue
isat-
ischemic heart disease
ischio-
ising-star
island arc
island base
island chain
island continent
island group
island myrtle
island of Langerhans
island of Reil
island universe
island-belted
island-born
island-contained
island-dotted
island-dweller
island-hop
island-strewn
island-studded
islet of Langerhans
islet of langerhans
islets of Langerhans
iso-
iso-octane
iso-osmotic
iso-urea
iso-uretine
iso-uric
isoamyl acetate
isoamyl benzoate
isoamyl benzyl ether
isoamyl group
isoamyl nitrite
isoamyl radical
isoamyl salicylate
isobaric line
isobutyl propionate
isoclinal line
isoclinic line
isocyanic acid
isocyanate group
isocyanate radical
isoelectric point
isogonal line
isogonic line
isogenic point
isolate yourself
isolating language
isolation booth
isolation hospital
isolation ward
isomagnetic line
isometric drawing
isometric exercises
isometric line
isometric projection
isonicotinic acid hydrazide
isophthalic acid
isopiestic line
isoplastic graft
isoporic line
isopropyl alcohol
isopropyl ether
isopropyl group
isopropyl meprobamate
isopropyl radical
isosceles triangle
isothermal line
isothermal process
isothermal region
isothiocyanate group
isothiocyanate radical
isotope therapy
isotopic isobar
isoxyclic acid
issue a blank check
issue a caveat
issue a command
issue a manifesto
issue a position paper
issue a prohibitory injunction
issue a statement
issue a white paper
issue a writ
issue an injunction
issue an injunction against
issue an invitation
issue an ultimatum
issue forth
issue from
issue par
issue price
issue securities
issue stock
issued capital stock
issuing company
isthmus of the fauces
it beats me
it beats the Dutch
it being provided
it can be supposed
it cannot be helped
it does not matter
it does not signify
it follows that
it has me guessing
it is all the same
it is certain
it is fated
it is for a fact
it is necessary
it is of no consequence
it is of no importance
it is proven
it is said
it is that
it is written
it makes no difference
it matters not
it may be
it might be thought
it must be
it must follow
it must have its way
it must needs be
it needs must be
it stands to reason
it will all come out in the wash
it will be
it would appear
it's God's will
it's Greek to me
it's all one to me
it's all the same to me
it's beyond me
it's in the cards
it's no go
it's too deep for me
ita-palm
itaconic acid
italian sonnet
italo-
itch for
itch for knowledge
itch house
itch mite
itch to
itch tree
itching for
itching palm
itching to
itchwood tree
item by item
item of evidence
item on the agenda
item veto
itemized bill
iterated integral
its last legs
its way
itsy-bitsy
itsy-witsy
itty-bitty
iu-
ivied halls
ivory black
ivory bleacher
ivory board
ivory brown
ivory carver
ivory carving
ivory cutter
ivory engraver
ivory fluter
ivory gull
ivory hunter
ivory hunting
ivory nut
ivory palm
ivory paper
ivory plant
ivory plum
ivory polisher
ivory porcelain
ivory rounder
ivory slabber
ivory sorter
ivory thumper
ivory tickler
ivory tower
ivory tree
ivory yellow
ivory-backed
ivory-beaked
ivory-billed
ivory-billed woodpecker
ivory-black
ivory-bound
ivory-carving
ivory-faced
ivory-finished
ivory-hafted
ivory-handled
ivory-headed
ivory-hilted
ivory-studded
ivory-tinted
ivory-toned
ivory-tower
ivory-towered
ivory-towerish
ivory-towerishness
ivory-towerism
ivory-towerist
ivory-towerite
ivory-type
ivory-white
ivory-wristed
ivy League
ivy bush
ivy geranium
ivy green
ivy gum
ivy league
ivy tree
ivy vine
ivy-bush
jack press
jack rabbit
jack rafter
jack rib
jack rod
jack roll
jack rope
jack saddle
jack salmon
jack shave
jack spinner
jack spring
jack staff
jack stop
jack stretcher
jack stringer
jack timber
jack towel
jack tree
jack truss
jack up
jack worm
jack yard
jack-a-dandies
jack-a-dandy
jack-a-dandyism
jack-a-lent
jack-at-a-pinch
jack-boot
jack-booted
jack-boy
jack-by-the-hedge
jack-chain
jack-frame
jack-fruit
jack-in-a-box
jack-in-a-boxes
jack-in-office
jack-in-the-box
jack-in-the-boxes
jack-in-the-green
jack-in-the-pulpit
jack-in-the-pulpits
jack-knife
jack-line
jack-o'-lantern
jack-o-lantern
jack-of-all-trades
jag spike
jagged-toothed
jagger spring
jaggery palm
jagging iron
jaguar-man
jai alai
jail delivery
jail fever
jail-bird
jail-delivery
jail-fever
jake leg
jalee work
jam in
jam nut
jam riveter
jam session
jam through
jam up
jam weld
jam-full
jam-pack
jam-packed
jam-up
jamaica ginger
jamaica rum
jamais de la vie
jamb shaft
jambe de mouton
jamestown-weed
janca tree
jane doe
jane-of-apes
jangada fiber
jangada tree
jangle the nerves
jangled nerves
januis clausius
janus geminus
Japan allspice
Japan clover
Japan drier
Japan wax
Japanese beetle
Japanese iris
Japanese millet
Japanese mink
jaw crusher
jaw jerk
jaw lizard
jaw rope
jaw slide
jaw wrench
jaw's-harp
jaw-bone
jaw-cracking
jaw-fall
jaw-fallen
jaw-locked
jaw-tied
jaw-twister
jaws of death
jay bird
jay blue
jay teal
jay-bird
jay-hawker
jay-vee
jazz band
jazz festival
jazz musician
jazz singer
jazz stick
jazz up
jazzed up
je ne sais quoi
je vous en prie
je vous remercie beaucoup
je-te
jealous-hood
jealous-pated
jealousy-proof
jecoric acid
jedding ax
jeep carrier
jeepers creepers
jeer at
jeer capstan
jefferson davis's birthday
jefferson day
jeffrey pine
jehovah's witnesses
jejun-
jejuno-colostomy
jejuno-ileostomy
jejuno-jejunostomy
jekyll and hyde
jell-o
jellied gasoline
jelly baby
jelly bag
jelly bean
jelly boiler
jelly doughnut
jelly egg
jelly lichen
jelly nut
jelly plant
jelly poke
jelly powder
jelly roll
jelly-fish
jennie harp
jenny ass
jenny cutthroat
jenny howlet
jenny scaffold
jenny winch
jenny wren
jenny yard
jeopardy assessment
jequirity bean
jequirity beans
jerboa kangaroo
jerboa mouse
jerboa rat
jerk back
jerk line
jerk off
jerk pump
jerk up
jerk-off
jerkin-head
jerking off
jerkinhead roof
jerkwater town
jerm-
jerry can
jerry hat
jerry shop
jerry-build
jerry-builder
jerry-building
jib boom
jib cat
jib crane
jib door
jib guy
jib iron
jib martingale
jib netting
jib pole
jib sheet
jib stay
jib topsail
jib traveler
jib-boom
jib-door
jib-headed
jib-header
jib-o-jib
jibber jib
jibber the kibber
jibe all standing
jibe at
jig borer
jig brow
jig bushing
jig button
jig indicator
jig saw
jig-back
jig-drill
jig-file
jig-jig
jig-jog
jig-joggy
jig-saw
jigger boom
jigger flea
jigger mast
jigger pump
jigger saw
jigger weed
jiggery-pokery
jigog ring
jigsaw puzzle
jill-flirt
jim crow
jim crowism
jim dash
jim-crow
jim-dandy
jim-dandy peach
jim-jam
jimson weed
jimson-weed
jin ricksha
jingle bell
jingle shell
jingle stick
jingle-jangle
jingling John
jingling Johnny
jinny road
jitney driver
jiu-jitsu
jive talk
jnana-marga
jo-darter
job action
job analysis
job card
job case
job classification
job costing
job description
job font
job lot
job of work
job order
job press
job printer
job printing
job ticket
job type
job watch
job work
job's comforter
job's tears
job-order costing
jobbing printer
jock strap
jockey backstay
jockey bar
jockey boot
jockey box
jockey cap
jockey club
join in a conversation
join in fellowship
join in holy wedlock
join in marriage
join in the chorus
join issue
join issue upon
join the angels
join the choir invisible
join the great majority
join the majority
join the opposition
join the parade
join together
join up
join up with
join with
join your ancestors
join your fortunes with
join yourself to
join yourself with
join-
joiner bulkhead
joiner door
joiner hardware
joiner work
joining of forces
joining-hand
joint account
joint and last survivor annuity
joint bar
joint bond
joint box
joint chair
joint chairmanship
joint clay
joint committee
joint control
joint density function
joint discussion
joint effort
joint filler
joint fir
joint gap
joint grass
joint heir
joint hinge
joint ill
joint life annuity
joint life insurance
joint making
joint operation
joint operations
joint ownership
joint pin
joint rate
joint resolution
joint return
joint runner
joint rust
joint sensation
joint sense
joint session
joint snake
joint stock
joint stool
joint tenancy
joint wire
joint-bedded
joint-ring
joint-stock association
joint-stock company
joint-stockism
joint-stool
joint-tenant
joint-worm
jointer plane
jointing plane
joke with whiskers
joke writer
joking-relative
jolly bean
jolly boat
jolly fellow
jolly jumper
jolly roger
jolly-boat
jolt head
jolt-wagon
jolter-head
jonah crab
jonquil yellow
jook joint
jordan almond
joseph's coat
joshua tree
joss flower
joss house
joss paper
joss pidgin
joss stick
jostling of sounds
jot down
jour maigre
journal bearing
journal box
journal bronze
journal intime
journal turbine
journal voucher
journal-book
journalism school
journaux intimes
journey weight
journey's end
journey-work
journeyman work
jouvence blue
joy girl
joy powder
joy ride
joy rider
joy riding
joy stick
joy-bereft
joy-bright
joy-bringing
joy-deserted
joy-dispelling
joy-encompassed
joy-inspiring
joy-juice
joy-killer
joy-mixed
joy-rapt
joy-resounding
joy-ridden
joy-ride
joy-riding
joy-rode
joy-wrung
ju-ju
ju-jitsu
jubilant display
judicial murder
judicial oath
judicial process
judicial punishment
judicial review
judicial separation
judo expert
jug band
jug plant
jug wine
jug-bitten
jug-handle
jug-jug
jugal bone
jugal furrow
jugal point
jugged hare
juggler's trick
jugular vein
juice extractor
juice pear
juice up
juicy morsel
jujitsu expert
jujube plum
juke house
juke joint
julian calendar
jumbee bean
jumble sale
jumble together
jumbo jet
jump Computer technol
jump a claim
jump a mile
jump aboard
jump about
jump all over
jump all over someone
jump area
jump at
jump at the bidding of
jump bail
jump ball
jump bid
jump dial
jump discontinuity
jump down your throat
jump frog
jump head
jump in
jump into
jump jet
jump joint
jump leads
jump line
jump off
jump on
jump on the bandwagon
jump out
jump out of your skin
jump over
jump pass
jump ring
jump rope
jump saw
jump scrape
jump seat
jump ship
jump shot
jump spark
jump stroke
jump suit
jump the gun
jump to a conclusion
jump to it
jump turn
jump up
jump weld
jump wire
jump-
jump-hop
jump-off
jump-shift
jump-spark coil
jump-start
jump-up
jumped-up
jumper cable
jumper lead
jumper sled
jumper stay
jumper wire
jumping bean
jumping disease
jumping jack
jumping mouse
jumping pain
jumping plant louse
jumping spider
jumping-off place
jumping-off-place
jumpy as a cat on a hot tin roof
junction box
junction transistor
juncture of events
june beetle
jungle ballot
jungle bear
jungle bendy
jungle bunny
jungle cat
jungle cock
jungle fever
jungle fowl
jungle geranium
jungle green
jungle gym
jungle hen
jungle juice
jungle ox
jungle rice
jungle rot
jungle sheep
jungle warfare
jungle-clad
jungle-covered
jungle-traveling
jungle-walking
jungle-worn
junior barister
junior chamber of commerce
junior college
junior common room
junior counsel
junior high
junior high school
junior leaguer
junior lightweight
junior middleweight
junior miss
junior officer
junior school
junior securities
junior varsity
junior welterweight
juniper bay
juniper berries
juniper berry
juniper cedar
juniper gum tree
juniper oil
juniper tree
juniper webworm
juniper-berry oil
juniper-tar oil
juniperic acid
junk bottle
junk collector
junk dealer
junk food
junk heap
junk jewelry
junk mail
junk peddler
junk ring
junk room
junk shop
junk yard
junk-bottle
jupiter's beard
jure divino
jure humano
juridical days
juristic act
juristic person
jury box
jury chancellor
jury fixing
jury list
jury mast
jury of inquest
jury of matrons
jury of the vicinage
jury of women
jury of your peers
jury panel
jury process
jury room
jury selection
jury skid
jury trial
jury wheel
jury-
jury-fixer
jury-mast
jury-packing
jury-rig
jury-rigged
jury-rigged expedient
jury-rigging
jury-shy
jury-squaring
jus canonicum
jus civile
jus commune
jus divinum
jus ecclesiasticum
jus gentium
jus inter gentes
jus naturae
jus naturale
jus postliminii
jus primae noctis
jus publicum
jus sanguinis
jus scriptum
jus soli
just a bit
just about
just across the street
just alike
just around the corner
just as predicted
just as you thought
just be
just being
just dandy
just deserts
just do
just enough
just expectation
just folks
just here
just imagine
just in case
just in time
just intonation
just know
just like one
just like that
just next door
just noticeable difference
just now
just once
just opposite
just out
just plain nuts
just right
just see
just so
just the opposite
just the other way
just the other way around
just the reverse
just the same
just then
just this once
just to be doing
just under the wire
just what the doctor ordered
juste-milieu
juste-milieux
justice box
justice court
justice in eyre
justice of assize
justice of the peace
justice seat
justice's warrant
justice-dealing
justice-loving
justice-proof
justice-slighting
 justices in eyre
justifiable abortion
justifiable expectation
justifiable homicide
justification by faith
justification by works
justification space
justify hope
justify one in supposing
justifying space
justitia omnibus
jut out
jut over
jute board
jute butts
jute crusher
jute opener
jute tier
juvenal plumage
juvenile book
juvenile court
juvenile delinquency
juvenile delinquent
juvenile dictionary
juvenile editor
juvenile hormone
juvenile lead
juvenile officer
juxta-ampullar
juxta-articular
juxtapose in opposition
k ration
k'ai shu
k-meson
kA
kCi
kG
kHz
kJ
kMc
kOe
kV
kVA
kVAH
kVAr
kW
kWh
ka-
kaawi yam
kabuto gane
kachang puteh
kachina doll
kad-
kaffee klatsch
kaffir beer
kaffir corn
kafir corn
kai-kai
kailyard school
kainic acid
kairotic moment
kairotic time
keen-o
keen-o-peachy
keen-scented
keen-sighted
keen-witted
keen-wittedness
keena nuts
keep a check of
keep a check on
keep a civil tongue in your head
keep a course
keep a firm hand on
keep a firm hold upon
keep a good leeway
keep a good lookout
keep a good lookout for
keep a good margin
keep a good offering
keep a happy medium
keep a light in the window
keep a middle course
keep a nose to the wind
keep a sharp eye on
keep a sharp eye upon
keep a sharp lookout
keep a sharp lookout for
keep a stiff upper lip
keep a straight face
keep a tight hand on
keep a tight hand upon
keep a tight rein on
keep a watch
keep a weather eye open
keep abreast of the times
keep account of
keep accounts
keep afloat
keep alert
keep alive
keep alive in your thoughts
keep aloof
keep aloof from
keep an account with
keep an ace up your sleeve
keep an ear to the ground
keep an eye on
keep an eye out for
keep an eye upon
keep an idea
keep an open house
keep an open mind
keep apart
keep as a nest egg
keep aside
keep at
keep at a distance
keep at a respectful distance
keep at arm's length
keep at bay
keep at it
keep at your beck and call
keep awake
keep away
keep away from
keep bachelor quarters
keep back
keep banker's hours
keep between us
keep body and soul together
keep books
keep both feet on the ground
keep busy
keep buttoned up
keep by one
keep calm
keep clear of
keep close
keep close to
keep coming
keep company
keep company with
keep cool
keep count of
keep dark
keep doggedly at
keep down
keep driving
keep everyone waiting
keep faith
keep faith with
keep fit
keep fresh
keep from
keep from harm
keep from laughing
keep from spreading
keep going
keep guard
keep hands off
keep her so
keep her steady
keep hidden
keep hold of
keep hold of the land
keep hope alive
keep hoping
keep house
keep in
keep in bounds
keep in check
keep in contact with
keep in countenance
keep in custody
keep in detention
keep in formation
keep in hand
keep in ignorance
keep in line
keep in memory
keep in mind
keep in order
keep in practice
keep in reserve
keep in sight
keep in step
keep in store
keep in suspense
keep in the background
keep in the dark
keep in the middle of the road
keep in the right path
keep in touch
keep in touch with
keep in view
keep in with
keep informed
keep intact
keep inviolate
keep it a deep
keep it under your hat
keep kosher
keep late hours
keep moving
keep mum
keep off
keep off and on
keep on
keep on good terms
keep on hand
keep on the go
keep on the safe side
keep open house
keep out
keep out of harm's way
keep out of mischief
keep out of sight
keep out of the way
keep out of the way of
keep pace with
keep pointed
keep posted
keep quiet
keep remote from
keep safe
keep score
keep secret
keep shady
keep silence
keep silent
keep snug
keep something for a rainy day
keep station
keep step
keep step with
keep still
keep subject
keep tab
keep tab on
keep tabs
keep tabs on
keep tally
keep the ball rolling
keep the change
keep the course
keep the door open
keep the ears on the ground
keep the ears to the ground
keep the even tenor of your way
keep the eyes upon
keep the faith
keep the field
keep the golden mean
keep the heading
keep the lid on
keep the memory alive
keep the peace
keep the pot boiling
keep the wolf from the door
keep the wound open
keep time
keep to
keep to the middle
keep to the middle path
keep to the middle way
keep to yourself
keep together
keep track of
keep trutth
keep trying
keep under
keep under control
keep under cover
keep under lock and key
keep under observation
keep under wraps
keep under your thumb
keep up
keep up a correspondence
keep up a fast pace
keep up a killing pace
keep up appearances
keep up on
keep up the good work
keep up the memory of
keep up to date
keep up to standard
keep up with
keep up with the Joneses
keep up your courage
keep uppermost in your thought
keep vigil
keep watch
keep watch and ward
keep watch over
keep within
keep within bounds
keep within compass
keep within limits
keep within these walls
keep within your budget
keep within your means
keep you guessing
keep you on edge
keep you on pins and needles
keep you on tenterhooks
keep you posted
keep your chin up
keep your cool
keep your course
keep your distance
keep your ear to the ground
keep your ears open
keep your esthetic distance
keep your eye on the ball
keep your eye peeled
keep your eyes on the stars
keep your eyes open
keep your eyes peeled
keep your eyes skinned
keep your fingers crossed
keep your footing
keep your freedom
keep your hand in
keep your head
keep your head above water
keep your mouth shut
keep your nose out of this
keep your nose to the grindstone
keep your own counsel
keep your pecker up
keep your place
keep your powder dry
keep your promise
keep your shirt on
keep your spirits up
keep your sword in its sheath
keep your temper
keep your trap shut
keep your weather eye open
keep your word
keep your yap shut
keep yourself to yourself
keep yourself under control
keeper hook
keeper ring
keeping apart
keeping flocks and herds
keeping in
key man
key money
key move
key of the Nile
key pad
key pattern
key pin
key pipe
key plate
key plug
key punch
key ring
key rocker
key scarf
key seat
key sentence
key signature
key size
key station
key stop
key to
key to the city
key tone
key trait
key trumpet
key up
key word
key-bugle
key-cold
key-drawing
key-note
key-seat rule
keyed up
keyed-up
keyhole limpet
keyhole saw
keyhole urchin
keyman insurance
keynote address
keynote speech
keystone joist
keystone sack
keyway caliper
keyway drill
kg-m
khaki bush
khaki campbell
khaki weed
khaki-clad
khaki-clothed
khaki-colored
khaki-hued
kheu tree
khus-khus
ki-yi
kiabooca wood
kick about
kick against
kick against the pricks
kick around
kick back
kick down the ladder
kick downstairs
kick in
kick in the teeth
kick off
kick off an attack
kick out
kick over
kick over the traces
kick plait
kick plate
kick pleat
kick start
kick starter
kick the air
kick the beam
kick the bucket
kick the clouds
kick the habit
kick the wind
kick turn
kick up
kick up a dust
kick up a hullabaloo
kick up a racket
kick up a row
kick up a shindy
kick up dust
kick up your heels
kick upstairs
kick wheel
kick you in the teeth
kick your habit
kick your heels
kick yourself
kick-about
kick-off
kick-sled
kick-start
kick-up
kickie-wickie
kicking coil
kicking downstairs
kicking out
kicking strap
kicking tackle
kicking upstairs
kicking-colt
kicking-horses
kicsey-winsey
kicksie-wicksie
kicksy-wicksy
kid along
kid around
kid brother
kid glove
kid gloves
kid out of
kid point
kid sister
kid stuff
kid yourself
kid-glove
kid-glove orange
kid-glove politics
kid-gloved
kid-skin
kiddie car
kidding around
kiddy car
kidney basin
kidney bean
kidney beans
kidney corpuscle
kidney cotton
kidney disease
kidney liverleaf
kidney machine
kidney oil
kidney ore
kidney pie
kidney stone
kidney transplant
kidney vetch
kidney worm
kidney-bean tree
kidney-leaved
kidney-shaped
kids' stuff
kikuyu grass
kill by inches
kill en masse
kill off
kill the fatted calf
kill the slain
kill time
kill two birds with one stone
kill with kindness
kill yourself
kill-
kill-courtesy
kill-cow
kill-crazy
kill-crazy animal
kill-devil
kill-joy
kill-kid
kill-time
kill-wart
killdeer plover
killed bowl
killed spirits
killed-virus vaccine
killer boat
killer whale
killer-diller
killing bottle
killing frost
killing ground
killing pace
killing site
killing time
killy hawk
kiln evaporator
kiln foreman
kiln run brick
kiln scum
kiln-burnt
kiln-dried
kiln-drying
king bee
king bridge
king card
king carp
king closer
king closure
king clover
king cobra
king conch
king crab
king crow
king devil
king eagle
king eider
king fern
king james version
king leg
king lory
king mackerel
king monkey
king mullet
king nut
king of arms
king of beasts
king of the castle
king of the forest
king of the herrings
king of the hill
king of the mountain
king ortolan
king parakeet
king penguin
king plank
king plant
king post
king prawn
king quail
king rail
king rod
king row
king salmon
king size
king snake
king sora
king spoke
king tody
king truss
king vulture
king's English
king's bench
king's birthday
king's blue
king's colour
king's colours
king's counsel
king's english
king's evidence
king's evil
king's highway
king's man
king's pattern
king's peace
king's purple
king's ransom
king's scout
king's shilling
king's weather
king's yellow
king's-pawn openings
king-bird
king-bolt
king-crab
king-craft
king-cup
king-emperor
king-fish
king-hit
king-killer
king-maker
king-of-arms
king-of-the-herrings
king-of-the-salmon
king-piece
king-pin
king-post
king-post truss
king-ridden
king-size
king-size bed
king-sized
king-whiting
king-whitings
kingdom come
kingdom of God
kingdom of ends
kingdom of glory
kingdom of heaven
kingfisher daisy
kings-of-arms
kink in one's horn
kino gum
kinship group
kip down
kip-ft
kipper-nut
kippered herring
kippered salmon
kirby hook
kirk master
kirk session
kirk skail
kirk-shot
kim baby
kim cut
kislar aga
kiss and make up
kiss cheeks
kiss curl
kiss good-bye
kiss hands
kiss of death
kiss of life
kiss of peace
kiss off
kiss one's feet
kiss the book
kiss the hem of your garment
kiss the rod
kiss your ass
kiss your feet
kiss-me
kiss-me-quick
kiss-off
kissing and making up
kissing bug
kissing cousin
kissing crust
kissing dance
kissing disease
kissing gate
kissing gourami
kissing kin
kissing strings
kit and boodle
kit and caboodle
kit bag
kit fiddle
kit fox
kit out
kit violin
kit-cat
kit-fox
kitchen bob
kitchen boiler
kitchen cabinet
kitchen fee
kitchen garden
kitchen gardener
kitchen ground
kitchen kaffir
kitchen match
kitchen midden
kitchen police
kitchen range
kitchen rose
kitchen saw
kitchen servant
kitchen sink
kitchen space
kitchen stuff
kitchen table
kitchen tea
kitchen work
kitchen-midden
kite balloon
kite bar
kite eagle
kite falcon
kite fighting
kite sausage
kite track
kite winder
kite-tailed
kite-wind
kited check
kith and kin
kitten moth
kitten-breeches
kittly-benders
kitty needy
kitty witch
kitty wren
kitty-cat
kitty-corner
kitty-cornered
kl-
kleig light
klept-
klieg eyes
klieg light
klook-klook
kn-
knap-bottle
knapsack sprayer
knave-child
kneaded butter
kneading-trough
knee action
knee bend
knee bone
knee brace
knee breeches
knee colter
knee cop
knee drill
knee drop
knee grass
knee guard
knee halter
knee holly
knee holm
knee jerk
knee joint
knee pants
knee pine
knee plate
knee puff
knee punch
knee rafter
knee roof
knee socks
knee strap
knee swell
knee timber
knee tool
knee viol
knee-bent
knee-bowed
knee-braced
knee-breeched
knee-cap
knee-crooking
knee-deep
knee-high
knee-high to a grasshopper
knee-hole
knee-joint
knee-jointed
knee-length
knee-pan
knee-shaking
knee-shaped
knee-sprung
knee-tied
knee-timber
knee-worn
kneed grass
kneel to
kneeling rafter
kneeling stool
knell-like
knick-knack
knife acacia
knife and fork
knife bar
knife bayonet
knife box
knife colter
knife edge
knife file
knife grass
knife grinder
knife key
knife lanyard
knife money
knife plait
knife plaiting
knife pleat
knife poised at your throat
knife rest
knife stone
knife switch
knife tool
knife-backed
knife-bladed
knife-board
knife-edge
knife-edged
knights-errant
knit goods
knit the brow
knitting case
knitting machine
knitting needle
knitting pin
knitting sheath
knitting stick
knitting wire
knob celery
knob latch
knob lock
knob-billed
knob-nosed
knobbling fire
knobbling roll
knobcone pine
knock about
knock against
knock around
knock back
knock cold
knock dead
knock down
knock for a loop
knock galley-west
knock in
knock in the head
knock into a cocked hat
knock into your head
knock it off
knock off
knock on the head
knock on wood
knock out
knock out of the box
knock over
knock rummy
knock senseless
knock stiff
knock the bottom out of
knock the chip off your shoulder
knock the chocks
knock the chocks out from under
knock the props out from under
knock together
knock unconscious
knock under
knock up
knock you off your perch
knock your brains out
knock your eyes out
knock your head against
knock yourself out
knock-
knock-about
knock-down
knock-down-and-drag
knock-down-and-drag-out
knock-down-and-drag-out fight
knock-down-and-drag-out quarrel
knock-down-drag-out
knock-knee
knock-kneed
knock-knees
knock-me-down
knock-on
knock-out
knockdown argument
knocked flat
knocked out
knocked silly
knocked up
knocked-down
knocker-off
knocker-up
knocking-shop
knockout blow
knockout drop
knockout drops
knol-khol
knop yarn
knot bindweed
knot clipper
knot gall
knot garden
knot porter
knot stitch
knot tier
knot-grass
knot-jointed
knot-jointed rice grass
knot-portering
knotgrass spurge
knotroot grass
knotted score
knotter bill
knotter hook
knotting bill
knotty pine
knotty point
knotty question
knotty rhatany
knotty-leaved
knotty-pated
knotweed spurge
know a hawk from a handsaw
know a little
know a thing or two
know a trick worth two of that
know again
know all the answers
know all the ins and outs
know all the moves of the game
know all the tricks
know all the tricks of the trade
know backwards
know backwards and forwards
know beforehand
know by heart
know by rote
know by sight
know damn well
know darn well
know down to the ground
know for certain
know from A to Z
know from alpha to omega
know from nothing
know from the ground up
know full well
know inside out
know instinctively
know it all
know it-all
know like a book
know like the back of your hand
know no bounds
know no end
know no wrong
know not
know not what
know nothing
know nothing of
know the
know the ropes
know the score
know the ways of the world
know well
know what it's all about
know what's what
know when you have had enough
know which is which
know your ass from your elbow
know your onions
know your own mind
know your stuff
know your way about
know-all
know-how
know-it-all
know-little
know-nothing
know-nothingism
know-nothingness
knowledge of the world
knowledge without reason
knowledge without thought
knowledge-gap
known as
known by every schoolboy
known by measurement
known by the name of
known quantity
knuckle ball
knuckle bow
knuckle down
knuckle down to
knuckle gear
knuckle gearing
knuckle guard
knuckle joint
knuckle line
knuckle molding
knuckle pin
knuckle post
knuckle timber
knuckle tip
knuckle to
knuckle tooth
knuckle under
knuckle under to
knuckle-bone
knuckle-deep
knuckle-duster
knuckle-dusters
knuckle-joint
knuckle-joint press
knuckle-kneed
knurl toe
ko-katana
koa finch
koda millet
koh-i-noor
koi-kopal
kok-saghyz
kokra wood
kokum butter
kokum oil
kol nidre
kola nut
kola tree
koloa mapu
koloa moha
komma-ichi-da
kona cyclone
kona storm
konker tree
koppel flute
kosam seeds
kosher soap
kosher wine
kottabos kataktos
kousso flower
kow-tow
kraft paper
kraft process
kraut grass
krebs cycle
krems lead
krenging hook
kriss kringle
kriya-sakti
kriya-shakti
krym-saghyz
kryo-
kul klux klan
ku kluxer
ku-klux
kudzu vine
kugel granite
kujira shaku
kung chih
kung chin
kung ching
kung fen
kung fu
kung-fu
kungu cake
kuo-yu
kuping tael
kurchee bark
kuroshio extension
kuroshio system
kurrol's salt
kuteera gum
kutira gum
kwe-bird
kyano-
kyrie eleison
l'istesso tempo
l'union fait la force
l-
l-arterenol
l-glucose
l-noradrenaline
l-norepinephrine
la carte
la grippe
la guerre
la mode
la patrie
la recherche du temps perdu
la ronde
la tene
la-de-da
la-di-da
la-la
laap insect
laap insects
label stop
labeled atom
labeled element
labia majora
labia minora
labial pipe
labio-
labium majus
labium minus
labium minus pudendi
labor against
labor and bring forth
labor bank
labor camp
labor caucus
labor contract
labor costs
labor day
labor exchange
labor force
labor in behalf of
labor in darkness
labor in vain
labor in your vocation
labor interests
labor lost
labor market
labor movement
labor of Sisyphus
labor of love
labor omnia vincit
labor organizer
labor pains
labor relations
labor room
labor spy
labor strike
labor the obvious
labor turnover
labor under
labor under a disadvantage
labor under a false impression
labor under difficulties
labor union
labor unionist
labor value theory
labor-saving
labor-saving device
laborare est orare
laboratory animal
laboratory apparatus
laboratory assistant
laboratory camera
laboratory chemist
laboratory course
lace plant
lace shoes
lace stitch
lace tree
lace trimming
lace up
lace vine
lace-bordered
lace-covered
lace-curtain
lace-curtained
lace-edged
lace-fern
lace-finishing
lace-fronted
lace-leaf
lace-leaves
lace-piece
lace-trimmed
lace-vine
lace-winged
lacerate the ear
lacerate the heart
lacertus fibrosus
lacewing fly
lachryma Christi
lachryma christi
lachrymal bone
lachrymatory gas
lacing course
lack force
lack in
lack of affect
lack of agreement
lack of appetite
lack of bite
lack of charisma
lack of charm
lack of claim
lack of color
lack of concord
lack of contact
lack of depth
lack of eagerness
lack of enthusiasm
lack of feeling
lack of feeling tone
lack of feelings
lack of finish
lack of food
lack of force
lack of foresight
lack of forethought
lack of hindrance
lack of incisiveness
lack of influence
lack of information
lack of integrity
lack of interest
lack of magnetism
lack of meaning
lack of message
lack of parallelism
lack of personality
lack of pleasure
lack of polish
lack of power
lack of preparation
lack of refinement
lack of respect
lack of self-confidence
lack of self-reliance
lack of sentimentality
lack of sheen
lack of sparkle
lack of title
lack of touch
lack of vision
lack of weight
lack of zeal
lack regularity
lack-all
lack-beard
lack-brain
lack-fettle
lack-latin
lack-learning
lack-linen
lack-love
lack-lustre
lack-pity
lacquer red
lacquer tree
lacquer ware
lacrim-
lacrimal bone
lacrimal duct
lacrimal gland
lacrimal sac
lacrosse stick
lact-
lactate dehydrogenase
lacteal gland
lactic acid
lacto-
lactogenic hormone
lactose intolerance
lacunar amnesia
lacustrine dweller
lacustrine dwelling
lacustrine inhabitant
lad's love
ladder back
ladder beetle
ladder braid
ladder chain
ladder company
ladder jack
ladder pipe
ladder road
ladder shell
ladder stitch
ladder tournament
ladder track
ladder truck
ladder-back
ladder-back chair
ladder-backed
laden with doom
laden with significance
laden with sorrow
ladies' fingers
ladies' gallery
ladies' man
ladies' room
ladies' wear
ladies'-tobacco
ladies'-tobaccoes
ladies'-tobaccos
ladies'-wear shop
ladies-in-waiting
ladies-of-the-night
ladies-tresses
ladle board
ladle out
lady apple
lady beetle
lady bountiful
lady bracken
lady brake
lady chair
lady chapel
lady court
lady crab
lady cracker
lady day
lady fair
lady fern
lady friend
lady grass
lady hair grass
lady killer
lady love
lady mayoress
lady of pleasure
lady of the bedchamber
lady of the evening
lady of the house
lady pea
lady superior
lady whin
lady woman
lady wrack
lady's bedstraw
lady's cushion
lady's finger
lady's glove
lady's laces
lady's maid
lady's man
lady's mantle
lady's slipper
lady's thumb
lady's traces
lady's-eardrop
lady's-mantle
lady's-slipper
lady's-smock
lady's-thistle
lady's-thumb
lady's-tresses
lady-bird
lady-cow
lady-fish
lady-help
lady-in-waiting
lady-killer
lady-killing
lady-love
lady-of-the-night
lady-slipper
lady-smock
ladybird beetle
laetare sunday
laevo-
lag b'omer
lag behind
lag bolt
lag fault
lag line
lag screw
lag-bed tractor
lager beer
laggen-gird
lagging load
lah-di-dah
laid aside
laid bare
laid batonne
laid deck
laid embroidery
laid low
laid off
laid on the shelf
laid paper
laid up
laid wool
laisser aller
laisser faire
laisser passer
laisser-aller
laisser-faire
laissez aller
laissez faire
laissez passer
laissez-aller
laissez-faire
laissez-faireism
laissez-passer
lait d'amandes
lake basin
lake bass
lake breeze
lake carp
lake chub
lake cress
lake duck
lake dweller
lake dwelling
lake fever
lake fly
lake front
lake herring
lake lawyer
lake minnow
lake of fire and brimstone
lake perch
lake perches
lake pitch
lake plover
lake salmon
lake shad
lake sheepshead
lake shore
lake sturgeon
lake trout
lake water cress
lake whitefish
lake-bound
lake-colored
lake-girt
lake-land
lake-moated
lake-reflecting
lake-resounding
lake-surrounded
lake-land terrier
lamb down
lamb lily
lamb mint
lamb pie
lamb plant
lamb tail
lamb's ears
lamb's lettuce
lamb's tails
lamb's tongue
lamb's wool
lamb's-quarters
lamb's-wool
lamb-like
lambda particle
lambdoidal suture
lambent flame
lame and impotent conclusion
lame brains
lame duck
lame excuse
lame verses
lame-born
lame-brain
lame-footed
lame-horsed
lame-legged
lamell-
lamella roof
lamellar vector
lamelli-
lament for
lamin-
laminar flow
laminar-flow system
laminar-flow-control plane
laminated glass
laminated safety glass
laminated wood
lamini-
lamp bearer
lamp cage
lamp chimney
lamp fitter
lamp holder
lamp house
lamp jack
lamp maker
lamp oil
lamp oiler
lamp shade
lamp shell
lamp socket
lamp standart
lamp trimmer
lamp-bearing
lamp-bedecked
lamp-black
lamp-blown
land bridge
land broker
land caltrop
land certificate
land chain
land cod
land crab
land crane
land cress
land crocodile
land drake
land dreadnought
land dredge
land end
land fast
land flowing with milk and honey
land force
land forces
land girl
land grant
land hunger
land lane
land law
land lead
land league
land leech
land line
land mail
land measure
land mile
land mine
land of Nod
land of Prester John
land of dreams
land of enchantment
land of faerie
land of heart's desire
land of milk and honey
land of plenty
land of promise
land of the gods
land office
land on
land on like a ton of bricks
land on your feet
land otter
land patent
land pike
land pirate
land pitch
land plaster
land power
land rail
land rat
land reform
land rock
land scale
land scrip
land scurvy
land seal
land service
land settlement
land shark
land side
land snail
land sole
land spring
land station
land steward
land surveyor
land tax
land tenure
land tie
land tortoise
land trash
land trust
land up
land urchin
land warfare
land warrant
land wheel
land wind
land with
land yard
land-bank
land-born
land-bred
land-breeze
land-cast
land-crab
land-damn
land-devouring
land-eating
land-flood
land-gavel
land-girt
landing chair
landing clerk
landing craft
landing crew
landing deck
landing edge
landing field
landing flap
landing force
landing gear
landing light
landing lights
landing line
landing net
landing pad
landing party
landing pattern
landing place
landing run
landing ship
landing signalman
landing skis
landing speed
landing stage
landing strake
landing strip
landing surveyor
landing tee
landing waiter
landing wire
landing-direction light
landing-place
landing-waiter
landlocked salmon
landlocked water
landmark beacon
landmark decision
landscape architect
landscape architecture
landscape gardener
landscape gardening
landscape marble
landscape mirror
landscape painting
landslide victory
lane route
lane snapper
lang lay
lang syne
lang-kail
langrage shot
langrel shot
language arts
language laboratory
language study
language style
langue d'o
langue d'oc
langue d'oil
langue de boeuf
langue de chat
langues de boeuf
 languish for
lank-bellied
lank-blown
lank-cheeked
lank-eared
lank-haired
lank-jawed
lank-lean
lank-sided
lank-winged
lantern bellows
lantern carrier
lantern clock
lantern fish
lantern flounder
lantern fly
lantern gear
lantern gurnard
lantern jack
lantern jaw
lantern jaws
lantern keg
lantern light
lantern lily
lantern pinion
lantern ring
lantern shell
lantern slide
lantern sprat
lantern tree
lantern wheel
lantern-jawed
lanthanide series
lanyard knot
lap box coupling
lap dissolve
lap dog
lap dovetail
lap dovetail joint
lap dovetailing
lap game
lap joint
lap link
lap microphone
lap of honour
lap of luxury
lap over
lap pack
lap plate
lap ring
lap riveting
lap robe
lap shaver
lap siding
lap table
lap up
lap weld
lap winding
lap-butted
lap-chart
lap-dog
lap-jointed
lap-lap
lap-love
lap-rivet
lap-streak
laparo-
laparo-uterotomy
laparotomy pack
lapel button
lapel microphone
lapel mike
lapel pin
lapidary bee
lapidary mill
lapis lazuli
lapis lazuli blue
lapis lazuli ware
lapp owl
lapped joint
lapped-butt joint
lappet caterpillar
large cane
large cranberry
large heart
large intestine
large meal
large number
large order
large periwinkle
large person
large size
large sum
large thing
large white
large-acred
large-ankled
large-bayed
large-billed
large-bodied
large-boned
large-bore
large-bracted
large-browed
large-built
large-caliber
large-celled
large-crowned
large-diameter
large-drawn
large-eared
large-eyed
large-finned
large-flowered
large-footed
large-framed
large-fronded
large-fruited
large-grained
large-grown
large-handed
large-handedness
large-headed
large-hearted
large-heartedness
large-hipped
large-horned
large-leaved
large-leaved cucumber tree
large-lettered
large-limbed
large-looking
large-lunged
large-minded
large-mindedly
large-mindedness
large-molded
large-natured
large-necked
large-nostriled
large-petaled
large-rayed
large-scale
large-scaled
large-size
large-sized
large-souled
large-spaced
large-stomached
large-tailed
large-thoughted
large-throated
large-toothed
large-trunked
large-type
large-utteranced
large-viewed
large-wheeled
large-wristed
largemouth bass
larger than life
lariat loop
larixinic acid
lark bunting
lark finch
lark plover
lark sparrow
lark-colored
lark-heel
lark-heeled
larspur violet
larum-bell
larval epilepsy
larval plague
larvi-
laryng-
laryngeal epilepsy
laryngis stridulus
laryngo-
laser photography
laser surgery
lash and carry
lash and tie
lash back
lash comb
lash into
lash into a frenzy
lash into a fury
lash into fury
lash line
lash out
lash out at
lash rail
lash the waves
lash up
lash-up
lasso cell
lasso harness
last act
last agony
last breath
last dab
last days
last debt
last ditch
last duty
last expedient
last extremity
last forever
last gasp
last home
last honors
last inning
last lap
last lick
last long
last maker
last making
last marin
last mile
last minute
last muster
last name
last off the mark
last offices
last out
last post
last quarter
last resort
last resource
last rest
last rites
last round
last roundup
last service
last shift
last sleep
last stage
last stop
last straw
last stroke
last supper
last survivor annuity
last thing
last things
last touch
last trumpet
last will and testament
last word
last word, the
last words
last-born
last-cited
last-cyclic
last-ditch
last-ditch fight
last-ditcher
last-erected
last-in
last-in first-out
last-made
last-mentioned
last-minute
last-minute lie
last-named
last-stage-free
lasting fame
lasting friendship
latch bolt
latch circuit
latch locking
latch needle
latch on
latch onto
latch-key
latch-string
latchkey child
late arrival
late blight
late bloomer
late developer
late greek
late hour
late in the day
late lamented
late latin
late off the mark
late riser
late wood
late-begun
late-betrayed
late-blooming
late-born
late-built
late-coined
late-come
late-comer
late-cruising
late-disturbed
late-embarked
late-filled
late-flowering
late-found
late-imprisoned
late-kissed
late-lamented
late-lingering
late-lost
late-met
late-model
late-protracted
late-ripening
late-sacked
late-taken
late-transformed
late-type star
late-wake
late-won
lateen sail
lateen-rigged
latency period
latent content
latent epilepsy
latent heat
latent image
latent learning
latent meaning
latent meaningfulness
latent period
latent strabismus
latent syphilis
latent violence
later than
later time
latera recta
lateral axis
lateral canal
lateral chain
lateral circuit
lateral drift
lateral fissure
lateral line
lateral line system
lateral lisp
lateral magnification
lateral meristem
lateral moraine
lateral pass
lateral plane
lateral resistance
lateral stability
lateral system
lateral tangent arc
lateral thinking
lateri-
latero-
latest fad
latest fashion
latest thing
latest thing, the
latest wrinkle
latest-born
latex paint
latex paper
lath and plaster
lath brick
lath cutter
lath maker
lath making
lath nail
lath nailer
lath puncher
lath splitter
lath tier
lath trimmer
lath-backed
lath-legged
lathe chuck
lathe-bore
lather up
lathered up
lathering up
lathing hammer
lathing hatchet
lati-
latin cross
latin quarter
latin square
latissimi dorsi
latissimus dorsi
latitude and longitude
latitude sailing
latrine lawyer
latrine rumor
latter end
latter-day
latter-day saint
lattice bar
lattice beam
lattice bridge
lattice girder
lattice moss
lattice plant
lattice stitch
lattice strut
lattice truss
lattice-leaf
lattice-leaves
lattice-plant family
lattice-window
lattice-work
latus rectum
lau lau
laudator temporis acti
laugh at
laugh away
laugh down
laugh fit to burst
laugh fit to bust
laugh in
laugh in your beard
laugh in your face
laugh in your sleeve
laugh it up
laugh off
laugh on the other
laugh out of court
laugh outright
laugh to scorn
laugh up
laugh up your sleeve
laugh yourself limp
laugh yourself sick
laugh yourself silly
laughing academy
laughing gas
laughing gull
laughing hyena
laughing jackass
laughing muscle
laughing stock
laughing-stock
laughter holding both his sides
laughter-dimpled
laughter-lighted
laughter-lit
laughter-loving
laughter-provoking
laughter-stirring
launch a holy war on
launch a vendetta
launch an attack
launch forth
launch into
launch into eternity
launch out against
launch pad
launch upon
launch vehicle
launch window
launch-ways
launched into eternity
launching base
launching gear
launching mortar
launching pad
launching platform
launching rack
launching ramp
launching shoe
launching tower
launching tube
launching vehicle
launching way
launching ways
laundry cart
laundry room
laundry soap
laurel bay
laurel butter
laurel camphor
laurel cherry
laurel family
laurel green
laurel hawthorn
laurel oak
laurel oil
laurel pink
laurel sumac
laurel thyme
laurel-bearing
laurel-browed
laurel-crowned
laurel-decked
laurel-leaf
laurel-leaf oil
laurel-leaved
laurel-locked
laurel-worthy
laurel-wreathed
lauric acid
lauric aldehyde
lauroyl group
lauroyl radical
lauryl alcohol
lauryl aldehyde
laus Deo
lauter tub
lava cone
lava-capped
lava-lava
lava-lit
lava-paved
lavalier microphone
lavatory pan
lavatory paper
lave net
lavender blue
lavender cotton
lavender grass
lavender oil
lavender water
lavender-blue
lavender-flowered
lavender-scented
lavender-tinted
lavender-water
laver bread
lavish care on
lavish feast
lavish upon
lavish with
lavish yourself on
law French
law agent
law and order
law binding
law buckram
law centre
law code
law court
law enforcement agency
law enforcement agent
law hand
law member
law member of a court-martial
law merchant
law of Dulong and Petit
law of Malus
law of action and reaction
law of additiv
law of additive pressures
law of averages
law of conservation of charge
law of conservation of energy
law of conservation of mass
law of contradiction
law of cosines
law of definite composition
law of definite proportions
law of equivalent retaliation
law of excluded middle
law of exponents
law of general application
law of gravitation
law of identity
law of large numbers
law of mass action
law of moses
law of motion
law of multiple proportion
law of multiple proportions
law of nations
law of nature
law of parity
law of parsimony
law of partial pressures
law of reflection
law of refraction
law of retaliation
law of sines
law of succession
law of the domicile
law of the forum
law of the jungle
law of the land
law of the mean
law of the place
law of thermodynamics
law of thought
law of trichotomy
law of universal gravitation
law office
law officer
law sakes
law school
law stationer
law term
law, the
law-abiding
law-abidingness
law-beaten
law-book
law-borrow
law-breaker
law-bred
law-condemned
law-day
law-fettered
law-hand
law-honest
law-learned
law-learnedness
law-loving
law-magnifying
law-maker
law-merchant
law-reckoning
law-revering
law-ridden
law-stationer
law-worthy
lawful authority
lawful possession
lawless person
lawn billiards
lawn bowling
lawn cart
lawn chair
lawn grass
lawn green
lawn meet
lawn mower
lawn party
lawn pennywort
lawn sleeves
lawn tennis
lawn-roller
lawn-sleeved
lawn-tennis
lawn-tractor
lawyer bush
lawyer cane
lawyer palm
lawyer reference
lawyer vine
lax stewardship
lax-flowered
lay a course
lay a course for
lay a duty on
lay a false scent
lay a fart
lay a hand on
lay a heavy hand on
lay a plot
lay a trap for
lay a wager
lay a wet blanket on
lay abbot
lay aboard
lay about
lay about one
lay aloft
lay an egg
lay an embargo on
lay analyst
lay anchor
lay aside
lay at
lay at the door of
lay at your door
lay at your feet
lay away
lay away from
lay baptism
lay bare
lay before
lay before the public
lay blame upon
lay board
lay boat
lay brother
lay by
lay by the heels
lay chalice
lay charges
lay claim to
lay clerk
lay close
lay day
lay days
lay down
lay down a plan
lay down the law
lay down your arms
lay down your tools
lay eggs
lay elder
lay emphasis upon
lay eyes on
lay fee
lay figure
lay flat
lay for
lay forward etc
lay ghosts
lay hands on
lay heads together
lay hold of
lay in
lay in a stock
lay in a store
lay in a supply
lay in provisions
lay in ruins
lay in store
lay in the earth
lay in the grave
lay in the lap of the gods
lay in the scales
lay intermediary
lay into
lay it on
lay it on the line
lay it on thick
lay it on with a trowel
lay judge
lay level
lay level with the ground
lay lord
lay low
lay me down to sleep
lay money on
lay of the land
lay of the land, the
lay off
lay off from
lay on
lay on a color
lay on color
lay on one
lay on the line
lay on the rack
lay on the table
lay one’s hand on
lay open
lay out
lay out a course
lay out money
lay out on
lay over
lay plans
lay reader
lay shaft
lay siege to
lay sister
lay stress upon
lay the ax to the root of
lay the blame on
lay the dust
lay the first stone
lay the foundation
lay the groundwork
lay the land
lay to
lay to heart
lay to rest
lay to the oars
lay to your charge
lay to your door
lay together
lay under an interdict
lay under an interdiction
lay under restraint
lay under the sod
lay up
lay up a store
lay up for
lay upon
lay vicar
lay violent hands on
lay wait
lay wait for
lay waste
lay your cards on the table
lay your course for
lay your finger on
lay your fingers on
lay your hands on
lay your money down
lay your shoulder to the wheel
lay yourself open
lay yourself open to
lay yourself out
lay-by
lay-day
lay-down
lay-fee
lay-land
lay-man
lay-minded
lay-off
lay-on
lay-out
lay-over
lay-shaft
lay-up
layaway plan
layer board
layer cake
layer tint
layer-on
layer-out
layer-over
layer-up
layers-out
laying bare
laying duck
laying of charges
laying on
laying on of hands
laying open
laying over
laying press
laying top
laying waste
layout chart
lazar house
lazar-house
lazuli bunting
lazy Susan
lazy bar
lazy crab
lazy daisy stitch
lazy eight
lazy eye
lazy guy
lazy halyard
lazy jack
lazy painter
lazy person
lazy stream
lazy susan
lazy tack
lazy tongs
lb ap
lb av
lb t
le dernier cri
le drapeau tricolore
le genre humain
le pas
le premier pas
le roi est mort vive le roi
le roi le veut
le sport
le style c'est l'homme
le tout ensemble
lea oak
lea rig
lea-land
lea-rig
lead a charmed life
lead a cloistered life
lead a dog's life
lead a retired life
lead acetate
lead acid cell
lead an easy life
lead arming
lead arsenate
lead ash
lead astray
lead azide
lead back
lead block
lead bullion
lead by the nose
lead captive
lead carbonate
lead chloride
lead chromate
lead colic
lead color
lead curve
lead dioxide
lead foil
lead glass
lead glaze
lead gray
lead into captivity
lead item
lead line
lead mill
lead mining
lead monoxide
lead nitrate
lead ocher
lead off
lead on
lead one a dance
lead one a merry chase
lead out
lead oxide
lead oxychloride
lead palsy
lead pencil
lead peroxide
lead pilot
lead pipe cinch
lead poisoning
lead rammer
lead role
lead runner
lead screw
lead sheet
lead singer
lead soap
lead someone a chase
lead spar
lead sulphate
lead sulphide
lead tetraethyl
lead the dance
lead the mind astray
lead the way
lead time
lead to
lead to believe
lead to the altar
lead tolerance
lead track
lead tree
lead up
lead up the garden path
lead up to
lead vinegar
lead vitriol
lead weed
lead white
lead you a chase
lead you a pretty dance
lead you to
lead you to expect
lead you to gather
lead you up the garden path
lead-acid battery
lead-blue
lead-burn
lead-burned
lead-burner
lead-burning
lead-chamber process
lead-clad
lead-coated
lead-colored
lead-covered
lead-encased
lead-filled
lead-free gas
lead-gray
lead-hardening
lead-headed
lead-in
lead-in wire
lead-lapped
lead-lead
lead-lined
lead-melting
lead-off
lead-pipe cinch
lead-pulverizing
lead-ruled
lead-sheathed
lead-smelting
lead-tempering
lead-up
leaded bronze
leaded glass
leaded flycatcher
leaden-blue
leaden-colored
leaden-eyed
leaden-footed
leaden-headed
leaden-heeled
leaden-hued
leaden-natured
leaden-paced
leaden-skulled
leaden-soled
leaden-souled
leaden-spirited
leaden-thoughted
leaden-weighted
leaden-willed
leaden-winged
leaden-witted
leader block
leader cable
leader head
leader of fashion
leader of men
leader of the opposition
leader pipe
leader writer
leading aircraftman
leading article
leading bar
leading block
leading card
leading coefficient
leading edge
leading her mother
leading idea
leading lady
leading light
leading man
leading mark
leading note
leading question
leading reins
leading strings
leading to
leading tone
leading wheel
leading wind
leading wire
leading woman
leadpipe cinch
leaf beet
leaf beetle
leaf bite
leaf blade
leaf blender
leaf blight
leaf blotch
leaf bud
leaf bug
leaf coral
leaf curl
leaf-shaded
leaf-shaped
leaf-sheltered
leaf-strewn
leafcutter ant
leafcutter bee
leafy-stemmed
league together
league with
leaguer lass
leak away
leak in
leak out
leakage coefficient
leakage conductance
leakage conductor
leakage flux
leaking purse
leaky wave-guide antenna
lean and hungry look
lean as a rake
lean limbed
lean on
lean on a broken reed
lean on it
lean over
lean over backward
lean over backwards
lean toward
lean towards
lean upon
lean-cheeked
lean-eared
lean-face
lean-faced
lean-fleshed
lean-headed
lean-horned
lean-jawed
lean-limbed
lean-looking
lean-minded
lean-necked
lean-ribbed
lean-souled
lean-to
lean-to roof
lean-to tent
lean-tos
lean-witted
leaning thread
leaning toward
leaning tower
leap before you look
leap day
leap in the dark
leap into the breach
leap like a startled gazelle
leap over
leap over the wall
leap to the eye
leap up
leap year
leap-frog
leaping head
leaping spider
leaping weir
leap board
learn a lesson
learn about
learn all about
learn by doing
learn by experience
learn by heart
learn by rote
learn from
learn the ins and outs
learn the ropes
learn to live in your own skin
learn verbatim
learn word for word
learned clerk
learned man
learned profession
learner's permit
learning by heart
lease and release
lease out
lease rod
lease system
lease-back
lease-lend
lease-pardle
lease-purchase
leasehold insurance
leasehold mortgage
leave go
leave half-done
leave holding the bag
leave home
leave in
leave in the dark
leave in the lurch
leave it to one
leave it to you
leave looking
leave loose ends
leave no avenue unexplored
leave no chance
leave no escape
leave no loose ends
leave no option
leave no room for error
leave no stone unturned
leave no trace
leave no void
leave not a rack behind
leave nothing hanging
leave nothing to chance
leave nothing to say
leave nothing undone
leave of absence
leave off
leave out
leave out in the cold
leave out nothing
leave out of account
leave out of your calculation
leave over
leave remaining
leave standing
leave taking
leave the atmosphere
leave the beaten path
leave the country
leave the door open
leave the earth behind
leave the ground
leave the nest
leave the scene
leave the stage
leave the straight and narrow
leave the way open
leave things as they are
leave to chance
leave to luck
leave to your own devices
leave to yourself
leave unavenged
leave undone
leave unsatisfied
leave well enough alone
leave word
leave you cold
leave you to gather
leave your card
leave your mark
leave yourself wide open
leave-taking
leaving aside
leaving life
leaving much to chance
leaving no room for error
leaving no stone unturned
leaving out
leaving out nothing
leaving the earth behind
leaving the ground
lebbek tree
lechosos opal
lecture hall
lecture room
lecture-demonstration
led astray
led by the nose
led captain
led farm
ledge stone
ledged door
ledgement table
ledger bait
ledger bark
ledger beam
ledger blade
ledger board
ledger line
ledger paper
ledger plate
ledger strip
ledger tackle
ledger-book
ledum camphor
lee anchor
lee gauge
lee helm
lee sheet
lee shore
lee side
lee tack
lee tide
lee wave
lee wheel
lee wheelsman
lee's birthday
lee-board
lee-bow
lee-way
leech line
leech rope
leech worm
leech-book
leek green
leek-green
leer at
leering look
leeward tide
left a mile behind
left bank
left bower
left field
left fielder
left five degrees rudder
left full rudder
left half rudder
left hand
left handsomely
left heart
left of center
left out
left out in the cold
left pedro
left rudder
left side
left stage
left standard rudder
left ten degrees rudder
left undone
left wing
left winger
left-bank
left-brained
left-eyed
left-eyed flounder
left-eyedness
left-foot
left-footed
left-footedness
left-footer
left-hand
left-hand buoy
left-hand dagger
left-hand engine
left-hand side
left-handed
left-handed compliment
left-handed marriage
left-handedly
left-handedness
left-hander
left-handiness
left-laid
left-lay
left-legged
left-leggedness
left-luggage office
left-off
left-over
left-sided
left-wing
left-wing extremism
left-wing extremist
left-winger
left-wingish
left-wingism
lefteye flounder
leg armor
leg art
leg bail
leg band
leg before
leg before wicket
leg boot
leg break
leg bye
leg drop
leg hit
leg iron
leg it
leg man
leg of lamb
leg of mutton
leg show
leg stump
leg to stand on
leg trap
leg up
leg viol
leg-bail
leg-break
leg-breaker
leg-harness
leg-iron
leg-o'-mutton
leg-of-mutton
leg-of-mutton sail
leg-of-mutton spanker
leg-pull
leg-puller
leg-weary
legacy duty
legal action
legal adviser
legal age
legal agreement
legal aid
legal aid association
legal aid society
legal argument
legal assessor
legal authority
legal bucketing
legal cap
legal case
legal chemistry
legal claim
legal contract
legal counsellor
legal counselor
legal decision
legal document
legal estate
legal ethics
legal evidence
legal expert
legal fiction
legal flaw
legislative chamber
legislative clause
legislative council
legislative immunity
legislative investigation
legislative lobby
legislative motion
legislative procedure
legislative veto
legitimate drama
legitimate portion
legitimate stage
legitimate succession
legitimate theater
lego-literary
lei day
leio-
leip-
leisure class
leisure suit
leisurely gait
lekai salmon
lem-
lemming mouse
lemon balm
lemon cheese
lemon chrome
lemon cucumber
lemon day lily
lemon drop
lemon geranium
lemon grass
lemon kali
lemon lily
lemon mint
lemon oil
lemon scurvy grass
lemon sole
lemon squash
lemon squeezer
lemon verbena
lemon vine
lemon yellow
lemon-color
lemon-colored
lemon-faced
lemon-flavored
lemon-grass oil
lemon-green
lemon-scented
lemon-scented gum
lemon-tinted
lemon-yellow
lemonade sumac
lend a color to
lend a hand
lend a helping hand
lend a willing ear
lend an ear
lend an ear to
lend one aid
lend substance to
lend support
lend wings to
lend your backing to
lend your countenance to
lend your favor to
lend your name to
lend your offices
lend your support to
lend yourself to
lend-lease
lend-leased
lend-leasing
lending at interest
lending institution
lending library
length and breadth
length between perpendiculars
length of time
length over all
lengthen out
leni-lenape
leno brocade
leno weave
lens cell
lens cover
lens hood
lens maker
lens making
lens opening
lens screen
lens turret
lens-mount
lens-shaped
lent lily
lenticular cloud
lenticular nucleus
lenticular process
lenticular truss
lenticulo-optic
lentil cut
lentil tare
lentil weevil
leonine partnership
leonine rhyme
leontiasis ossea
leopard cat
leopard flower
leopard frog
leopard lily
leopard lionne
leopard lizard
leopard moth
leopard seal
leopard's bane
leopard's spots
leopard's-bane
leopard-man
leper house
lepid-
lepidio-
lepra arabum
lepto-
lepto-form
lepto-type
lepton number
lerp insects
lese majesty
lese-majesty
less advanced
less and less
less semitone
less than
less than no time
lesser Bairam
lesser Ionic
lesser anteater
lesser bear
lesser celandine
lesser dog
lesser doxology
lesser litany
lesser multangular bone
lesser nobility
lesser omentum
lesser panda
lesser star grass
lesser weever
lesser wintergreen
lesser yellowlegs
let ’em have it
let a fart
let alone
let be
let blood
let bygones be bygones
let dangle
let daylight in
let down
let down easy
let down your defenses
let down your guard
let down your side
let drive
let drive at
let drop
let fall
let fall into desuetude
let fall into disuse
let fall the shadow of mine eyes
let flow through your fingers
let fly
let fly at
let get around
let get by
let get past
let go
let go by
let go by default
let go free
let go the anchor
let go with
let go your own way
let have
let have it
let her out
let in
let in on
let in on the know
let in to
let into
let into the secret
let it all hang out
let it be understood
let it go
let it have its way
let it pass
let it stand
let it take its course
let know
let loose
let loose of
let money be no object
let next to
let off
let off a shot at
let off steam
let on
let on like
let or hindrance
let out
let out on bail
let pass
let ride
let rip
let sleeping dogs lie
let slide
let slip
let slip the dogs of war
let slip through your fingers
let someone have it
let take its course
let the air out of
let the cat out of the bag
let the devil take the hindmost
let the matter stand
let the mind lie fallow
let the portcullis down
let the wound heal
let things take their course
let tomorrow take care of itself
let up
let up on
let well enough alone
let wind
let you go at will
let you have his head
let you have your own way
let you off easy
let you off this time
let your angry passions rise
let your attention wander
let your breath out
let your hair down
let your imagination riot
let your imagination run riot
let your imagination run wild
let your light shine
let your mind wander
let your thoughts wander
let your voice be heard
let your wits go bird's nesting
let yourself go
let yourself in for
let-alone
let-alone doctrine
let-alone policy
let-alone principle
let-off
let-out
let-pass
let-up
lethal blow
lethal chamber
lethal dose
lethal factor
lethal gene
lethargic encephalitis
lethargic hypnosis
letter avocatory
letter bag
letter board
letter bomb
letter book
letter box
letter card
letter carrier
letter carver
letter caster
letter cutter
letter drop
letter engraver
letter file
letter founding
letter foundry
letter from Uncle Sam
letter hand
letter learning
letter lichen
letter messenger
letter missive
letter name
letter of advice
letter of credence
letter of credit
letter of delegation
letter of introduction
letter of marque
letter of marque and reprisal
letter paper
letter plant
letter porter
letter post
letter press
letter scales
letter sheet
letter sorter
letter stamper
letter stock
letter telegram
letter weigher
letter writer
letter writing
letter-bound
letter-card
letter-copying
letter-duplicating
letter-erasing
letter-fed
letter-folding
letter-high
letter-learned
letter-opener
letter-perfect
letter-press
letter-winged
lettering pen
letterpress photoengraving
letters credential
letters dimissory
letters missive
letters of administration
letters of credence
letters of marque
letters of marque and reprisal
letters of request
letters of the alphabet
letters overt
letters pacific
letters patent
letters regatory
letters testamentary
letterwinged kite
letting down
letting go
letting out
lettre de cachet
lettre de change
lettre de creance
lettres de cachet
lettres de change
lettuce bird
lettuce green
lettuce mildew
lettuce opium
lettuce saxifrage
leuc-
leucite basalt
leucite-basanite
leucite-tephrite
leuco base
leuco-
leucoturic acid
leukemic reticuloendotheliosis
leuko-
leukocyt-
leuna saltpeter
lev-
leva facias
levée en masse
level as a plain
level at
level crossing
level curve
level curves
level head
level instrument
level land
level landing
level line
level of stress
level off
level pegging
lex generalis
lex loci
lex mercatoria
lex mercatorum
lex non scripta
lex scripta
lex situs
lex talionis
lex terrae
lexical form
lexical insertion
lexical item
lexical meaning
lexigraphic character
lexigraphic symbol
ley line
ley pewter
leyden jar
leze majesty
liability insurance
liability limit
liability to error
liable to
liable to error
liaise with
liaison plane
liar of the first magnitude
liber cell
liberal arts
liberal education
liberal studies
liberal-arts college
liberal-minded
liberal-mindedness
liberty abused
liberty boat
liberty bodice
liberty cap
liberty green
liberty hall
liberty horse
liberty in tranquillity
liberty of speech
liberty of the press
liberty pole
liberty ship
liberty tea
liberty tree
lick the dust
lick the feet of
lick the plate
lick the platter
lick to a frazzle
lick your ass
lick your boots
lick your chops
lick your shoes
lick your wounds
lick-dish
lick-finger
lick-foot
lick-ladle
lick-platter
lick-spigot
lick-spittle
licker-in
lickety-brindle
lickety-cut
lickety-split
licking disease
licking stone
licorice fern
licorice powder
licorice root
licorice stick
licorice sugar
licorice vetch
licorice vine
licorice weed
lid cell
lid slit
lidless eye
lidless vigil
lie a course
lie across
lie ahead
lie ahull
lie along
lie along the shore
lie around
lie at the heart
lie at the root of
lie at your door
lie athwart
lie back on your record
lie beam on to the seas
lie beneath
lie by
lie close
lie close to the wind
lie detector
lie doggo
lie dormant
lie down
lie down and roll over for
lie down on the job
lie fallow
lie flat
lie flatly
lie hard upon
lie heavy
lie heavy upon
lie hid
lie hidden
lie idle
lie in
lie in Abraham's bosom
lie in ambush
lie in state
lie in the grave
lie in wait
lie in wait for
lie in your course
lie in your power
lie in your throat
lie like a trooper
lie limply
lie low
lie near the wind
lie of the land
lie off
lie off the land
lie on
lie on a level
lie on a level with
lie on the shelf
lie on the surface
lie on your back
lie on your face
lie on your head
lie opposite
lie out of
lie over
lie prone
lie prostrate
lie snug
lie still
lie supine
lie through your teeth
lie to
lie under
lie under a necessity
lie under an obligation
lie under the surface
lie up
lie upon
lie upon your oars
lie with
lie-abed
lie-by
lie-bys
lie-down
lied form
lieder singer
liege lord
liege man
liege poustie
liege subject
liege woman
liege-manship
lieno-
lieu commun
lieue marine
lieutenant colonel
lieutenant commander
lieutenant general
lieutenant governor
lieutenant junior grade
lieutenant-colonelcy
lieutenant-general
lieutenant-governorship
life after death
life and letters
life annuity
life arrow
life assurance
life belt
life beyond the grave
life breath
life buoy
life car
life cast
life-abhoring
life-and-death
life-and-death struggle
life-bearing
life-beaten
life-begetting
life-bereft
life-blood
life-breathing
life-bringing
life-consuming
life-creating
life-crowded
life-deserted
life-destroying
life-devouring
life-diffusing
life-ending
life-enriching
life-force
life-giver
life-giving
life-guard
life-guardsman
life-hugging
life-infatuate
life-infusing
life-invigorating
life-lengthened
life-like
life-lorn
life-lost
life-maintaining
life-or-death
life-or-death struggle
life-outfetching
life-penetrated
life-poisoning
life-preserver
life-preserving
life-prolonging
life-quelling
life-rendering
life-renewing
life-restoring
life-sapping
life-saver
life-serving
life-size
life-sized
life-spent
life-style
life-support system
life-sustaining
life-sweet
life-teeming
life-thirsting
life-tide
life-timer
life-weariness
life-weary
life-while
life-worthy
life-yielding
lifeless matter
lifeless matter found in nature
lifelike image
liferent escheat
lifesaving boat
lifesaving service
lift a finger
lift a hand
lift a hand against
lift bolt
lift bridge
lift component
lift direction
lift force
lift gate
lift hammer
lift off
lift pump
lift ram
lift ratio
lift span
lift temporarily
lift tenter
lift the curtain on
lift the hat
lift the veil
lift truck
lift up
lift up the eyes
lift up the heart
lift up the voice
lift valve
lift van
lift wall
lift wire
lift your hand against
lift your voice
lift-drag ratio
lift-off
lift-off hinge
lift-slab
lifter rod
lifting body
lifting bolt
lifting bridge
lifting day
lifting eye
lifting foot
lifting head
lifting irons
lifting jack
lifting plan
lifting plate
lifting pump
lifting sail
lig-by
ligamentum nuchae
light adaptation
light air
light and shade
light and shade surface
light artillery
light as a feather
light as air
light as any wind that blows
light as day
light as gossamer
light baffle
light battery
light beer
light bob
light bomber
light box
light bread
light breeze
light bridge
light bulb
light colonel
light comedian
light comedy
light cream
light cruiser
light curve
light displacement
light draft
light dragoon
light engine
light equation
light face
light filter
light fingers
light fixture
light flyweight
light globe
light gunmetal
light harmony
light harness
light headed
light heart
light heavyweight
light holder
light holders
light horse
light horseman
light housekeeping
light infantryman
light into
light line
light load line
light lock
light lunch
light machine gun
light magnesia
light meal
light measure
light meat
light metals
light meter
light middleweight
light mineral
light mineral oil
light music
light of day
light of heel
light of love
light of your eye
light of your life
light oil
light on
light opera
light out
light pen
light plot
light purse
light quantum
light railroad
light reaction
light red
light repast
light shield
light show
light sleep
light socket
light source
light texture
light the fuse
light the way
light touch
light tower
light transport
light trap
light treatment
light unit
light up
light upon
light valve
light verse
light weight
light welterweight
light whiskey
light wind
light wine
light year
light-adapted
light-armed
light-beam telephone
light-bearded
light-bellied
light-blue
light-bluish
light-bob
light-bodied
light-borne
light-bounding
light-brained
light-built
light-causing
light-century
light-charged
light-cheap
light-clad
light-colored
light-complexioned
light-creating
light-diffusing
light-disposed
light-drab
light-draft
light-embroidered
light-faced
light-fast
light-fingered
light-fingered gentry
light-fingeredness
light-foot
light-footed
light-footedly
light-footedness
light-gilded
light-giving
light-grasp
light-grasping
light-gray
light-green
light-haired
light-handed
light-handedly
light-handedness
light-harnessed
light-hating
light-headed
light-headedly
light-headedness
light-hearted
light-heartedly
light-heartenedness
light-heeled
light-horseman
light-horsemen
light-hued
light-intensity control
light-intensity indicator
light-leaved
light-legged
light-limbed
light-loaded
light-locked
light-marching
light-minded
light-mindedly
light-mindedness
light-o'-love
light-o'love
light-of-love
light-pervious
light-poised
light-producing
light-proof
light-reactive
light-refracting
light-refractive
light-robed
light-rooted
light-rootedness
light-scattering
light-sensitive
light-skinned
light-skirts
light-spirited
light-spreading
light-struck
light-thoughted
light-timbered
light-tongued
light-treaded
light-veined
light-waved
light-weight
light-winged
light-witted
light-year
light-years
light-yellow
lighten one of
lightening hole
lighter discharger
lighter staff
lighter than air
lighter than vanity
lighter-than-air
lighter-than-air aviation
lighter-than-air craft
lighthouse clock
lighthouse coffeepot
lighthouse keeper
lighthouse tube
lighting off
lighting up
lighting-up time
lightish-blue
lightly touching
lightning arrester
lightning attack
lightning beetle
lightning bug
lightning conductor
lightning discharge
lightning express
lightning file
lightning gods
lightning pains
lightning protector
lightning rod
lightning saw
lightning speed
lightning stone
lightning switch
lightning tooth
lightning tube
lightning war
lightning-like
lights out
lights-out
lign-
lign-aloes
lignaloe oil
ligni-
ligninsulphonic acid
lignite wax
ligno-
lignosulphonic acid
lignum aloes
lignum vitae
ligulate-flowered
liguli-
lke Niobe
like Swiss cheese
like a bat out of hell
like a blue streak
like a bolt from the blue
like a book
like a bulldog
like a coward
like a drowned rat
like a fish out of water
like a flash
like a furnace
like a horse in a mill
like a house afire
like a lamb
like a leech
like a lord
like a man
like a prune
like a scared rabbit
like a shot
like a shot out of hell
like a soldier
like a streak
like a streak of lightning
like a thief in the night
like a thunderbolt
like a thunderclap
like a trooper
like all creation
like all forty
like all get-out
like an oven
like anything
like as not
like best
like better
like blazes
like buckets in a well
like cats and dogs
like clockwork
like crazy
like dough
like enough
like figures
like for like
like fun
like fury
like grains of sand
like greased lightning
like hell I will
like it is
like lightning
like mad
like new
like no other
like nothing
like one possessed
like parchment
like putty
like putty in your hands
like sardines in a can
like shooting fish in a barrel
like sin
like sixty
like so
like sweet bells jangled
like taking candy from a baby
like that
like the rock of Gibraltar
like this
like to
like two drops of water
like water
like wax
like wildfire
like---but oh how different
like-eyed
like-fashioned
like-featured
like-looking
like-made
like-minded
like-mindedly
like-mindedness
like-natured
like-persuaded
like-sex
like-shaped
like-sized
liked to
likely lad
likely story
likely to
liken to
likes of
lilac gray
lilac mildew
lilac-banded
lilac-blue
lilac-colored
lilac-flowered
lilac-headed
lilac-mauve
lilac-pink
lilac-purple
lilac-tinted
lilac-violet
lilies of the valley
lilly-low
lilly-pilly
lily bell
lily bellflower
lily bind
lily family
lily flower
lily grass
lily green
lily iron
lily leek
lily liver
lily of the valley
lily pad
lily palm
lily pink
lily thorn
lily-cheeked
lily-clear
lily-cradled
lily-crowned
lily-fingered
lily-flower
lily-liver
lily-livered
lily-liveredness
lily-paved
lily-pot
lily-robed
lily-shaped
lily-shining
lily-tongued
lily-trotter
lily-white
lily-whiteness
lily-wristed
lima bean
limb-meal
limber as a dishrag
limber board
limber chest
limber hole
limber pine
limber rope
limber up
limber-neck
limber-twig pine
limbic lobe
limbic system
limbo patrum
limbs of Satan
lime anthracnose
lime boil
lime buffer
lime burner
lime epidote
lime feldspar
lime glass
lime grass
lime green
lime harmotome
lime hydrate
lime juice
lime liniment
lime mesotype
lime nitrogen
lime pit
lime plant
lime soap
lime sulfur
lime tree
lime twig
lime uranite
lime-ash
lime-boiled
lime-burner
lime-juicer
lime-kiln
lime-pit
lime-rod
lime-soda mesotype
lime-sulphur
lime-twig
lime-water
lime-white
limette oil
limit condition
limit control
limit gauge
limit man
limit of patience
limit of proportionality
limit of resolution
limit of vision
limit point
limit switch
limit system
limit yourself
limit, the
limit-setting
limited company
limited divorce
limited edition
limited fee simple
limited liability
limited monarchy
limited negative
limited nuclear weapons
limited number
limited owner
limited partner
limited partnership
limited payment insurance
limited policy
limited veto
limited war
limited-liability company
limiting adjective
limiting condition
limiting factor
limiting point
limousine-landaulet
limp as a dishrag
limp-cover book
limpet mine
limping meters
limping standard
limu-eleele
limu-kohu
lin ft
lin tree
lin-lan-lone
linalyl acetate
linch-pin
linden borer
linden family
linden green
linden inchworm
linden leaf beetle
linden yellow
lindy hop
line ahead
line block
line breaker
line breeding
line buck
line caster
line chief
line co-ordinates
line copy
line cut
line displacement
line drawing
line drive
line drop
line engraver
line engraving
line equation
line gale
line gauge
line geometry
line hunter
line integral
line letter
line loss
line microphone
line of action
line of apsides
line of battle
line of business
line of circumvallation
line of credit
line of defense
line of demarcation
line of departure
line of descent
line of direction
line of duty
line of endeavor
line of fire
line of flight
line of force
line of goods
line of induction
line of march
line of position
line of scrimmage
line of sight
line of sighting
line of site
line of succession
line of thrust
line of type
line of vision
line of work
line officer
line out
line printer
line radio
line relay
line riding
line space
line spectrum
line squall
line storm
line switch
line symmetry
line test
line up
line up with
line vector
line voltage
line your pockets
line-bred
line-bred
line-bucker
line-casting
line- engraving
line-firing
line-haul
line-hunting
line-of-battle ship
line-out
line-roll conveyer
line-sequential
line-sequential color television
line-throwing rocket
line-up
lineal measure
lineal promotion
lineal rank
lineal relation
linear accelerator
linear algebra
linear calibrations
linear chromatism
linear chromatist
linear coefficient
linear combination
linear complex
linear content
linear dependence
linear differential equation
linear differential form
linear equation
linear fractional transformation
linear function
linear functional
linear graph
linear independence
linear lead
linear manifold
linear measure
linear measures
linear micrometer
linear motor
linear operation
linear operator
linear perspective
linear polarization
linear problem
linear programming
linear projection
linear segment
linear set
linear space
linear substitution
linear system
linear tactics
linear transformation
linear-acute
linear-attenuate
linear-awled
linear-elliptical
linear-elongate
linear-ensate
linear-filiform
linear-lanceolate
linear-leaved
linear-ligulate
linear-oblong
linear-obovate
linear-setaceous
linear-shaped
linear-subulate
linearly ordered set
lined blade
lined gold
lined up
linen closet
linen draper
linen draperess
linen drapery
linen floss
linen fold
linen machine
linen panel
linen paper
linen pattern
linen wedding
linen-armourer
lines drawing
lines plan
ling cod
ling pink
linga sharira
linger behind
linger on
lingoa wood
lingu-
lingua crioula
lingua franca
lingua francas
lingua geral
lingua rustica
lingua vulgaris
linguae francae
lingual artery
lingual bone
lingual delirium
lingual gyrus
lingual hemorrhoid
lingual nerve
lingual protrusion lisp
lingual ribbon
lingual titubation
linguistic act
linguistic ambience
linguistic analysis
linguistic area
linguistic atlas
linguistic behavior
linguistic borrowing
linguistic community
linguistic finesse
linguistic form
linguistic geographer
linguistic geography
linguistic intercourse
linguistic island
linguistic scholar
linguistic science
linguistic scientist
linguistic stock
linguistic structure
linguistic tact
linguo-
lining cloth
lining sight
lining stitcher
lining-out
lining-up
link block
link motion
link polygon
link up
link verb
link with
link-boy
link-up
linkage formula
linkage group
linkage groups
linked rhyme
linked to
linked verse
linking r
linking verb
linnet hole
lino tile
lino-typist
linoleic acid
linolenic acid
linoleum block
linoleum knife
linoleum-block print
linoleum-block printing
linolic acid
linotype operator
linseed cake
linseed meal
linseed oil
linseed tea
linsey-woolsey
linsey-woolseys
lint bells
lint bow
lint index
lint-white
lion ant
lion dollar
lion dragon
lion leopard
lion lizard
lion monkey
lion poisson
lion tamer
lion's share
lion-bold
lion-color
lion-drunk
lion-footed
lion-guarded
lion-haunted
lion-headed
lion-heart
lion-hearted
lion-hided
lion-hued
lion-like
lion-maned
lion-mettled
lion-tailed
lion-tailed macaque
lion-tailed monkey
lion-tawny
lion-thoughted
lion-toothed
lip bit
lip comfort
lip comforter
lip devotion
lip fern
lip homage
lip labor
lip loyalty
lip microphone
lip molding
lip plug
lip praise
lip reader
lip reading
lip reverence
lip rouge
lip server
lip service
lip stop
lip strike
lip wisdom
lip worship
lip worshiper
lip-
lip-back
lip-bearded
lip-blushing
lip-born
lip-deep
lip-good
lip-labour
lip-learned
lip-licking
lip-open
lip-read
lip-reading
lip-red
lip-round
lip-rounding
lip-smacking
lip-spreading
lip-teeth
lipid histiocytosis
lipo-
lipoid pneumonia
liquefied petroleum gas
liqueur glass
liquid absolute
liquid air
liquid apiol
liquid assets
liquid assets ratio
liquid coal
liquid compass
liquid conduction
liquid crystal
liquid crystal display
liquid extract
liquid fire
liquid fuel
liquid glass
liquid gold
liquid helium
liquid measure
liquid nitrogen
liquid oxygen
liquid paraffin
liquid petrolatum
liquid pint
liquid quart
liquid soap
liquid storax
liquid-fuel rocket
liquid-level control
liquid-level indicator
liquid-level sensor
liquidating dividend
liquidity preference
liquidity ratio
liquidus curve
liquor dealer
liquor maker
liquor merchant
liquor store
liquor store owner
liquor tax
liquor up
liquor-drinking
liquor-loving
liquorice allsorts
lira da braccio
liras da braccio
lire da braccio
lis pendens
lisle hose
lisle thread
lisp in numbers
list of
list of agenda
list pot
list price
list system
listed building
listed securities
listen at
listen in
listen to
listen to reason
listen with both ears
listener-in
listening cam
listening in
listening post
lister cultivator
lister drill
lister planter
lister plough
lister plow
listing machine
lit de justice
lit to the gills
lit up
litany stool
litchi nut
literacy test
literae humaniores
literae scriptae
literal error
literal meaning
literal translation
literal-minded
literalists of the imagination
literary agent
literary artefact
literary artifact
literary artisan
literary artist
literary artistry
literary composition
literary craftsman
literary critic
literary criticism
literary elegance
literary flair
literary hack
literary inelegance
literary journeyman
literary language
literary man
literary piracy
literary pirate
literary power
literary production
literary remains
literary style
literary talent
literature of the field
lith-
lithia emerald
lithia mica
lithia water
lithic acid
lithium aluminum hydride
lithium chloride
lithium fluoride
lithium oxide
lithium stearate
litho purple
litho-
lithographic stone
litis contestatio
litmus milk
litmus paper
litmus test
litter lout
litter-bearer
litterae humaniores
little Joe
little Mary
little Miss Fixit
little angel
little auk
little bear
little bit
little bite
little black ant
little blue heron
little bluestem
little boys' room
little brain
little brother
little brown jug
little bugger
little businessman
little by little
little casino
little chance
little cherub
little darling
little devil
little doll
little egret
little end
little expectation
little fellow
little finger
little game
little girls' room
little good
little grebe
little green man
little gull
little guy
little guys
little hours
little house
little innocent
little kids
little known
little leaf
little magazine
little man
little master
little millet
little missy
little monkey
little office
little one
little ones
little opportunity
little owl
little people
little people, the
little person
little pitcher with big ears
little problem
little quaking grass
little rascal
little recall
little red schoolhouse
little retentivity
little shaver
little slam
little smack
little spotted cat
little squirt
little summer of St
little tad
little talk
little terror
little theater
little theatre
little thing
little toe
little tot
little voice
little ways
little while
little white lie
little woman
little, a
little-able
little-bitsy
little-bitty
little-boukit
little-branched
little-by-little
little-ease
little-footed
little-girlish
little-girlishness
little-go
little-haired
little-headed
little-known
little-loved
little-minded
little-mindedness
little-prized
little-read
little-regarded
little-statured
little-trained
little-traveled
little-used
little-worth
littleneck clam
littoral zone
liturgical east
liturgical garments
liturgical music
liturgical north
liturgical south
liturgical west
litiz wire
live a cat-and-dog life
live a life of ease
live again
live alone
live and breathe
live and learn
live and let live
live apart
live as man and wife
live at
live beyond your means
live by your wits
live center
live centre
live circuit
live coal
live down
live fast
live for the day
live forever
live from hand to mouth
live frugally
live hard
live high
live high off the hog
live high on the hog
live in
live in a glass house
live in clover
live in hopes
live in peace
live in retirement
live in your memory
live it up
live like a pig
live like cat and dog
live like the grasshopper
live load
live matter
live oak
live off of
live off the fat of the land
live on
live on the fat of the land
live on velvet
live one
live or die
live outside the law
live parking
live peaceably with all men
live plainly
live show
live simply
live spindle
live steam
live stock
live temperately
live the life of Riley
live through
live through it
live to a ripe old age
live to eat
live to fight another day
live together
live trap
live up
live up to
live upon
live upon nothing
live well
live wire
live with
live with it
live within your income
live-bearer
live-bearing
live-box
live-ever
live-forever
live-front switchboard
live-in maid
live-in-idleness
live-oak
live-out maid
live-sawed
live-virus vaccine
lived-in
lively imagination
lively interest
lively market
lively pace
liven vivificate
liver and lights
liver and onions
liver balsam
load waterline
load with care
load with ornament
load with reproaches
load-indicating resistor
load-line disk
load-line mark
load-water-line
loaded cane
loaded dice
loaded for
loaded for bear
loaded moment
loaded with doom
loaded with shame
loaded with significance
loading coil
loading donkey
loading down
loading inductance
loaf of bread
loaf sugar
loaf-sugar
loam board
loan agent
loan collection
loan farm
loan form
loan god
loan office
loan officer
loan shark
loan translation
loan value
loan word
loan-office
loan-shark
loan-sharking
loaned stock
loaves and fishes
lob's pound
lob-
lob-worm
lobar pneumonia
lobato-
lobato-digitate
lobato-divided
lobato-foliaceous
local government
local horizon
local law
local maximum
local minimum
local office
local option
local optioner
local optionism
local optionist
local oscillator
local oscillator signal
local road
local stamp
local tax
local time
local union
local wind
local yokel
local-option law
local-oscillator tube
locally Euclidean space
locally compact space
locally finite set
loci classici
loci sigilli
lock bay
lock forward
lock gate
lock horns
lock hospital
lock in
lock nut
lock off
lock on
lock on to
lock out
lock plate
lock rail
lock saw
lock seam
lock seat
lock step
lock stitch
lock the door
lock turtle
lock up
lock washer
lock, stock, and barrel
lock-a-daisy
lock-grained
lock-hair fern
lock-jaw
lock-out
lock-up
locked in
locked jaw
locked up
locked-up page
locked-wire rope
locker box
locker paper
locker plant
locker room
locking face
locking gauntlet
locking in
locking on
locking pallet
locking piece
locking plate
locking ring
locking signals
locking up
locking wheel
lockup safety valve
loco citato
loco disease
loco parentis
loco supra citato
loco vetch
loco-descriptive
loco-foco
locomotive boiler
locomotive engine
locomotor ataxia
locoprimo citato
loctal base
locum tenens
locum tenentes
locum-tenency
locus classicus
locus communis
locus in quo
locus sigilli
locus standi
locust bean
locust beetle
locust bird
locust eater
locust lobster
locust mite
locust moth
locust plant
locust pod
locust sawfly
locust shrimp
locust tree
locust-kernel gum
locust-tree
lode claim
loden coat
loden green
lodge a complaint
lodge a plaint
lodge in the mind
lodged in your mind
lodgpole pine
lodger bee
lodger franchise
lodging house
lodging knee
lodging place
lodging turn
lodh bark
loft-dried
lofting iron
lofty affectations
lofty airs
lofty ambition
lofty mountains
lofty peak
lofty-browed
lofty-headed
lofty-humored
lofty-looking
lofty-minded
lofty-notioned
lofty-peaked
lofty-plumed
lofty-roofed
lofty-sounding
log bunk
log cabin
log canoe
log carriage
log chip
log deck
log dog
log drive
log driver
log driving
log fixer
log frame
log glass
log jack
log jam
log kicker
log line
log loader
log measure
log peeler
log perch
log reel
log rule
log run
log runner
log scale
log scaler
log ship
log slate
log tooth
log turner
log-
log-book
log-log
log-roll
log-roller
log-rolling
logan apple
logan stone
logan-stone
loganberry wine
logarithmic curve
logarithmic function
loggan stone
loggerhead shrike
loggerhead sponge
loggerhead turtle
logging car
logging locomotive
logging sled
long jenny
long johns
long jump
long life
long life to
long mane
long mark
long market
long measure
long metre
long mordent
long moss
long odds
long on looks
long pants
long pennant
long pig
long play
long pooper
long primer
long pull
long purse
long range
long range aid to navigation
long rifle
long road
long robe
long rod
long rope
long run
long shanks
long shot
long side
long sight
long since
long splice
long standing
long step
long stock
long sufferance
long suit
long sweetening
long sword
long tether
long time
long tin
long to
long tom
long ton
long tongue
long topgallant mast
long trail
long trousers
long underwear
long vacation
long view
long vowel
long wave
long way
long while
long word
long-
long-accustomed
long-acre
long-agitated
long-ago
long-and-short work
long-arm
long-arm balance
long-armed
long-awaited
long-awned
long-axed
long-backed
long-barreled
long-beaked
long-bearded
long-bellied
long-berried
long-billed
long-boat
long-bodied
long-borne
long-bow
long-bracted
long-branched
long-breathed
long-buried
long-celled
long-chained
long-clawed
long-coated
long-coats
long-contended
long-continued
long-continuing
long-coupled
long-crested
long-cycle
long-cycled
long-dated
long-day
long-dead
long-delayed
long-descending
long-deserted
long-desired
long-destroying
long-distance
long-distance call
long-docked
long-docked
long-drawn
long-drawn-out
long-eared
long-eared owl
long-enduring
long-established
long-exerted
long-expected
long-experienced
long-extended
long-eyed sharp
long-faced
long-faded
long-favored
long-fed
long-fiber
long-fibered
long-fin tunny
long-fingered
long-finned
long-flaked coil
long-fleeced
long-flowered
long-footed
long-forgotten
long-fronted
long-fruited
long-gown
long-gowned
long-grass
long-grassed
long-hair
long-haired
long-haired griffon
long-hand
long-handed
long-handled
long-head
long-headed
long-headedness
long-heeled
long-hid
long-horned
long-horned beetle
long-horned grasshopper
long-jawed
long-jointed
long-journey
long-kept
long-lacked
long-lasting
long-lastingness
long-leaved
long-leaved bent
long-leaved pine
long-leg
long-legged
long-limbed
long-line
long-lined
long-liner
long-lining
long-lived
long-livedness
long-living
long-locked
long-lost
long-lunged
long-memoried
long-nebed
long-necked
long-nosed
long-off
long-on
long-parted
long-past
long-pasterned
long-pending
long-period variable
long-planned
long-playing
long-plumed
long-pod
long-podded
long-possessed
long-projected
long-protrated
long-quartered
long-range
long-range attack aircraft
long-range bomber
long-range forecasting
long-range heavy bomber
long-range medium bomber
long-range patrol bomber
long-range plan
long-range planning
long-range radar
long-range rocket
long-reaching
long-resounding
long-ribbed
long-ridged
long-robbed
long-roofed
long-rooted
long-saved
long-settled
long-shaded
long-shadowed
long-shafted
long-shanked
long-shaped
long-shore
long-shut
long-sighted
long-sightedness
long-skulled
long-sleeved
long-snouted
long-sought
long-span
long-spine
long-spined
long-spun
long-spurred
long-staffed
long-stalked
long-standing
long-staple
long-staple isinglass
long-stapled
long-stemmed
long-stocked
long-streaming
long-stretched
long-stroke
long-style
long-style
long-succeeding
long-sufferance
long-suffered
long-suffering
long-sufferingly
long-sundered
long-tail
long-tailed
long-tailed chat
long-tailed tit
long-term
long-term bond
long-term loan
long-term memory
long-termer
long-thinking
long-threatened
long-time
long-timed
long-toed
long-toed stint
long-tongue
long-tongued
long-toothed
long-traveled
long-visaged
long-waisted
long-wandered
long-wandering
long-wave
long-wedded
long-winded
long-windedly
long-windedness
long-winged
long-wire aerial
long-wire antenna
long-wished
long-withdrawing
long-withheld
long-wooled
long-worded
longcase clock
longed-for
longhair music
longi-
longicorn beetle
longing eye
longing for the past
longitude by account
longitude in arc
longitude in time
longitudinal axis
longitudinal coefficient
longitudinal framing
longitudinal magnification
longitudinal section
longitudinal stability
longitudinal wave
longleaf pine
longleaf yellow pine
longschat pine
longshore drift
longways dance
loo mask
look a fright
look a gift horse in the mouth
look a mess
look a sight
look about for
look about one
look after
look after your fences
look after your own interests
look aghast
look agog
look ahead
look alive
look all over
look all over hell
look another way
look around
look around for
look as if you had seen a ghost
look aside
look askance
look askance at
look askant
look asquint
look at
look at in the light of
look at it
look away
look back
look back on
look back upon things past
look bad
look beautiful
look before you leap
look beyond
look big
look black
look black as thunder
look black upon
look bleak
look blue
look closely at
look coldly upon
look cool upon
look daggers
look daggers at
look dark
look down
look down on
look down over
look down upon
look down your nose
look down your nose at
look everywhere
look fit to kill
look foolish
look for
look for a needle in a haystack
look for time
look for trouble
look forth
look forward to
look full in the face
look good
look green about the gills
look guilty
look here
look high and low
look in
look in on
look in the face
look in your eyes
look into
look into every hole and corner
look into the future
look kindly upon
look like
look like a million
look like hell
look like the devil
look lively
look on
look on the bright side
look on the dark side
look on with the evil eye
look out
look out for
look out for number one
look out upon
look over
look right through
look round
look serious
look sharp
look silly
look slippy
look something terrible
look straight in the eye
look straight in the eyes
look sullen
look sweet upon
look the other way
look threatening
look through
look to
look to be
look to your laurels
look toward
look up
look up and down
look up to
look upon
look upon as
look upstairs and downstairs
look with scorn upon
look with your own eyes
look you
look you in the eye
look you in the face
look you up
look-alike
look-alikes
look-down
look-in
look-over
look-see
look-through
look-up
looked-for
looker-on
lookers-on
looking ahead
looking back
looking fit to kill
looking for
looking forward to
looking glass
looking out the window
looking up
looking-glass
looking-glass bush
lookout man
loom joiner
loom large
loom of the land
loom oiler
loom tenter
loom turner
loom weaver
loom-state
 looming in the distance
 looming in the future
loony bin
loop aerial
loop antenna
loop back
loop in
loop knot
loop line
loop of Henle
loop stitch
loop the loop
loop winding
loop window
loop-hole
loop-the-loop
loophole frame
looping mill
looping the loop
loose bowels
loose change
loose construction
loose cover
loose end
loose ends
loose for sea
loose formation
loose memory
loose morals
loose order
loose purse strings
loose sentence
loose smut
loose thread
loose tongue
loose translation
loose woman
loose-barbed
loose-bodied
loose-coupled
loose-curled
loose-driving
loose-enrobed
loose-fibered
loose-fitting
loose-fleshed
loose-floating
loose-flowered
loose-flowing
loose-footed
loose-footed sail
loose-girdled
loose-gowned
loose-handed
loose-hanging
loose-hipped
loose-hung
loose-joint hinge
loose-jointed
loose-kneed
loose-leaf
loose-leaf notebook
loose-limbed
loose-lipped
loose-lived
loose-living
loose-locked
loose-lying
loose-mannered
loose-moraled
loose-necked
loose-packed
loose-panicled
loose-principled
loose-robbed
loose-skinned
loose-spiked
loose-thinking
loose-tongued
loose-topped
loose-wadded
loose-wived
loose-woven
loose-writ
loosen the purse strings
loosen up
looseness of the bowels
lop-ear
lop-eared
lop-sided
lopho-
loppered milk
lord and master
lord bird
lord chancellor
lord it over
lord lieutenant
lord mayor
lord of creation
lord of misrule
lord of the bedchamber
lord of the manor
lord paramount
lord spiritual
lord temporal
lord trier
lord's day
lord's prayer
lord's supper
lord's table
lord-in-waiting
lord-lieutenancy
lord-lieutenant
lords and ladies
lords of creation
lords temporal and spiritual
lords-and-ladies
lords-in-waiting
lorraine cross
lose altitude
lose blood
lose caste
lose color
lose countenance
lose courage
lose credit
lose currency
lose distinctness
lose face
lose flesh
lose ground
lose heart
lose heat
lose hope
lose momentum
lose no time
lose novelty
lose one
lose one's cookies
lose out
lose patience
lose power
lose resolution
lose self-control
lose sharpness
lose sight of
lose speed
lose strength
lose the chance
lose the day
lose the opportunity
lose the will to live
lose time
lose track of
lose weight
lose your good name
lose your grip
lose your head
lose your hearing
lose your heart
lose your heart to
lose your life
lose your nerve
lose your reason
lose your senses
lose your shirt
lose your sight
lose your temper
lose your tongue
lose your vision
lose your way
lose your wits
lose yourself in
lose-out
losh hide
losh leather
losing game
losing hazard
losing streak
losing your touch
loss leader
loss of contact with reality
loss of ground
loss of hearing
loss of honor
loss of innocence
loss of life
loss of memory
loss of mind
loss of name
loss of reason
loss of repute
loss of speech
loss of tone
loss of touch with reality
loss of voice
loss of your illusions
loss ratio
lost cause
lost in
lost in amazement
lost in thought
lost in wonder
lost lamb
lost language
lost motion
lost river
lost sheep
lost soul
lost souls
lost to
lost to all sense of honor
lost to shame
lost to sight
lost to view
lost tribes
lost-wax process
lot on
lot out
lot, a
lot, the
lote bush
lots of laughs
lotus grass
lotus land
lotus position
lotus-eater
lotus-eating
loud and clear
loud color
loud noise
loud pedal
loud sound
loud-acclaiming
loud-applauding
loud-bellowing
loud-blustering
loud-calling
loud-clamoring
loud-cursing
loud-hailer
loud-laughing
loud-mouth
loud-mouthed
loud-mouthing
loud-ring
loud-roared
loud-roaring
loud-screaming
loud-singing
loud-sounding
loud-speaker
loud-speaking
loud-spoken
loud-squeaking
loud-thundering
loud-ticking
loud-voiced
loudspeaker van
lousy-da
lough diver
louis d'or
louis quatorze
louis quinze
louis seize
louis treize
lounge around
lounge bar
lounge car
lounge chair
lounge lizard
lounge suit
lounging jacket
lounging pajamas
lounging robe
loup cervier
loup-cervier
loup-garou
louping ill
loups-garous
louse herb
louse up
louse-up
loused up
lousy knave
lousy rich
lousy with
louver board
louver boards
louver window
love God
love affair
love apple
love arrows
love charm
love chest
love child
love deities
love ditty
love feast
love game
love god
love goddess
love grass
love interest
love knot
love letter
love match
love nest
love of God
love of country
love of mankind
love potion
love seat
love set
love song
love story
love the sound of your own voice
love to
love to distraction
love vine
love-anguished
love-apple
love-begot
love-begotten
love-bird
love-bitten
love-born
love-breathing
love-crossed
love-darting
love-delighted
love-devouring
love-drury
love-entangle
love-entangled
love-enthralled
love-feast
love-illumined
love-in-a-mist
love-in-idleness
love-inspired
love-inspiring
love-knot
love-lacking
love-laden
love-learned
love-lies-bleeding
love-lilt
love-lorn
love-mad
love-madness
love-maker
love-making
love-mourning
love-performing
love-sick
love-smitten
love-spent
love-starved
love-stricken
love-touched
love-whispering
love-worthiness
love-worthy
love-wounded
loved one
lovely as the day
lovely build
lovely time
lovely to behold
lover of beauty
lover of learning
lover of wisdom
lover's knot
lover's leap
lover-boy
lovers' lane
lovey-dovey
loving care
loving couple
loving cup
loving kindness
loving-kindness
low IQ
low area
low beam
low blood pressure
low brass
low bunt
low camp
low charge
low church
low class
low comedian
low comedy
low cunning
low down
low estimation
low explosive
low fellow
low frequency
low fulham
low german
low grade
low green tent
low ground
low grounds
low growth rate
low house
low hurdles
low in the pecking order
low latin
low man on the totem pole
low mass
low milling
low opinion
low order of importance
low order of probability
low pitch
low price
low price tag
low prices
low priority
low profile
low quality
low relief
low rumbling
low sodium diet
low spear grass
low spirits
low sunday
low tariff
low taste
low temperature
low tide
low visibility
low voice
low water
low wine
low wines
low-altitude bombing
low-arched
low-backed
low-bellowing
low-bended
low-blast
low-blooded
low-bodied
low-boiling
low-born
low-boughed
low-bowed
low-breasted
low-bred
low-brow
low-browed
low-built
low-calorie diet
low-camp
low-capacitance probe
low-carbohydrate diet
low-caste
low-ceiled
low-ceilinged
low-charge
low-churchman
low-class
low-conceited
low-conditioned
low-consumption
low-cost
low-country
low-crested
low-crowned
low-current
low-cut
low-deep
low-down
low-down dirty shame
low-downer
low-downness
low-ebbed
low-energy fission
low-filleted
low-flighted
low-fortuned
low-frequency
low-frequency current
low-frequency speaker
low-frequency wave
low-gauge
low-geared
low-grade
low-heeled
low-hung
low-intensity
low-key
low-keyed
low-lead gas
low-level
low-level language
low-leveled
low-lipped
low-lived
low-living
low-low
low-lying
low-masted
low-melting
low-minded
low-mindedly
low-mindedness
low-murmuring
low-muttered
low-necked
low-paneled
low-pass filter
low-pitched
low-power
low-pressure
low-pressure area
low-pressure cylinder
low-pressure salesmanship
low-priced
low-principled
low-priority
low-profile
low-purposed
low-quality
low-quartered
low-rate
low-rented
low-resistance
low-rimmed
low-rise
low-roofed
low-salt diet
low-set
low-sized
low-sounding
low-spirited
low-spiritedly
low-spiritedness
low-spoken
low-statured
low-temperature
low-tension
low-test
low-thoughted
low-toned
low-tongued
low-tread
low-uttered
low-voiced
low-voltage
low-voltage protection
low-voltage release
low-waisted
low-water
low-water mark
low-wattage
low-wheeled
low-wing monoplane
low-withered
low-witted
low-yield nuclear weapons
lowbush blueberry
lowdown, the
lower apsis
lower atmosphere
lower berth
lower bo
lower boom
lower bound
lower case
lower chamber
lower class
lower classes
lower criticism
lower deck
lower frequencies
lower fungus
lower hold
lower house
lower limit
lower mast
lower middle class
lower mizzen-topsail yard
lower mordent
lower oneself
lower orders
lower ranks
lower regions
lower sail
lower school
lower semi-continuous function
lower semicontinuous function
lower side
lower status
lower strata
lower studding sail
lower the boom
lower the spirits
lower world
lower your colors
lower your flag
lower your guard
lower your note
lower your tone
lower yourself
lower-boom topping lift
lower-case
lower-case alphabet
lower-cased
lower-casing
lower-income housing
lowering yourself
lowest common denominator
lowest common multiple
lowest layer
lowest level
lowest point
lowest stratum
lowest terms
lowland fir
lowland plover
lowland white fir
lowness of spirit
lowside window
loxa bark
loyal friendship
loyal opposition
loyalty oath
lozenge perforation
lozenge-shaped
lpW
lt-yr
lubber fend
lubber fiend
lubber grasshopper
lubber line
lubber's hole
lubber's knot
lubber's line
lubber's mark
lubber's point
lubber-hole
lube oil
lubricating agent
lubricating oil
lucid interval
lucid stillness
lucifer match
luck of the draw
luck penny
lucken gowan
lucky bean
lucky break
lucky dip
lucky dog
lucky person
lucky piece
lucky shot
lucky strike
lucky-bag
lucrative interest
lucus a non lucendo
ludicro-
lufbery circle
luff on luff
luff tackle
luff up
luff upon luff
lug foresail
lug hook
lug in
lug in by the heels
lug nut
lug pad
lug screw
lug sill
lug topsail
lug wrench
lug-rigged
lug-worm
luggage shop
luggage tan
luggage train
luggage van
lugger topsail
lukewarm piety
lukewarm support
lull before the storm
lull to sleep
lullaby vt
lumb-
lumbar puncture
lumbar region
lumbar rheumatism
lumber jacket
lumber kiln
lumber room
lumber-pie
lumbering pace
lumberman's saw
lumbo-
lumbo-abdominal
lumbo-aortic
lumbo-iliac
lumbo-inguinal
lumbo-ovarian
lumen meter
lumen-hour
lumin-
luminosity curve
luminous efficacy
luminous efficiency
luminous emittance
luminous energy
luminous exitance
luminous flux
luminous flux density
luminous intensity
luminous paint
luminous power
luminous range
lump coal
lump it
lump of sugar
lump sucker
lump sum
lump together
lump-fish
lumpen proletariat
lumpy jaw
luna cornea
luna moth
lunar base
lunar caustic
lunar city
lunar colony
lunar corona
lunar cycle
lunar day
lunar distance
lunar eclipse
lunar excursion module
lunar halo
lunar insertion
lunar landscape
lunar mare
lunar module
lunar month
lunar orbit
lunar rainbow
lunar rill
lunar rille
lunar tide
lunar waste
lunar year
lunar-diurnal
lunatic asylum
lunatic fringe
lunch break
lunch counter
lunch hour
lunch time
lunch wagon
luncheon bar
luncheon meat
luncheon voucher
lung book
lung cancer
lung fever
lung fish
lung fluke
lung plague
lung sickness
lunge at
lungworm disease
lunisolar precession
lunisolar interval
lupus erythematosus
lupus vulgaris
lurid imagination
lurking hole
lurking place
lush up
lust after
lust for
lust for knowledge
lust for learning
lust-born
lust-burned
lust-burning
lust-engendered
lust-stained
lust-tempting
luster pottery
luster wool
lustful leer
lusts of the flesh
lusus naturae
lute maker
lute player
lute stern
lute tablature
lute-
  lute-backed
  lute-fashion
  lute-playing
  lute-string
  lute-voiced
  luteinizing hormone
luteo-
  lutine bell
luting paste
luxuriate in
luxuriate on
luxury liner
luxury price
luxury tax
luxury-loving
luxury-proof
lyam-hound
lych gate
lych-gate
lychee nut
lycoperdon nut
lycopodium powder
lye boil
lygaeid bug
lygus bug
lying ahull
lying down
lying hid
lying in ambush
lying in wait
lying low
lying press
lying pretension
lying to
lying wall
lying-in
lying-in hospital
lying-ins
lyings-in
lyke-wake
lyme grass
lyme-grass
lyme-hound
lymph cell
lymph corpuscle
lymph gland
lymph heart
lymph node
lymph nodule
lymph-
lymph-vascular
lymphatic gland
lymphatic leukemia
lymphatic system
lympho-
lympho-adenoma
lymphogenous leukemia
lymphogranuloma inguinale
lymphogranuloma venereum
lymphoid cell
lymphoid leukemia
lynch law
lynx cat
lynx flower
lynx-eyed
lyo-
lyra viol
lyrate-lobed
lyre back
lyre bat
lyre pheasant
lyre snake
lyre tree
lyre turtle
lyre-form sofa
lyre-guitar
lyre-leaved
lyre-shaped
lyre-tailed
lyre-tailed nightjar
lyric bass
lyric cantata
lyric drama
lyric poet
lyric poetry
lyric soprano
lyric stage
lyric tenor
lyric theater
lyric-writing
lyrical abstraction
lyrical abstractionist
lyric-dramatic
lyrico-epic
lys-
lysergic acid
lysergic acid diethylamide
lyso-
m b
m d
m-l
m-RNA
m-day
m-hum
m-ple point
mA
mAN
mC
mCi
mF
mGal
mH
mL
mM
mR
mRNA
mV
mW
ma chere
ma-jong
mabi bark
macaco worm
macadamia nut
macaranga gum
macaroni and cheese
macaroni cheese
macaroni salad
macaroni wheat
macaronic verse
macaw fat
macaw palm
mace butter
mace oil
mace-bearer
mach number
machina versatilis
machinations of the devil
machine binder
machine bolt
machine composition
machine computation
machine cutter
machine dresser
machine drill
machine feeder
machine gun
machine gunner
machine knife
machine knitter
machine language
machine lapper
machine nailer
machine pistol
machine politician
machine politics
machine readable
machine rifle
machine ruler
machine screw
machine shop
machine stamper
machine steel
machine stitch
machine stitcher
machine stitching
machine tool
machine word
machine-breaking
machine-broken
machine-cut
machine-drilled
machine-driven
machine-finished
machine-forged
machine-gun
machine-gun fire
machine-gunned
machine-gunning
machine-hour
machine-knitted
machine-made
machine-mixed
machine-sewed
machine-stitch
machine-stitched
machine-switching office
machine-toolled
machine-woven
machine-wrought
machinery steel
machinist's hammer
machinist's mate
mackay bean
mackerel bait
mackerel bird
mackerel breeze
mackerel gull
mackerel shark
mackerel sky
mackinaw coat
macnab cypress
macrame cord
macrame knot
macro-
macro-axis
macrobiotic diet
macrocytic anemia
macula lutea
mad about
mad apple
mad as a March hare
mad as a hatter
mad as a hornet
mad as a wet hen
mad dog
mad for
mad itch
mad money
mad on
mad round
mad staggers
mad with lust
mad-apple
mad-brained
mad-bred
mad-doctor
mad-dog skullcap
mad-headed
madder bleach
madder bloom
madder blue
madder brown
madder carmine
madder crimson
madder extract
madder lake
madder orange
madder pink
madder purple
madder red
madder rose
madder scarlet
madder violet
madder yellow
made dish
made eye
made flesh
made for
made mast
made of
made of iron
made of money
made out of
made out of whole cloth
made public
made rug
made sure
made to grovel
made to order
made up
made up of
made-beaver
made-over
made-to-measure
made-to-order
made-up
madia oil
madonna lily
madre-perl
madrepore glass
madrepore marble
madrepore body
madreporic plate
madreporic tubercle
mae west
maestro di cappella
mafura tallow
mag tape
magazine camera
magazine clothing
magazine publishing
magazine section
magazine writer
magellanic cloud
magen david
maggot in one's brain
maggot in the brain
maggot snipe
maggot therapy
maggot-pie
magic act
magic belt
magic bullets
magic carpet
magic circle
magic eye
magic formula
magic lantern
magic lily
magic number
magic realism
magic realist
magic ring
magic show
magic spectacles
magic spell
magic square
magic wand
magic words
magico-religious
magnetic dipole moment
magnetic disk
magnetic domain
magnetic drum
magnetic drum recorder
magnetic electricity
magnetic elements
magnetic equator
magnetic field
magnetic field of currents
magnetic figures
magnetic flux
magnetic flux density
magnetic force
magnetic friction
magnetic heading
magnetic hysteresis
magnetic inclination
magnetic induction
magnetic ink
magnetic intensity
magnetic lag
magnetic lens
magnetic memory
magnetic meridian
magnetic mine
magnetic moment
magnetic needle
magnetic north
magnetic permeability
magnetic pickup
magnetic pole
magnetic potential
magnetic pulley
magnetic quantum number
magnetic recorder
magnetic recording
magnetic relay
magnetic reluctance
magnetic remanence
magnetic repulsion
magnetic resistance
magnetic retardation
magnetic retentiveness
magnetic rotation
magnetic scalar potential
magnetic storm
magnetic tape
main-royal mast
main-royal stay
main-royal staysail
main-royal studding sail
main-royal yard
main-royal-studding-sail boom
main-sheet
main-skysail brace
main-skysail lift
main-skysail mast
main-skysail stay
main-skysail yard
main-top
main-topgallant
main-topgallant brace
main-topgallant lift
main-topgallant mast
main-topgallant sail
main-topgallant stay
main-topgallant studding sail
main-topgallant yard
main-topgallantmast
main-topmast
main-topmast stay
main-topmast staysail
main-topmast studding sail
main-topmast-studding-sail boom
main-topsail
main-topsail lift
main-topsail schooner
main-topsail yard
main-trysail gaff
main-trysail peak halyard
main-trysail rig
main-trysail vang
main-yard
main-yardman
mainstream jazz
maintain a household
maintain clearance
maintain connection
maintain continuity
maintain distance
maintain position
maintain the heading
maintain the highest standards
maintain with your last breath
maintain your perspective
maintained school
maintaining power
maintenance and cure
maintenance bond
maintenance man
maintenance of membership
maintenance of your good name
mais oui
maison de sante
maison-dieu
maitre d'
maitre d'hôtel
maitre de ballet
maitre d'hotel
maize mildew
maize oil
maize smut
maize yellow
maize-eater
majo bitters
majolica dipper
majolica painter
major agglutinins
major axis
major basilica
major chord
major element
major form class
major general
major in
major interval
major key
major league
major medical insurance
major mode
major operation
major operations
major order
major orders
major part
major party
major penalty
major piece
major planet
major poet
major premise
major premiss
major scale
major second
major seminary
major seventh chord
major suit
major surgery
major tenace
major term
major third
major triad
major-domo
major-domos
major-domoship
major-general
major-generator
major-generalcy
major-generalship
major-league
major-leaguer
majority carrier
majority leader
majority rule
majuscule script
make a North River jibe
make a U-turn
make a bargain
make a bed
make a beeline
make a beginning
make a bequest
make a bet
make a bid
make a bid for
make a blind bargain
make a blooper
make a blunder
make a board
make a boast of
make a bold push
make a boner
make a boo-boo
make a break for
make a break for it
make a breakthrough
make a brolly-hop
make a burst of speed
make a buy
make a call
make a cash payment
make a cat's-paw of
make a cautious move
make a chattel of
make a circuit
make a clamor
make a clean breast
make a clean breast of
make a close study of
make a comeback
make a commotion
make a comparison
make a compromise
make a critical revision
make a cross-reference
make a dash
make a dash at
make a dash for
make a date
make a dead set against
make a dead set at
make a dead-stick landing
make a deal
make a deal for
make a decision
make a demand
make a dent in
make a determined resistance
make a detour
make a dicker
make a distinction
make a doormat of oneself
make a doormat of yourself
make a face
make a fair copy
make a false step
make a faux pas
make a federal case
make a federal case of
make a figure
make a fine distinction
make a flight
make a fool of
make a fool of yourself
make a fortune
make a fresh start
make a funny
make a fuss
make a fuss about
make a fuss over
make a generalization
make a getaway
make a go of it
make a good board
make a good end
make a good thing of
make a grab for
make a half board
make a hash of
make a hit
make a hit with
make a hog of yourself
make a hole in
make a household word of
make a journey
make a killing
make a landfall
make a laughingstock of
make a leg
make a light
make a lip
make a liquid sound
make a living
make a long face
make a long story short
make a low bow
make a lucky strike
make a man of
make a mark
make a match
make a memorandum
make a mess of
make a miscue
make a misstep
make a mistake
make a mockery of
make a monkey of
make a monkey of yourself
make a monkey out of
make a motion
make a moue
make a mouth
make a move
make a mow
make a new beginning
make a new man of
make a nice distinction
make a noise
make a noise in the world
make a nose dive
make a note
make a parachute jump
make a party to
make a pass
make a pass at
make a passage
make a patsy of
make a pawn of
make a peace offering
make a personal appearance
make a pig of yourself
make a pilgrimage
make a pinch
make a pitch for
make a play for
make a plaything of
make a plea
make a point of
make a practice of
make a precipitate departure
make a prediction
make a present of
make a pretense
make a pretense of
make a pretext of
make a production of
make a prognosis
make a projection
make a promise
make a proof
make a prophecy
make a puppet of
make a purchase
make a quick exit
make a racket
make a radical change
make a raid
make a rebuttal
make a recension
make a reconnaissance
make a regulation
make a report
make a request
make a requisition
make a resolute stand
make a resolution
make a reverence
make a round trip
make a row
make a run
make a run for
make a rush at
make a sacrifice
make a sale
make a scene
make a scoop
make a selection
make a set at
make a short sale
make a show
make a show of
make a sign
make a signal
make a slow start
make a sound
make a sounding
make a space
make a special effort
make a spectacle of yourself
make a speech
make a spinnaker run
make a splash
make a splurge
make a sport of
make a spurt
make a stab at
make a stand
make a stand against
make a statement
make a stir about
make a strategic withdrawal
make a strong bid for
make a study of
make a subtle distinction
make a success
make a sucker of
make a survey
make a syllabus
make a tentative move
make a thrust at
make a tilt at
make a to-do
make a to-do over
make a touch
make a train
make a trial of
make a trip
make a try
make a virtue of necessity
make a visit
make a whole
make a will
make a wrong step
make a wry face
make a wry face at
make a wry mouth
make accounts square
make acknowledgment
make acknowledgments of
make acquaintance with
make acquainted
make acute
make advances
make after
make agree
make all clear for
make all square
make allocations
make allowance
make allowance for
make allowances for
make amends
make an adaptation
make an adjustment
make an ado
make an ado about
make an allusion to
make an announcement
make an appearance
make an approximation
make an arrangement
make an arrest
make an ass of
make an ass of yourself
make an assignment
make an attempt
make an auspicious beginning
make an edition
make an effort
make an end of
make an entrance
make an entry
make an estimation
make an example of
make an exit
make an expedition
make an experiment
make an idol of
make an impact upon
make an impression
make an improvement
make an incursion
make an inroad
make an intrusion
make an investment
make an irruption into
make an obeisance
make an offer
make an opening
make an outcry
make an overture
make an uproar
make and break
make angry
make answer
make anxious
make apology for
make application
make arrangements
make arrangements for
make as if
make as though
make assignments
make assurance double sure
make at
make attentive
make available
make available to all
make away
make away with
make bad weather
make believe
make better
make bite the dust
make black
make blind
make blood flow freely
make blue
make bold
make bold to
make bold to ask
make bold with
make bones about
make bones of
make book
make both ends meet
make bricks without straw
make businesslike
make capital of
make capital out of
make ceramics
make certain
make choice of
make clear
make cold
make comfortable
make common cause
make common cause with
make compensation
make complex
make concave
make concessions
make conditional
make confession
make conform
make connection
make contact with
make contingent
make conversation
make court to
make delivery
make dependent
make dispositions for
make dissimilar
make distinctions
make do
make do with
make doubt
make drunk
make ducks and drakes of
make due provision for
make dutiable
make economies
make elastic
make electric
make ends meet
make every effort
make expiation
make explosive noise
make eyes at
make fair promise
make fair weather
make false pretenses
make fast
make for
make for health
make foul water
make four
make free
make free of
make free with
make friends with
make fun
make fun of
make game of
make go
make goo-goo eyes at
make good
make good time
make good use of
make good weather
make good your escape
make good your promise
make good your word
make grandiloquent
make graphics
make grieve
make grow
make happy
make haste
make haste slowly
make hay
make hay of
make hay while the sun shines
make head
make head against
make headway
make heavy weather
make heavy weather of it
make her number
make holiday
make hopeless
make hot
make hot under the collar
make human
make ill-humored
make immortal verse
make imperative
make impossible
make incumbent
make innovations
make inquiry
make inquisition
make it
make it a condition
make it clear
make it felt
make it hot for
make it quick
make it snappy
make it so
make it tough for
make it up
make it up to
make it with
make it your business
make its appearance
make justice prevail
make knots
make known
make land
make larger
make late
make laws
make leeway
make legal
make legal and binding
make legendary
make lie down and roll over
make lie down and turn over
make light
make light of
make lighter
make like
make likely
make liquor
make little of
make love
make mad
make magnetic
make mandatory
make matters up
make mention of
make merry
make merry with
make mincemeat of
make money
make money by
make more acute
make more likely
make more than one
make more than you
make mountains out of molehills
make much ado about
make much ado about nothing
make much of
make music
make nervous
make no bones about
make no bones about it
make no doubt
make no mistake
make no provision
make no scruple of
make no sign
make nothing of
make obeisance
make obligatory
make of
make off
make off with
make one
make one easy
make one tremble
make one's blood run cold
make one's flesh creep
make one's hair stand on end
make one's teeth chatter
make oneself heard
make out
make out a case
make out a report
make out like
make out with
make over
make overtures
make parallel
make parts
make pay through the nose
make peace
make perfect
make place
make plain
make plates
make pleasant
make pliant
make plumb
make port
make possible
make precise
make preparations
make prints
make probable
make profit
make progress
make progress against
make propitiation
make proud
make provision for
make public
make purple
make putty of
make quits
make rapid strides
make ready
make red
make redundant
make reference to
make reparation
make reprisal
make requisition
make requital
make reservations
make restitution
make retribution
make right
make right prevail
make room
make round
make sacrifice to
make sad
make sad work of
make safe
make sail
make sea room
make secure
make semitransparent
make sense
make sensitive
make shift
designed for
make sit up and beg
make small
make smell like roses
make so bold as to
make soft
make someone see stars
make sore
make space
make special
make staccato sounds
make sternway
make strides
make suit to
make supplication
make sure
make sure against
make sure of
make talk
make terms
make the air blue
make the best of
make the best of a bad bargain
make the best of it
make the best of your time
make the best of your way
make the butt of your humor
make the chips fly
make the dust fly
make the eagle scream
make the eyes water
make the flesh crawl
make the flesh creep
make the fur fly
make the grade
make the mind a blank
make the most of
make the most of it
make the most of your time
make the mouth water
make the round of
make the rules
make the scene
make the sign of the cross
make the sign of the cross over
make the sign of the cross upon
make the sparks fly
make the supreme sacrifice
make the welkin ring
make the worst of
make things hum
make threads
make time
make time stand still
make tired
make too much of
make tough
make toward
make toxic
make tracks
make tributary
make trouble
make uncertain
make unfeeling
make uniform
make unintelligible
make unique
make up
make up accounts
make up for
make up for lost time
make up leeway
make up to
make up your mind
make use of
make vertical
make viscid
make void
make war
make war on
make water
make waves
make way
make way for
make way into
make welcome
make whoopee
make with
make worse
make you a
make you a compliment
make you fed-up
make you feel at home
make you feel welcome
make you jump out of his skin
make you puke
make you retch
make you say 'uncle'
make you see
make you see double
make you shit your pants
make you shudder
make you sick
make you sick in the stomach
make you sick to the stomach
make you sing small
make you sit up and take notice
make you stare
make you tiddly
make you tired
make you tremble
make you vomit
make young
make your adieus
make your appearance
make your bed
make your bed and lie on it
make your blood boil
make your blood run
make your blood run cold
make your bow
make your business
make your case
make your cause your own
make your choice
make your compliments to
make your debut
make your escape
make your exit
make your field
make your flesh creep
make your fortune
make your hair stand on end
make your head reel
make your head revolve
make your head spin
make your head swim
make your head whirl
make your heart bleed
make your home
make your keep
make your mark
make your mouth water
make your move
make your nerves tingle
make your oath
make your own
make your own way
make your peace
make your pile
make your point
make your rounds
make your salutations
make your skin crawl
make your teeth chatter
make your voice heard
make your way
make your way to
make yourself acquainted with
make yourself at home
make yourself comfortable
make yourself conspicuous
make yourself easy about
make yourself easy on that score
make yourself felt
make yourself heard
make yourself master of
make yourself part of
make yourself scarce
make yourself understood
make-
make-ado
make-belief
make-believe
make-do
make-faith
make-falcon
make-fire
make-fray
make-game
make-hawk
make-king
make-law
make-mirth
make-or-break
make-out artist
make-peace
make-ready
make-shame
make-sport
make-talk
make-up
make-way
make-weight
make-work
maker's mark
maker-off
maker-up
makes of
makes you shiver
makeup artist
makeup man
making a clean breast
making a leg
making a part of
making again
making amends
making an end
making blind
making certain
making distinctions
making do
making foolish
making good
making iron
making it with
making light
making no bones about it
making once more
making over
making ready
making right
making scenes
making soft
making up
making way
making yourself scarce
making-up
making-up day
making-up price
mako shark
mal a propos
mal de mer
mal de pinto
mal du pays
mal-
mal-entendu
mal-observation
mala fide
mala fides
malac-
malacca cane
malachite green
malaco-
malade imaginaire
maladie du pays
maladjusted personality
malar bone
malarial fever
malayo-
malade alto
male animal
male bamboo
male being
male cat
male chauvinism
male chauvinist
male chauvinist pig
male fern
male gamete
male line
male organs
male person
male rhyme
male servant
male sex
male turkey
male-
male-sterile
maleic acid
maleic hydrazide
malevolent influence
malgre soi
malic acid
malice aforethought
malice prepense
malicious defamation
malicious gossip
malicious mischief
malicious parody
malignant catarrh
malignant catarrhal fever
malignant granuloma
malignant growth
malignant hypertension
malignant lymphoma
malignant pustule
malignant tumor
malleable cast iron
malleable iron
mallee bird
mallee fowl
mallee root
malleh bug
mallow family
mallow pink
mallow rose
mallow rust
mallow tree
malm rock
malonic acid
malonic ester
malonyl group
malonyl radical
maloo climber
malpighian layer
malpighian tube
malpractice insurance
malt extract
malt house
malt liquor
malt sugar
malt vinegar
malt whiskey
malt whisky
malt-dust
malt-horse
malt-house
malt-worm
malta fever
malted milk
maltese cat
maltese cross
malum in se
mama's boy
mamma's boy
mammary gland
mammato-cumulus
mammee apple
mammee colorado
mammee sapota
mammoth tree
mammy coot
mammy wagon
mamori katana
man Friday
man about town
man after your own heart
man alive
man and boy
man and wife
man and woman
man ape
man engine
man fish
man fridays
man from Mars
man fungus
man higher up
man hunt
man hunter
man in the moon
man in the street
man jack
man lock
man midwife
man mountain
man of God
man of action
man of all work
man of commerce
man of courage
man of deeds
man of experience
man of few words
man of genius
man of good will
man of his word
man of honor
man of influence
man of intellect
man of iron
man of learning
man of letters
man of mark
man of means
man of men
man of mettle
man of note
man of old
man of parts
man of property
man of science
man of straw
man of substance
man of taste
man of the cloth
man of the house
man of the people
man of the world
man of wealth
man of wisdom
man on the flying trapeze
man on the make
man overboard
man power
man the garrison
man tiger
man with hair on his chest
man without a country
man's best friend
man's estate
man-abhorring
man-about-town
man-at-arms
man-back
man-bearing
man-begot
man-bodied
man-born
man-brute
man-carrying
man-catching
man-centered
man-changed
man-child
man-compelling
man-created
man-day
man-days
man-degrading
man-destroying
man-devised
man-devouring
man-eater
man-eating
man-eating shark
man-enchanting
man-enslaved
man-fashion
man-fearing
man-for-man defense
man-forked
man-god
man-grown
man-handle
man-hater
man-hating
man-headed
man-high
man-hole
man-hour
man-hunter
man-keen
man-killer
man-killing
man-made
man-maiming
man-making
man-midwife
man-midwifery
man-miller
man-mimicking
man-minded
man-minute
man-o'-war
man-o'-war bird
man-of-the-earths
man-of-war
man-of-war bird
man-of-war fish
man-of-war's man
man-orchis
man-pleasing
man-record chart
man-ridden
man-servant
man-shaped
man-size
man-sized
man-sized job
man-sized meal
man-stalking
man-subduing
man-supporting
man-tailored
man-taught
man-to-man
man-to-man defense
man-trap
man-woman
man-worshiping
man-worthiness
man-worthy
man-year
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manage to
manage with
manage yourself
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managed currency
managed price
managed prices
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management consulting
management engineering
management information system
management share
management theory
management trust
managing director
managing editor
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mandarin duck
mandarin orange
mandated territory
mandatory injunction
mandatory primary
mandatory referendum
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mandibulo-auricularis
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mando-cello
mandrel lathe
mandrel press
maned wolf
manettia vine
maneuver tactics
maneuvering room
maneuvering space
mangabeira rubber
mangan-
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manganese brown
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manganese epidote
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manganous sulfate
mange mite
mange-mange
mangel-wurzel
manger board
manger son ble en herbe
mangle operator
mangle rack
mangle wheel
mango anthracnose
mango bird
mango fish
mango ginger
mango melon
mango-squash
mangold fly
mangold-wurzel
mangrove catechu
mangrove cuckoo
mangrove family
mangrove mullet
mangrove skipper
mangrove snapper
mangum terrace
manhood suffrage
mania a potu
maniacal excitement
manic condition
manic state
manic-depressive
manic-depressive psychosis
manicoba rubber
maniere criblee
manifest content
manifest destiny
manifest itself
manifest yourself
manifold paper
manifold pressure gauge
manila grass
manila hemp
manila paper
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manipulated market
manipulated variable
manipulative surgery
manlike types
manly art of self-defense
manly vigor
mann tree
mann-
manna ash
manna from heaven
manna grass
manna gum
manna in the wilderness
manna insect
manna lichen
manna sugar
manna-croup
manned rocket
manned station
manner of articulation
manner of being composed
manner of speaking
manner of working
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manner of working
manner of working
manner of working
manner of being composed
mannish bob
mannish female
mannish wavy shingle
mannitol hexanitrate
manometer pressure
manor farm
manor house
manor manege
manor-house
manrope knot
mansard roof
mansion house
mansion-house
mansions in the sky
manstopping bullet
manta ray
mantel shelf
mantel-tree
mantis crab
mantis shrimp
mantle cavity
mantle of snow
mantle rock
mantle yourself with
mantle-rock
mantled in darkness
mantoux test
manual alphabet
manual art
manual arts school
manual control
manual labor
manual of instruction
manual training
manubial column
manufactured gas
manufacturer's agent
manufacturing center
manufacturing lathe
manufacturing plant
manufacturing quarter
manufacturing town
manure pile
manx cat
many a time
many a time and oft
many and various
many irons in the fire
many thanks
many times
many times over
many-
many-acred
many-angled
many-armed
many-banded
many-beaming
many-belled
many-bleating
many-blossomed
many-blossoming
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many-breasted
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many-headedness
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map making
map out
map projection
map reader
map reading
map turtle
maple ash
maple borer
maple eye
maple family
maple scale
maple sirup
maple sugar
maple syrup
maple syrup urine disease
maple worm
maple-faced
maple-leaved
mar-
mar-hawk
marabou stork
maraging steel
marang nut
maraschino cherries
maraschino cherry
marathon race
marble cake
marble cork
marble flower
marble thrush
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marble-breasted
marble-calm
marble-checkered
marble-colored
marble-constant
marble-covered
marble-faced
marble-grinding
marble-hard
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marble-mindedness
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marble-paved
marble-piled
marble-pillared
marble-polishing
marble-quarrying
marble-ribbed
marble-sculptured
marble-topped
marble-white
marbled paper
marc de Burgogne
marcel wave
march against
march away
march in double-quick time
march in quick time
march of events
march of time
march off
march on
march out
march out of step
march past
march stone
march tempo
march under the banner of
march up to the cannon's mouth
march upon
march with
march-land
march-man
march-past
marche aux puces
marching orders
marchioness-ship
marconi rig
mardi gras
mare clausum
mare liberum
mare nostrum
mare's nest
mare's tail
mare's-nest
mare's-tail
mare-rode
marechal niel
mares of Diomedes
margaric acid
margate fish
margin draft
margin line
margin of lift
margin of power
margin purchaser
margin up
marginal affair
marginal land
marginal man
marginal matter
marginal note
marginal sea
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mariage de convenance
marigold finch
marigold window
marigold yellow
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marijuana smoker
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marine animals
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marine belt
marine biology
marine blue
marine chronometer
marine corps
marine engine
marine engineer
marine engineering
marine glue
marine green
marine insurance
marine ivy
marine league
marine painter
marine painting
marine railway
marine shell
marine soap
marine store
marine superintendent
marine travel
marine-finish
mariner's chart
mariner's compass
mariposa lily
marital affinity
marital faithfulness
marital fidelity
marital relations
maritime belt
maritime law
maritime reconnaissance plane
marjoram oil
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mark degree
mark down
mark lodge
mark of Cain
mark of office
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market-ripe
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marketing research
marking caliper
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marking hammer
marking hatchet
marking ink
marking iron
marking knife
marking nut
marking stitch
marking the occasion
marl grass
marl-pit
marlin swordfish
marline-spike
marlinespike fish
marlinespike hitch
marlinespike seamanship
marling hitch
marmalade box
marmalade plum
marmalade tree
marmoreal repose
marmot squirrel
marnean epoch
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marquise rose
marquoise scale
marram grass
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marriage broker
marriage ceremony
marriage chest
marriage connection
marriage contract
marriage counselor
marriage deities
marriage encounter
marriage flight
marriage god
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marriage guidance
marriage license
marriage of convenience
marriage portion
marriage proposal
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marriage song
marriage vow
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married love
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marsh violet
marsh warbler
marsh watercress
marsh wren
marsh-mallow
marshal your ideas
marshal your thoughts
marshal's baton
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marsupial mouse
martello tower
martial arts
martial law
martial music
martial spirit
martin snipe
martingale backrope
martingale boom
marumi kumquat
marvel-of-Peru
mary jane
mary magdalene
mascarene grass
mascot blue
masculine caesura
masculine ending
masculine rhyme
masculo-
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mash note
mash tun
mash up
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mask microphone
mask of death
mask stop
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mason-dixon line
masquerade as
masquerade ball
masquerade party
mass action
mass attack
mass card
mass defect
mass destruction
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mass in
mass leave
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mass market
mass media
mass meeting
mass movement
mass murder
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mass number
mass observation
mass observer
mass of the presanctified
mass production
mass ratio
mass reflex
mass spectrograph
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mass spectrometer
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mass spectroscope
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mass spectrum
mass suicide
mass unit
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mass-word
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massor mass
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master carpenter
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master compass
master control desk
master controller
master craftsman
master cylinder
master film
master gauge
master gunner
master hand
master key
master leaf
master map
master mariner
master mason
master matrix
master mechanic
master of
master of ceremonies
master of foxhounds
master of style
master of the house
master of the revels
master of the rolls
master of the situation
master plan
master race
master rod
master screw
master sergeant
master shifter
master spirit
master spirit of the age
master spring
master stroke
master switch
master tap
master touch
master wheel
master workman
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master yourself
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master's gown
master's oral
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master-builder
master-hand
master-key
master-mason
master-singer
master-slave manipulator
master-stroke
master-vein
master-work
masters-at-arms
mastery of skills
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masthead compass
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mastiff bat
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mastodon locomotive
mastoid cell
mastoid process
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mat burn
mat cane
mat finish
mat of hair
mat rush
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match cord
match data
match findings
match frame
match game
match hook
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match joint
match lining
match pipe
match plane
match plate
match play
match point
match race
match rifling
match rope
match stamp
match tub
match up with
match wheel
match yourself against
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match-lined
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matching machine
matching pair
matching plane
matching set
matchless discordant
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mateo-
mater dolorosa
mater lectionis
mater of fact
materia medica
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material body
material cause
material costs
material culture
material fallacy
material grounds
material logic
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material point
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mathemático-physical
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mating cry
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matre d'hôtel butter
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matrimonial bureau
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maximum dissemination
maximum likelihood
maximum modulus principle
maximum speed
maximum thermometer
maximum-security prison
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may day
may duke
may it please you
may queen
may tree
may-apple
may-bug
may-bush
may-butter
may-day
may-dew
may-flowering tulip
may-fly
may-game
may-lady
may-lord
may-woon
mayfair tan
mayor-elect
mazel tov
maze-gane
mazel tov
mazer tree
mcm1io n9p8y9r lllglhut
me-too
me-tooism
me-ward
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meadow anemone
meadow barley
meadow beauty
meadow bell
meadow bird
meadow brook
meadow brown
meadow cabbage
meadow campion
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meadow clover
meadow crake
meadow cress
meadow crocus
meadow crowfoot
meadow cup
meadow death camass
meadow fern
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meadow gowan
meadow grass
meadow grasshopper
meadow green
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meadow land
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meadow mushroom
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meadow nematode
meadow nuts
meadow nymph
meadow orchis
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meadow pipit
meadow queen
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meadow rue
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meadow scabish
meadow snipe
meadow soft grass
meadow sorrel
meadow spear grass
meadow titling
meadow vetchling
mean value
mean value theorem
mean well
mean what you say
mean while
mean wretch
mean-acting
mean-conditioned
mean-dressed
mean-looking
mean-minded
mean-souled
mean-spirited
mean-spiritedly
mean-spiritedness
mean-square error
mean-time clock
mean-tone tuning
mean-witted
meander belt
meander line
meandering stream
means of access
means of carrying
means of conveyance
means of dealing
means of production
means of transporting
means test
means to an end
meantone system
measles vaccine
measure against
measure depth
measure for measure
measure line
measure of my days
measure off
measure out
measure signature
measure swords
measure swords with
measure time
measure up
measure up to
measure your length
measure zero
measurement cargo
measurement of variables
measurement ton
measuring cup
measuring device
measuring glass
measuring machine
measuring rod
measuring stick
measuring wheel
measuring worm
meat ax
meat block
meat breakfast
meat by-product
meat chopper
meat cleaner
meat eater
meat fly
meat grinder
meat loaf
meat market
meat offering
meat packer
meat pie
meat preserver
meat saw
meat slicer
meat stew
meat tea
meat thermometer
meat-eater
meat-eating
meat-fed
meat-hungry
meat-packing
meato-
mechan-
mecanic's lien
mechanical advantage
mechanical aid
mechanical aptitude
mechanical arts
mechanical binding
mechanical bird
mechanical device
mechanical drawing
mechanical engineer
mechanical engineering
mechanical equivalent of heat
mechanical heart
mechanical impedance
mechanical instrument
mechanical means
mechanical metallurgy
mechanical piano
mechanical refrigeration
mechanical suspension
mechanical telephone
mechanical tissue
mechanical twin
mechanical vector
mechanical wave
mechanically precise
mechanico-
mechanized warfare
medaddy-bush
medal bronze
medal chief
medal for merit
medal of freedom
medal of honor
medal play
medal winner
meddle with
meden agan
medi-
media campaign
medial condyle
medial strip
median strip
mediastino-pericardial
mediastino-pericarditis
mediastinum testis
mediated generalization
medical Greek
medical aid
medical and surgical instruments
medical attendant
medical attention
medical care
medical center
medical certificate
medical corps
medical diagnosis
medical diathermy
medium quarto
medium shot
medium wave
medium-dated
medium-rare
medium-sized
medley cloth
medley of colors
medley race
medley relay
medulla oblongata
medulla oblongatas
medullae oblongatae
medullary ray
medullary sheath
medusa bud
medusa's head
meed of praise
meek soul
meek-browed
meek-eyed
meek-eyed Morn
meek-minded
meek-spirited
meerschaum enameler
meet a bet
meet adversity
meet an obligation
meet and right
meet around the conference table
meet boldly
meet eyeball to eyeball
meet face to face
meet halfway
meet hand-to-hand
meet head-on
meet her
meet one's end
meet requirements
meet squarely
meet the expense of
meet the eye
meet the gaze
meet up with
meet with
meet with a loss
meet with approval
meet with attention
meet with foul play
meet with success
meet you at every turn
meet your Maker
meet your Waterloo
meet your commitments
meet your death
meet your fate
meet your obligations
meet your wishes
meeting house
meeting of minds
meeting place
meeting rail
meeting-house
meeting-place
meetone's end
meetyour end
mega-
megal-
megalithic tomb
megalo-
megaloblastic anaemia
megavolt-ampere
megawatt-hour
mein Herr
meiwa kumquat
melamine resin
melan-
melancholia attonita
melancholia hypochondriaca
melancholia religiosa
melano-
melanocyte-stimulating hormone
melba toast
melegueta pepper
melic grass
melic poetry
melilite-basalt
mell-doll
mell-supper
mellow wisdom
mellow-breathing
mellow-colored
mellow-deep
mellow-eyed
mellow-flavored
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mellow-mouthed
mellow-ripe
mellow-tasted
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melodic line
melodic minor
melodic minor scale
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melon beetle
melon cactus
melon caterpillar
melon fly
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melon loco
melon louse
melon moth
melon pear
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melon shell
melon shrub
melon thistle
melon tree
melon worm
melon-bulb
melon-faced
melon-formed
melon-laden
melon-leaved
melon-shaped
melon-yellow
melt away
melt down
melt in tears
melt in the air
melt into
melt into one
melt like snow
melt the heart
melting mood
melting point
melting pot
melton cloth
mem-sahib
member bank
member in good standing
member of the bar
member of the human race
member of the intelligentsia
members in Christ
members of the bar
membrana propria
membrana serosa
membrana tympana
membrane bone
membranous labyrinth
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memento mori
memo book
memorandum book
memorandum head
memoria in aeterna
memoria technica
memorial arch
memorial column
memorial day
memorial park
memorial record
memorial rose
memorial statue
memorial stone
memorial tablet
memory bank
memory book
memory circuit
memory gap
memory like a sieve
memory obstruction
memory root
memory span
memory trace
memory training
memory tubes
memory verse
memory-trace
men's chorus
men's clothing
men's lounge
men's magazine
men's room
men's wear
men's-wear shop
men-
men-at-arms
men-children
men-folk
men-of-the-earth
men-of-war
menace to health
menage a trois
menage man
mend sail
mend the furl
mend your fences
mend your manners
mend your ways
mendel's law
mendicant friar
mendicant order
mendoza beaver
menhaden boat
menhaden oil
mending-
meningo-
meningo-osteophlebitis
meno mosso
meno-
menopausal arthritis
mens rea
mens sana in corpore sano
menstrual discharge
menstrual epact
menstrual epilepsy
menstrual equation
menstrual flow
menstrual flux
mensural music
mensural notation
mental acquisitiveness
mental act
mental age
mental alertness
mental alienation
mental association
mental attitude
mental balance
mental blankness
mental blindness
mental block
mental body
mental representation
mental reservation
mental retardation
mental set
mental shock
mental sickness
mental strain
mental subnormality
mental symptom
mental telepathist
mental telepathy
mental test
mental topography
mental void
mental weakness
mentally blind
mentally defective
mentally defective personality
mentally deficient
mentally handicapped
mentally ill
mentally retarded
mentally sick
mentally sound
menteur a triple etage
menthane group
mention confidentially
mention in passing
mention privately
mention to
mentioned in dispatches
mento-
menue viande
meperidine hydrochloride
mer-
mercantile agency
mercantile business
mercantile economy
mercantile law
mercantile marine
mercantile paper
mercantile system
mercapto group
mercapto radical
mercaptor-
mercator projection
merchant adventurer
merchant bank
merchant banker
merchant flag
merchant fleet
merchant guild
merchant marine
merchant navy
merchant prince
merchant ship
merchant venturer
merchant-adventurer
merchant-tailor
merchant-venturer
merci beaucoup
mercer-
mercurial barometer
mercurial mind
mercurial ointment
mercurial telescope
mercuric chloride
mercuric oxide
mercuric subsulfate
mercuric sulfide
mercuric sulphide
mercurous chloride
mercury arc
mercury barometer
mercury bath
mercury bichloride
mercury boiler
mercury cell
mercury chloride
mercury cyanide
mercury dichloride
mercury fulminate
mercury iodide
mercury lamp
mercury mass
mercury oxide
mercury perchloride
mercury poisoning
mercury subchloride
mercury sulfide
mercury sulphide
mercury switch
mercury thiocyanate
mercury weed
mercury-arc lamp
mercury-arc rectifier
mercury-discharge lamp
mercury-vapor detector
mercury-vapor lamp
mercury-vapor tube
mercury-vapor turbine
mercury-vapour lamp
mercy flight
mercy killer
mercy killing
mercy seat
mercy stroke
mercy-seat
mere caricature
mere chance
mere child
mere child's play
mere counterfeit
mere existence
mere externals
mere facade
mere farce
mere few
mere hint
mere noise
mere nothing
mere notion
mere rhetoric
mere scratch
mere shadow
mere show
mere skin and bones
mere subsistence
mere talk
mere theory
mere things
mere tropism
mere wreck
merely exist
merely glimpsed
merely nominal
merely surface
merge in
merge into
meridian angle
meridian circle
meridian of life
meridian section
merit badge
merit rate
merit system
merit-monger
mermaid weed
mermaid's purse
mero cabrilla
mero-
merocrine gland
meromorphic function
merry as a cricket
merry as a grig
merry chase
merry dancers
merry man
merry men
merry-andrew
merry-andrewism
merry-andrewize
merry-eyed
merry-faced
merry-go-round
merry-hearted
merry-make
merry-making
merry-meeting
merry-minded
merry-singing
merry-smiling
merry-totter
mes-
mescal bean
mescal button
mescal buttons
mescal maguey
mesh bag
mesh connection
mesh knot
meshing-spur gear
mesityl oxide
mesmeric sleep
mesne lord
meso-
mesoxalyl-urea
mesquite grass
mesquite gum
mess about
mess about with
mess around
mess around with
mess beef
mess call
mess gear
mess hall
mess in
mess jacket
mess kit
mess pork
mess sergeant
mess steward
mess up
mess with
mess-john
mess-up
message carrier
message stick
message-bearer
messed up
messed-up
messenger RNA
messenger bird
messenger cable
messenger of God
messenger wire
messiah religion
messing around
meta-
meta-toluidine
metabolic disease
metabolic diseases
metabolic heat
metabolic pathway
metabolic psychosis
metacentric stability
metacresol purple
metagalactic space
metal age
metal breaker
metal carbonyl
metal casting
metal cloth
metal coloring
metal cut
metal detector
metal foil
metal fouling
metal lath
metal lather
metal leaf
metal paste-up
metal sculpture
metal spraying
metal wood
metal-bearing
metal-bending
metal-boring
metal-bound
metal-broaching
metal-bushed
metal-clad
metal-clasped
metal-cleaning
metal-coated
metal-covered
metal-cutting
metal-decorated
metal-drilling
metal-drying
metal-edged
metal-embossed
metal-forged
metal-framed
metal-free phthalocyanine
metal-grinding
metal-jacketed
metal-lined
metal-lithography
metal-melting
metal-perforating
metal-piercing
metal-shaping
metal-sheathed
metal-slitting
metal-slotting
metal-studded
metal-testing
metal-tipped
metal-trimming
metallic bond
metallic conduction
metallic luster
metallic soap
metallic thermometer
metallic wood-boring beetle
metallo-
metallo-organic
metallurgical chemistry
metallurgical engineer
metallurgical engineering
metallurgical microscope
metamict substance
metamorphic cycle
metamorphic rock
metanil yellow
metaphorical meaning
metaphorical sense
metaphosphoric acid
metaphysical idealism
metaphysical poetry
metaphysico-
metastable state
metastatic inflammation
metastatic tumor
mete out
mete out to
meteor crater
meteor dust
meteor dust impacts
meteor shower
meteor swarm
meteor trail
meteor train
meteoric particles
meteoric shower
meteoric success
meteorological instrument
meteorological reconnaissance
meteorological tower
meter angle
meter fixer
meter maid
meter rate
meter relay
meter-ampere
meter-candle
meter-candle-second
meter-kilogram
meter-kilogram-second
meter-millimeter
meter-reading
metered mail
metes and bounds
meth-
methacrylate resin
methacrylic acid
methamphetamine hydrochloride
methane series
methanol alcohol
methodical signs
methoxy DDT
methoxy group
methoxy radical
methyl acetate
methyl alcohol
methyl aldehyde
methyl benzene
methyl blue
methyl bromide
methyl cellulose
methyl chloride
methyl chlorocarbonate
methyl chloroformate
methyl cyanide
methyl ester
methyl ether
methyl ethyl ketone
methyl green
methyl group
methyl isobutyl ketone
methyl methacrylate
methyl methane
methyl oleate
methyl orange
methyl phenol
methyl phenyl ether
methyl propyl ketone
methyl radical
methyl red
methyl rubber
methyl salicylate
methyl styryl ketone
methyl sulfate
methyl violet
methyl yellow
methyacetic acid
methyalted spirit
methyalted spirits
methyene azure
methyene blue
methyene chloride
methyene dichloride
methylene group
methylene iodide
methylene radical
methylidyne group
methylidyne radical
methylisobutenyl ketone
methylphenylcarbinyl acetate
methylrosaniline chloride
methylthionine chloride
methyltri-nitrobenzene
meticulous attention
meting out
metopon hydrochloride
met-
metre-candle
metre-kilogram-second
metric carat
metric centner
metric grain
metric hundredweight
metric space
metric system
metric ton
metric topology
metrical accent
metrical foot
metrical form
metrical group
metrical pattern
metrical psalm
metrical unit
metro-
metronome mark
metronomic mark
metropolitan area
metropolitan county
metropolitan district
meum et tuum
mew gull
mew up
mewling infant
mexican hairless
mexican spanish
mezankorrie moth
mezereon family
mezza voce
mezzanine floor
mezzanine floor
mezzanine story
mezzo forte
mezzo piano
mezzo staccato
mezzo-mezzo
mezzo-relievo
mezzo-relievo
mezzo-rilievi
mezzo-rilievo
mezzo-soprano
mezzo-soprano clef
mica condenser
mica diorite
mica schist
mice pea
mice pink
michaelmas daisy
miching malicho
mickey finn
mickey mouse
mickle-mouthed
mic1n o9p8y9r iilhlutm
micro biology
micro-aerophile
micro-aerophilic
micro-audiphone
micro-form
micro-instrumentation
micro-movie
micro-needle
micro-stress
microcosmic salt
microcytic anemia
microfilm plotter
microfilm reader
microfilm viewer
micrometer caliper
micrometer calliper
micrometer drum
micrometer gauge
micrometer head
micrometer screw
micrometrically precise
microscopic distinction
microwave diathermy
microwave diathermy machine
microwave height finder
microwave linear accelerator
microwave link
microwave mixer
microwave oven
microwave radar
microwave relay station
microwave spectroscope
microwave spectroscopy
microwave spectrum
mid air
mid gear
mid leg
mid mashie
mid off
mid position
mid spoon
mid wicket off
mid wicket on
mid-
mid-Victorian
mid-act
mid-age
mid-aged
mid-air
mid-arctic
mid-back
mid-block
mid-body
mid-breast
mid-career
mid-carpal
mid-central
mid-century
mid-channel
mid-chest
mid-continent
mid-course
mid-court
mid-crowd
mid-current
mid-diastolic
mid-dish
mid-distance
mid-earth
mid-eighteenth
middle-rate
middle-road
middle-shot wheel
middle-sized
middle-sizedness
middle-statured
middle-temperature error
middle-tone
middle-witted
middle-wooled
middling meat
middling well
middly blouse
midget golf
midget racer
midnight blue
midnight line
midnight sun
midrange speaker
midship oar
midshipman's hitch
midst of
midsummer daisy
midsummer day
midsummer madness
midsummer-men
midwall column
midwall shaft
midwife frog
midwife toad
midwing monoplane
might and main
might be
might of arms
might-be
might-have-been
mighty effort
mighty in battle
mighty like
mighty-brained
mighty-handed
mighty-minded
mighty-mouthed
mighty-spirited
mignonette family
mignonette green
mignonette lace
mignonette-vine
migrant laborer
migrant shrike
migrant worker
migration of ions
migration velocity
migratory bird
migratory laborer
migratory locust
migratory worker
mikado brown
mikado locomotive
mikado orange
mikado yellow
mike fright
mil-foot
mila a landi
milch cow
milch glass
milch-cow
mild alkali
mild as milk
mild as milk and water
mild as mother's milk
mild blushing goddess
mild mercurous chloride
mild mosaic
mild process
mild radical
mild silver protein
mild steel
mild-aired
mild-aspected
mild-blowing
mild-brewed
mild-cured
mild-eyed
mild-faced
mild-flavored
mild-looking
mild-mannered
mild-mooned
mild-savored
mild-scented
mild-seeming
mild-spirited
mild-spoken
mild-tempered
mild-tongued
mild-worded
mildew-proof
mildly radical
mile-ohm
mile-pound
mile-ton
mileage book
mileage ticket
miles glorious
miles per hour
miliary fever
military tuberculosis
military academy
military aircraft
military attache
military band
military camp
military campaign
military chaplain
military cloak
military court
military dictatorship
military engineer
military engineering
military establishment
military flight
military government
military governor
military honours
military insignia
military intelligence
military judge
military law
military man
military march
military mast
military medal
military medicine
military music
military obligation
military officer
military operation
military operations
military orchid
military pace
military pilot
military police
military police corps
military policeman
military reserves
military rocket
military school
military science
military service
military spirit
military step
military subdivision
military tactics
military top
military training
military transport
military unit
military-intelligence man
military-minded
militate against
milk a he-goat into a sieve
milk a scene
milk and honey
milk and water
milk bar
milk bench
milk brother
milk can
milk cart
milk checker
milk chocolate
milk cow
milk fever
milk float
milk glass
milk leg
milk of almonds
milk of bismuth
milk of human kindness
milk of magnesia
milk pail
milk powder
milk products
milk pudding
milk punch
milk purslane
milk route
milk run
milk shake
milk sherry
milk sickness
milk snake
milk stout
milk sugar
milk tester
milk the ram
milk thistle
milk toast
milk tooth
milk train
milk vetch
milk willow-herb
milk-and-water
milk-and-wateriness
milk-and-waterish
milk-and-waterism
milk-and-watery
milk-bearing
milk-blended
milk-borne
milk-breeding
milk-condensing
milk-cooling
milk-curdling
milk-drying
milk-faced
milk-fed
milk-giving
milk-hued
milk-livered
milk-punch
milk-tested
milk-testing
milk-toast
milk-tooth
milk-warm
milk-washed
milk-white
milk-yielding
milking machine
milking stool
milkweed butterfly
milkweed family
milkweed tortoise beetle
milkwort family
milky disease
milky way
milky way galaxy
mill agent
mill around
mill beetle
mill bill
mill cake
mill chisel
mill cinder
mill construction
mill end
mill engineer
mill engineering
mill fever
mill hole
mill outlet
mill run
mill saw
mill store
mill town
mill wheel
mill work
mill-dam
mill-headed
mill-ink
mill-lead
mill-leat
mill-pond
mill-post
mill-race
mill-rind
mill-round
mill-run
mill-sixpence
mill-type motor
mill-wheel
mille marin
milled soap
miller's thumb
miller's-thumb
millet disease
millet grass
millet seed
millet-seed rash
milli-
milligram-hour
milline rate
milling cutter
milling machine
millionth comparator
millstone around your neck
millstone bridge
millwright chisel
milo disease
milo maize
milo root rot
milori blue
milori green
milpa system
mime artist
mimeograph copy
mimic thrush
miminy-piminy
mimosa bark
mimosa family
mimosa-leaved
min min
mince it
mince pie
mince the truth
mince words
mince-pie
minced meat
minced pie
minced-pie
mincing horse
mincing steps
mind blindness
mind body
mind cure
mind deafness
mind like a blotter
mind like a sieve
mind of your own
mind out
mind overthrown
mind reader
mind reading
mind the store
mind unhinged
mind what you are about
mind what you are doing
mind your P's and Q's
mind your business
mind your manners
mind your own business
mind's core
mind's eye
mind-altering drug
mind-blind
mind-blindness
mind-blowing
mind-blowing drug
mind-body
mind-body problem
mind-boggler
mind-boggling
mind-changer
mind-changing
mind-curist
mind-expanding
mind-expanding drug
mind-expansion
mind-healer
mind-healing
mind-infected
mind-matter theory
mind-perplexing
mind-ravishing
mind-reader
mind-set
mind-sick
mind-stricken
mind-stuff theory
mind-torturing
mind-wrecking
mind-your-own-business
minded to
mindful of
mindful of others
mindless of
mine detector
mine examiner
mine host
mine layer
mine of information
mine of wealth
mine pig
mine ship
mine sweeper
mine thrower
mine work
mine-run
miner’s anemia
miner’s asthma
miner’s consumption
miner’s dial
miner's inch
miner's lamp
miner's lettuce
miner's lung
miner's phthisis
mineral acid
mineral black
mineral blue
mineral brown
mineral charcoal
mineral coal
mineral deposit
mineral dressing
mineral jelly
mineral kingdom
mineral oil
mineral pigment
mineral pitch
mineral processing
mineral resources
mineral salt
mineral science
mineral seal oil
mineral sperm oil
mineral spirits
mineral spring
mineral tallow
mineral tar
mineral water
mineral waters
mineral wax
mineral wool
mineral world
mineral-bearing material
mineralogical chemistry
ming tree
mingle with
mingle-mangle
mingle-mangleness
mingle-mangler
mini-
mini-specs
miniature camera
miniature golf
miniature painting
miniature photography
miniature pinscher
miniature poodle
miniature schnauzer
minie ball
minimal art
minimal pair
minimax theorem
minimum access programming
minimum flying speed
minimum free form
minimum lending rate
minimum thermometer
minimum wage
minimum-security prison
minimum-wage law
mining claim
mining engineer
mining engineering
mining geology
minion of the law
minister of music
minister of state
minister of the Gospel
minister plenipotentiary
minister resident
minister to
minister without portfolio
minister-general
ministering angel
ministering spirits
ministers resident
ministers without portfolios
mink frog
mink-ranching
minny bass
mino bird
minole-mangle
minor axis
minor basilica
minor canon
minor chord
minor coin
minor criticism
minor detail
minor details
minor element
minor in
minor interval
minor key
minor league
minor matter
minor mode
minor operation
minor operations
minor order
minor orders
minor party
minor penalty
minor piece
minor planet
minor poet
minor premise
minor premiss
minor role
minor scale
minor second
minor seminary
minor seventh chord
minor suit
minor surgery
minor tenace
minor term
minor triad
minor wrong
minor-league
minor-leaguer
minority carrier
minority group
minority interests
minority leader
minority opinion
minority position
minority prejudice
minority voice
minstrel show
minstrel song
mint bush
mint camphor
mint condition
mint family
mint geranium
mint julep
mint leaves
mint of money
mint sauce
mint stamp
minus acceleration
minus sight
minus sign
minus some buttons
minuscule script
minute attention
minute bell
minute book
minute drops
minute glass
minute gun
minute hand
minute man
minute mark
minute of arc
minute quantity
minute steak
minute thing
minute things
minuteness of detail
mio-
mirabile dictu
miracle drug
miracle drugs
miracle man
miracle play
miracle player
miracle wheat
miracle-breeding
miracle-proof
miracle-worker
miracle-working
pire down
pire dromble
pire duck
piriti palm
mirror carp
mirror image
mirror image, the
mirror of the mind
mirror symmetry
mirror writer
mirror writing
mirror-faced
mirror-writing
mirth-inspiring
mirth-loving
mirth-making
mirth-marring
mirth-moving
mirth-provoking
mis-
mis-aver
mis-censure
mis-center
mis-citation
mis-cite
mis-con
mis-copy
mis-cue
mis-eat
mis-enter
mis-entry
mis-event
mis-hallowed
mis-hear
mis-hearer
mis-heed
mis-hit
mis-hold
mis-humility
mis-lie
mis-mark
mis-meet
mis-pen
mis-rely
mis-say
mis-season
mis-seat
mis-see
mis-seek
mis-seem
mis-send
mis-sense
mis-serve
mis-set
mis-shape
mis-shapen
mis-sheathed
mis-ship
mis-shod
mis-sing
mis-solution
mis-sort
mis-sound
mis-space
mis-speak
mis-spell
mis-spend
mis-start
mis-state
mis-steer
mis-step
mis-stitch
mis-stop
mis-strike
mis-stroke
mis-style
mis-succeeding
mis-sue
mis-suit
mis-sway
mis-swear
mis-sworn
mis-tilled
mis-tune
mis-union
mis-word
misbehave yourself
miscarriage of justice
miscellaneous drugs
misch metal
mischief-loving
mischief-maker
mischief-making
mischief-working
mischio marble
misconduct yourself
misdemean yourself
mise en sc
mise-en-scene
mise-enscene
miserable lot
misery in the head
misfortune- difficulty
misfortune-proof
mish-mash
miso soup
miso-
misoshiru soup
misplaced modifier
misprision of felony
misprision of treason
misread the case
misread the situation
miss a cue
miss an opportunity
miss by a mile
miss fire
miss nothing
miss on the low side
miss out
miss stays
miss the boat
miss the bus
miss the chance
miss the mark
miss the market
miss the truth
miss your aim
miss your footing
miss your mooring
miss-fire
missa cantata
missal letter
missal stand
missel bird
missel thrush
missel tree
missel-bird
missel-thrush
missile engineer
missile engineering
missile guidance
missile man
missile program
missile project
missile research
missile science
missile technology
missile testing
missile warfare
missing link
mission accomplished
mission furniture
mission grass
missionaries apostolic
missionary alphabet
missionary apostolic
missionary position
missionary rector
missionary salesman
missionary weed
misspeak yourself
mist blue
mist concentrate sprayer
mist gray
mist-blotted
mist-blurred
mist-clad
mist-covered
mist-enshrouded
mist-exhaling
mist-impelling
mist-laden
mist-shrouded
mist-wet
mist-wreathe
mistle thrush
mistletoe bird
mistletoe cactus
mistress-piece
mistress-ship
misty rain
misty-eyed
misty-moisty
misunderstand one another
misuse of words
mitch board
mitch-board
miter box
miter box saw
miter cap
miter clamp
miter gear
miter jib
miter joint
miter saw
miter square
miter-clamped
miter-jointed
mitered jib
mitered sail
mithridate mustard
mitigating circumstances
mitis casting
mitis metal
mitral incompetence
mitral insufficiency
mitral stenosis
mitral valve
mitre block
mixture stop
mixy-maxy
mizzen-mast
mizzen royal
mizzen sail
mizzen skysail
mizzen stay
mizzen staysail
mizzen-royal brace
mizzen-royal lift
mizzen-royal mast
mizzen-royal stay
mizzen-royal staysail
mizzen-royal yard
mizzen-skysail brace
mizzen-skysail lift
mizzen-skysail mast
mizzen-skysail stay
mizzen-skysail yard
mizzen-topgallant brace
mizzen-topgallant lift
mizzen-topgallant mast
mizzen-topgallant sail
mizzen-topgallant stay
mizzen-topgallant staysail
mizzen-topgallant yard
mizzen-topmast
mizzen-topmast stay
mizzen-topmast staysail
mizzen-topsail lift
mizzen-topsail yard
mks units
mmHg
mnemonic device
mob law
mob rule
mob tactics
mob, the
mob-cap
mob-minded
mobile antenna
mobile call
mobile camera
mobile command post
mobile home
mobile library
mobile militia
mobile radio
mobile tactics
mobile trailer unit
mobile transmitter
mobile unit
mobile vulgus
mobile warfare
moccasin flower
moccasin plant
moccasin telegraph
mocha stone
mochi wood
mock chicken
mock court
mock danger
mock epic
mock mold
mock moon
mock orange
mock pendulum
mock pennyroyal
mock sun
mock turtle
mock turtle soup
mock up
mock-beggar
mock-bird
mock-heroic
mock-heroic poetry
mock-heroical
mock-heroically
mock-up
mockernut hickory
mockery of justice
mockery-proof
mocking-bird
mocking-stock
mod cons
mod suit
mod acrylic fiber
modal auxiliary
modal logic
mode Logic
mode beige
mode of expression
mode of operation
mode of procedure
mode of succession
mode of worship
mohair rug
mohawk weed
molts' scale
moire pattern
moist gangrene
moisten your whistle
moisture equivalent
moisture meter
moisture-absorbent
moisture-resistant
moko-moko
mol wt
molar conductance
molar conductivity
molar tooth
molar volume
molar weight
molasses grass
mold fungus
mold loft
mold of perfection
moldboard plow
molded base line
molded breadth
molded depth
molded displacement
molded draft
molded form
molded line
molded plastic
molded salad
molding board
molding book
molding compounds
molding edge
molding plane
moldy nose
mole catcher
mole crab
mole cricket
mole drain
mole drainage
mole drainer
mole fraction
mole gray
mole plow
mole rat
mole trap
mole-blind
mole-blindedly
mole-catching
mole-eyed
mole-head
mole-hill
mole-sighted
molecular beam
molecular biology
molecular distillation
molecular film
molecular formula
molecular heat
molecular mass
molecular physics
molecular ray
molecular sieve
molecular volume
molecular weight
moll hern
molluscum contagiosum
molluscum epitheliate
mollweide protection
molly maguire
molly washdish
molly-coddle
molotov cocktail
molybdenum steel
molybdenum trioxide
molybdic anhydride
molybdic oxide
moment of force
moment of inertia
moment of momentum
moment of stability
moment of truth
moment-area method
momentary success
momentary triumph
momentary-contact switch
momentum pump
momentum valve
mon cher
mon semblable
mon-
mon-khmer
monad deme
monaural system
monel metal
monesia bark
monetary arithmetic
monetary unit
money belt
money box
money broker
money changer
money changing
money chest
money clip
money cowry
money dealer
money dealing
money down
money getter
money going out
money illusion
money in hand
money market
money matter
money matters
money of account
money of necessity
money order
money player
money saver
money spider
money teller
money to burn
money wages
money's worth
money's-worth
money-bag
money-bloated
money-bound
money-box
money-breeding
money-changer
money-earning
money-getting
money-grasping
money-grub
money-grubbing
money-hungry
money-lender
money-loving
money-mad
money-maker
money-making
money-raising
money-saving
money-spelled
money-spinner
money-wort
moneyed capital
moneyed corporation
moneyed man
mong corn
mongolian idiot
mongoloid idiocy
mongoloid idiot
mongoose plant
monilia disease
monistic idealism
monitor bug
monitor chuck
monitor room
monitor screen
monitoring booth
monitory letter
monk bat
monk parrot
monk saki
monk's cloth
monk's pepper tree
monk's robe
monk's-hood
monk-fish
monkey apple
monkey around
monkey bag
monkey block
monkey bread
monkey bread tree
monkey bridge
monkey business
monkey dog
monkey fist
monkey flower
monkey forecastle
monkey foresail
monkey jacket
monkey link
monkey nut
monkey paw
monkey pinscher
monkey pole
monkey poop
monkey puzzle
monkey rail
monkey suit
monkey tail
monkey tricks
monkey with
monkey wrench
monkey's fist
monkey-ball
monkey-face
monkey-faced
monkey-faced owl
monkey-god
monkey-pot
monkey-rigged
monkey-tail valve
monkey-tailed
monkeying around
mono carpellary
mono carpic
mono carpous
mono cephalous
mono ceros
mono chord
mono clinal
mono clinic
mono clinous
mono cyclic
mono-
mono-ideic
mono-ideism
mono-ideistic
mono-iodo
mono-iodohydrin
mono-iodomethane
mono-ion
monoamine oxidase
monobasic sodium phosphate
monochloro-
monochloroacetic acid
monochromatic film
monochromatic illuminator
monoclinic system
monocytic leukemia
monoenergetic neutron
moon daisy
moon dog
moon goddess
moon goddesses
moon jelly
moon jellyfish
moon knife
moon letter
moon orbit
moon pillar
moon rat
moon ray
moon ship
moon station
moon-blanched
moon-blasted
moon-blasting
moon-blind
moon-born
moon-bright
moon-browed
moon-calf
moon-charmed
moon-crowned
moon-culminating
moon-dial
moon-eye
moon-eyed
moon-faced
moon-fern
moon-fish
moon-flower
moon-gathered
moon-gazing
moon-glittering
moon-god
moon-gray
moon-led
moon-loved
moon-mad
moon-made
moon-man
moon-raised
moon-shaped
moon-stricken
moon-struck
moon-taught
moon-tipped
moon-touched
moon-trodden
moon-white
moon-whitened
mooneye cisco
moonlight blue
moonlight flit
moonlight requisition
moonlight school
moonseed family
moor besom
moor blackbird
moor buzzard
moor cock
moor grass
moor hen
moor myrtle
moor-bred
moor-cock
moor-fowl
moor-hen
moor-pout
mooring buoy
mooring chock
mooring harness
mooring line
mooring mast
mooring pendant
mooring pennant
mooring rack
mooring screw
mooring shackle
mooring swivel
mooring telegraph
mooring tower
moose call
moose elm
moose fly
moose-ear
moose-misse
moot case
moot court
moot hall
moot point
moot-hill
moot-house
moot-stow
mootchie wood
mop and mow
mop bucket
mop pail
mop up
mop up the floor with
mop-up
mope-eyed
mopped up
mopper-up
moppers-up
mopping up
mopping-up
mopstick rail
mora hair
morainal drift
moral badness
moral censor
moral certainty
moral climate
moral code
moral courage
moral delinquency
moral excellence
moral faculty
moral fiber
moral flaw
moral goodness
moral hazard
moral insanity
moral lesson
moral obligation
moral of the story
moral philosophy
moral pollutedness
moral pollution
moral precept
moral principles
moral rectitude
moral rightness
moral sense
moral strength
moral support
moral theology
moral turpitude
moral victory
moral virtue
moral weakness
morality play
moralize upon
morally corrupt
morally polluted
morass ore
moray eel
morbid anatomy
morbid anxiety
morbid curiosity
morbid drive
morbid excitability
morbid growth
morbid psychology
morbid sensibility
morbidity rate
morbidly curious
morbidly sensitive
morbus Gallicus
mordant dye
mordant rouge
more and more
more dead than alive
more desirable
more dict
more distant
more frightened than hurt
more heat than light
more in sorrow than in anger
more or less
more sol
more suo
more than a match for
more than doubtful
more than enough
more than ever
more than expected
more than half
more than meets the ear
more than meets the eye
more than one
more than you bargained for
more than you can afford
more than you can tell
more truth than poetry
morgan le fay
morganatic marriage
moriche palm
morn star
morning after
morning campion
morning coat
morning devotions
morning dress
morning glory
morning glory seeds
morning loan
morning prayer
morning prayers
morning services
morning sickness
morning star
morning time
morning twilight
morning watch
morning-breathing
morning-bright
morning-colored
morning-gift
morning-glory
morning-glory family
morning-glory sphinx
morning-tide
morning-watch
morning-winged
mornings after
morocco leather
mororation in composition
morph-
morphemic analysis
morphine meconate
morpho-
morphologic construction
morphological analogy
morphological botany
morphological individual
morphophonemic analysis
morris chair
morris dance
morris tube
morris-dance
morris-pike
morro castle
morrow-mass
morrow-tide
morse code
mort d'ancestor
mort note
mortal blow
mortal fear
mortal flesh
mortal horror
mortal mind
mortal remains
mortal sin
mortal wound
mortality committee
mortality rate
mortality table
mortally ill
mortar and pestle
mortar barrage
mortar bed
mortar board
mortar boat
mortar fire
mortar ketch
mortar-board
mortgage bond
mortgage broker
mortgage company
mortgage deed
mortgage holder
mortgage points
mortgage shark
mortgage-holder
mortgaged to the hilt
mortgagee clause
mortification of the flesh
mortification root
mortify the flesh
mortify your flesh
mortify yourself
mortise and tenon joint
mortise block
mortise chisel
mortise gauge
mortise gear
mortise joint
mortise lock
mortise-and-tenon joint
mortuary roll
mortuum vadium
mosaic binding
mosaic bold
mosaic disease
mosaic dwarf
mosaic gold
mosaic work
mosaic-drawn
mosaic-floored
mosaic-paved
moschatel family
mosey along
mosey off
mosque swallow
mosquito bar
mosquito bee
mosquito boat
mosquito fleet
mosquito hawk
mosquito net
mosquito netting
mosquito-bitten
mosquito-bred
mosquito-free
moss agate
moss animal
moss campion
moss fern
moss green
moss pink
moss rose
moss stitch
moss-back
moss-backed
moss-begrown
moss-bordered
moss-bound
moss-brown
moss-clad
moss-covered
moss-crowned
moss-gray
moss-green
moss-grown
moss-hag
moss-inwoven
moss-lined
moss-trooper
moss-woven
mossy-backed
most admired disorder
most assuredly
most certainly
most distant
most frequently
most important
most likely
most often
most recent
most reverend
most significant digit
most unkindest cut of all
most, the
most-favored-nation clause
mot d'ordre
mot juste
mote nut
mote spoon
mote-hill
moth and rust
moth ball
moth bean
moth blight
moth mullein
moth-balled
moth-eat
moth-eaten
mother carey's chicken
mother cask
mother cell
mother complex
mother country
mother earth
mother figure
mother fixation
mother goose
mother hubbard
mother language
mother liquor
mother lode
mother love
mother naked
mother of coal
mother of dews
mother of pearl
mother of the Muses
mother of thyme
mother of vinegar
mother ship
mother spleenwort
motion-picture photography
motion-picture projector
motion-picture show
motion-picture theater
motionless torrents
motivating force
motivation research
motivational research
motive column
motive force
motive power
motive-monger
motive-mongering
motley color
motley fool
motley-minded
motmot blue
motmot green
moto-
motor abreaction
motor ambulance
motor aphasia
motor assembler
motor builder
motor bus
motor car
motor caravan
motor coach
motor corps
motor court
motor drive
motor generator
motor hotel
motor impulse
motor inn
motor launch
motor lodge
motor lorry
motor neuron
motor oil
motor paralysis
motor park
motor pool
motor scooter
motor ship
motor torpedo boat
motor truck
motor unit
motor van
motor vehicle
motor vessel
motor-camper
motor-camping
motor-driven
motor-generator
motor-generator servo
motor-man
motor-minded
motor-mindedness
motor-ship
motor-speed control system
motorcycle race
motorcycle saddle
motorized vehicle
motorized warfare
mots justes
mottle-leaf
mottle-leaf mosaic
mottled enamel
mottled-top disease
motto kiss
motu proprio
motuca fly
moubata bug
moudy-warp
mould-board
moulding board
moulding-board
mouldy fig
moulin a paroles
mound bird
mound builder
mound maker
mound making
mound-builder
mound-building
mount Pegasus
mount an attack
mount an offensive
mount guard
mount the barricades
mount the ladder of success
mount the throne
mount up to
mount your high horse
mountain accentor
mountain adder
mountain artillery
mountain ash
mountain avens
mountain beaver
mountain bluebird
mountain bluet
mountain bracken
mountain bunch grass
mountain camellia
mountain cat
mountain chain
mountain climber
mountain cranberry
mountain creeper
mountain currant
mountain damso
mountain devil
mountain dew
mountain ebony
mountain fern
mountain fetterbush
mountain fever
mountain flax
mountain fleece
mountain foxtail
mountain fringe
mountain goat
mountain gorilla
mountain gun
mountain heath
mountain hollow
mountain holly fern
mountain laurel
mountain lilac
mountain lion
mountain mahogany
mountain maker
mountain making
mountain man
mountain maple
mountain nymph
mountain oyster
mountain parsley
mountain range
mountain redtop
mountain rice
mountain rose
mountain rosebay
mountain sage
mountain sandwort
mountain sheep
mountain sickness
mountain spleenwort
mountain starwort
mountain tent
mountain time
mountain timothy
mountain viscacha
mountain wave
mountain whitefish
mountain wind
mountain wine
mountain-built
mountain-dwelling
mountain-girdled
mountain-green
mountain-high
mountain-loving
mountain-sick
mountain-walled
mounted infantryman
mounted police
mounted policeman
mounting medium
mounting-block
mourners' bench
mourning band
mourning cloak
mourning cloak butterfly
mourning dove
mourning garment
mourning iris
mourning ring
mourning warbler
mouse barley
mouse bloodwort
mouse deer
mouse grass
mouse gray
mouse opossum
mouse out
mouse pox
mouse-brown
mouse-color
mouse-colored
mouse-colour
mouse-deer
mouse-dun
mouse-ear
mouse-ear chickweed
mouse-ear cress
mouse-ear hawkweed
mouse-ear eared
mouse-eaten
mouse-gray
mouse-hole
mouse-hunt
mouse-killing
mouse-pea
mouse-still
mousetail grass
mousetrap switch
mousing hook
mousquetaire gloves
mousseline de laine
mousseline de soie
mousseline sauce
moustache cup
mouth bow
mouth breathing
mouth footed
mouth glue
mouth harp
mouth hole
mouth honor
mouth organ
mouth piece
mouth-filling
mouth-made
mouth-organ
mouth-to-mouth
mouth-to-mouth method
mouth-to-mouth resuscitation
mouth-watering
movable feast
movable type
movable-do system
move along
move apart
move around
move aside
move away
move back
move behind
move for
move forward
move heaven and earth
move in
move in a circle
move in a groove
move in a rut
move into
move off
move on
move out
move over
move quickly
move to action
move to the side
move with the times
move you to
move your fanny
move your tail
moveable feast
movement of air
movie actor
movie camera
movie film
movie house
movie star
movie theater
movie-goer
movie-minded
movies, the
moving apart
moving average
moving cause
moving cluster
moving picture
moving road
moving spirit
moving staircase
moving stairway
moving target indicator
moving toward
moving van
moving-coil galvanometer
moving-coil meter
moving-coil microphone
moving-coil speaker
moving-conductor microphone
moving-iron meter
moving-picture show
moving-picture theater
mow down
mow-burnt
mowing grass
mowing machine
mowrah butter
mowrah fat
mowrah oil
mowrah-seed oil
moyen-age
mrs grundy
mu meson
mu-meson
muc-
much acclaimed
much ado about nothing
much as
much at one
much cry and little wool
much esteemed
much obliged
much of a muchness
much the same
much to be desired
much to be regretted
much-admired
much-advertised
much-branched
much-coiled
much-containing
much-devouring
much-discussed
much-enduring
much-engrossed
much-honored
much-hunger
much-launed
much-loved
much-loving
much-mooted
much-pondering
much-praised
much-revered
much-sought
much-suffering
much-valued
much-worshiped
mucic acid
mucilage canal
mucilage cell
mucilage duct
muck about
muck around
muck bar
muck in
muck rolls
muck soil
muck up
muck-rake
muck-up
mucked up
mucking around
muckle hammer
muco-
mucoitin-sulphuric
mucoitinsulfuric acid
mucoso-
mucous colitis
mucous membrane
mucus body
mud bath
mud berth
mud dauber
mud drum
mud flat
mud heap
mud henmud house
mud house
mud lump
mud map
mud pie
mud pilot
mud pot
mud puddle
mud puppy
mud turtle
mud-bespattered
mud-built
mud-color
mud-colored
mud-exhausted
mud-fish
mud-lost
mud-roofed
mud-shot
mud-slinging
mud-splashed
mud-walled
muddle along
muddle away
muddle through
muddle-headed
muddle-minded
muddy-complexioned
muddy-mettled
mudslinging campaign
muermo family
muff coupling
muff your cue
muffin cap
muffin man
muffin pan
muffin turner
muffle color
muffle furnace
muffle kiln
muffle up
muffle-jaw
muffle-shaped
muffled drum
muffled drums
muffled tone
mug shot
mug up
mug-house
mug-up
mug-wet
muga moth
muga silk
muggy weather
mugho pine
muhammadan calendar
mui-tsai
muir ill
muir poot
mulatto jack
mulatto-wood
mulberry bird
mulberry family
mulberry wine
mulberry-faced
mulct law
mule armadillo
mule chair
mule chest
mule deer
mule skinner
mule spinning
mule train
mule-fat
mule-foot
mule-headed
mule-jenny
muley axle
muley cow
muley head
muley saw
mulga grass
mulier puisne
mulier younger
mull muslin
mull over
mullein dock
mullein foxglove
mullein pink
mullet hawk
mulligan stew
multi-
multi-colour
multi-jet
multi-ply
multi-prop
multi-scene control board
multiaxial joint
multiband antenna
multichannel analyser
multiflora rose
multigrid tube
multilateral symmetry
multilateral trade
multilinear form
multipath transmission
multiphase current
multiple algebra
multiple alleles
multiple allelism
multiple allelomorph
multiple circuit
multiple connection
multiple drill
multiple factor
multiple factors
multiple fission
multiple fruit
multiple image
multiple integral
multiple messages
multiple myeloma
multiple neuritis
multiple party system
multiple personality
multiple projector
multiple sclerosis
multiple series
multiple shop
multiple star
multiple store
multiple telegraph
multiple thread
multiple voting
multiple warhead
multiple-beam interferometer
multiple-choice
multiple-clutch
multiple-die
multiple-disk
multiple-disk clutch
multiple-dome
multiple-drill
multiple-feed closed loop
multiple-line
multiple-missile warhead
multiple-pass
multiple-series
multiple-speed
multiple-threaded
multiple-toothed
multiple-tuned
multiple-unit car
multiple-valued
multiplex circuit
multiplex receiver
multiplex telegraphy
multiplex transmission
multiplex tube
multiplication sign
multiplication table
multiplicative axiom
multiplicative group
multiplicative identity
multiplicative inverse
multiplier channels
multiplier phototube
multiply and replenish the earth
multiply by four
multiply by three
multiply by two
multiplying-glass
multipurpose plane
multipurpose tube
multistage flight
multistage rocket
multistep hydroplane
multivalent vaccine
multum in parvo
mum's the word
mumble-the-peg
mumblety-peg
mumbly-peg
mumbo jumbo
mumbo jumbos
mumbo-jumbo
mummy apple
mummy brown
mummy case
mummy chamber
mummy wheat
mummy-brown
mummy-cloth
mumping day
mumps meningitis
mundane astrology
mundane house
mung bean
municipal bond
municipal building
municipal corporation
municipal engineer
municipal securities
munition armor
munitions of war
munitions plant
mural coronet
mural crown
mural painting
murder en masse
murder the King's English
murder the Queen's English
murder wholesale
murder will out
murderous frenzy
murderous insanity
murexide reaction
murexide test
muriatic acid
murillo bark
murine opossum
murmur diphthong
murphy bed
murphy button
murrhine glass
mus b
muscae volitantes
muscle beach
muscle cell
muscle column
muscle fiber
muscle fibre
muscle in
muscle maker
muscle making
muscle man
muscle plasma
muscle power
muscle sense
muscle tissue
muscle-bound
muscle-bound between the ears
muscle-building
muscle-celled
muscle-kneading
muscle-tired
muscovy duck
muscul-
muscular disease
muscular dystrophy
musculo-
musculocutaneous nerve
muse on
muse on other things
muse over
muse upon
musette bag
museum beetle
museum piece
mush rot
mush through
mush up
mush-kinu
mushroom anchor
mushroom cloud
mushroom sauce
mushroom system
mushroom-colored
mushroom-grown
mushroom-shaped
music Muses
music arrangement
music box
music buff
music centre
music critic
music director
music division
music drama
music fan
music festival
music form
music hall
music in space
music lover
music lyre
music maker
music notation
music of the spheres
music paper
music passage
music patron
music patrons
music performance
music piece
music program
music roll
music room
music school
music score
music speech
music stand
music style
music theme
music theory
music wire
music-copying
music-drawing
music-flowing
music-footed
music-like
music-loving
music-mad
music-making
music-panting
music-stirring
music-tongued
musica falsa
musica ficta
musica mensurata
musical accent
musical box
musical chairs
musical comedy
musical copy
musical ear
musical flair
musical glasses
musical instrument
musical notation
musical note
musical ornament
musical part
musical passage
musical performance
musical phrase
musical piece
musical program
musical quality
musical revue
musical saw
musical scale
musical score
musical sense
musical sentence
musical sound
musical stage
musical suite
musical talent
musical theater
musical thought
musically inclined
musico-
musicogenic epilepsy
musing on the past
musique concr
musk ambrette
musk bag
musk deer
musk duck
musk hog
musk mallow
musk melon
musk orchid
musk ox
musk parrot
musk plant
musk rose
musk turtle
musk-cat
musk-cod
musk-deer
musk-duck
musk-ox
musk-rat
musk-root
musk-tree
musk-wood
muskeg moss
musket arrow
muskrat weed
muskus grass
muslin clipper
muslin delaine
musquash root
muss up
mussaenda coffee
mussed up
mussel bill
mussel crab
mussel-shell
must item
mustache cup
mustache monkey
mustang grape
mustard and cress
mustard beetle
mustard family
mustard gas
mustard greens
mustard oil
mustard plaster
mustard sauce
mustard seed
mustard-seed coal
muster courage
muster in
muster on
muster out
muster roll
muster up
muster your resources
muster-out
mustering out
mut dash
mutamur in illis
mutated form
mutation fox
mutation mink
mutation pressure
mutation stop
mutatis mutandis
mutato nomine
mute swan
mute witness
muted ecstasy
muth-labben
muto-
mutton bird
mutton cane
mutton chop
mutton chops
mutton grass
mutton snapper
mutton spanker
mutton tallow
mutton-chop
mutton-fish
mutton-head
mutton-legger
muttonchop whiskers
mutual admiration
mutual affinity
mutual agreement
mutual aid
mutual approach
mutual assistance
mutual attraction
mutual company
mutual concession
mutual fund
mutual impedance
mutual inductance
mutual induction
mutual insurance
mutual regard
mutual replacement
mutual repulsion
mutual savings bank
mutual support
mutual supportiveness
mutual transfer
mutual understanding
mutual-defense treaty
mutually approaching
muu-muu
muzzle ring
muzzle velocity
muzzle yourself
muzzle-loader
muzzle-loading
muzzy speech
my Angel-infancy
my Father's house
my boys
my burning youth
my craft and sullen art
my goodness
my green age
my humble self
my love
my nearest and dearest enemy
my stars
my word
my-
myall wood
myasthenia gravis
myc-
myceto-
myco-
mycobacterium paratuberculosis
mydas fly
myel-
myelin sheath
myelo-
myelogenous leukemia
myeloid leukemia
myna bird
mynad-minded
myo-
myocardial infarction
myocardial insufficiency
myoclonous epilepsy
myogen fibrin
myosin fibrin
myosotis blue
myovascular insufficiency
myrcia oil
myria-
myriad-leaf
myriad-leaves
myriad-minded
myricyl alcohol
myrio-
myristic acid
myrmec-
myrmeco-
myrobalan family
myrrh-tree
myrtle berry
myrtle bird
myrtle grass
myrtle green
myrtle-berry
myrtle-leaved
mystery clock
mystery grass
mystery of mysteries
mystery play
mystery religion
mystery story
mystery tour
mystical experience
mystical intuition
mystical theology
mystico-
mystico-allegoric
mystico-religious
mythical lore
mythical monster
mythical monsters
mythico-
mythico-historical
mythico-philosophical
mythico-romantic
nail-cutting
nail-head
nail-headed
nail-paring
nail-pierced
nail-shaped
nail-sick
nail-studded
nail-tailed
nailed down
nailer joist
nailhead rust
nailhead spar
nailhead spot
naive realism
nake-footed
naked as a jaybird
naked as a needle
naked as a worm
naked as my nail
naked as the day one was born
naked as the day you were born
naked eye
naked fact
naked floor
naked force
naked ladies
naked oat
naked singularity
naked smut
naked steel
naked to
naked-armed
naked-bladed
naked- eared
naked-eye
naked-eyed
naked-flowered
naked-fruited
naked-seeded
naked-stalked
naked-tailed
naldixic acid
namas kar
namby-pambical
namby-pambics
namby-pambies
namby-pambiness
narco-
narcotic injection
narcotic shot
narcotic stupor
narcotic trance
narcotico-acrid
narcotico-irritant
narcotics addict
narcotics agent
narcotics pusher
narcotics smuggling
narcotics traffic
nark it
narkul grass
narra amarilla
narra blanca
narra encarnada
narrative poem
narrative poetry
narrow boat
narrow brush
narrow down
narrow escape
narrow gauge
narrow house
narrow margin
narrow means
narrow place
narrow seas
narrow squeak
narrow sympathies
narrow the gap
narrow views
narrow-backed
narrow-billed
narrow-bladed
narrow-brained
narrow-breasted
narrow-celled
narrow-chested
narrow-crested
narrow-ended
narrow-eyed
narrow-faced
narrow-fisted
narrow-gage
narrow-gauge
narrow-gauged
narrow-guage
narrow-guaged
narrow-headed
narrow-hearted
narrow-hipped
narrow-jointed
narrow-laced
narrow-leaved
narrow-leaved oat grass
narrow-meshed
narrow-minded
narrow-mindedly
narrow-mindedness
narrow-mouthed
narrow-mouthed toad
narrow-necked
narrow-nosed
narrow-petaled
narrow-rimmed
narrow-seeded
narrow-shouldered
narrow-shouldred
narrow-skulled
narrow-souled
narrow-spirited
narrow-spiritedness
narrow-streeted
narrow-throated
narrow-toed
narrow-visioned
narrow-waisted
narrowing gap
nary one
nas-
nasal accent
nasal bone
nasal cavity
nasal concha
nasal discharge
nasal gleet
nasal index
nasal tone
nasal twang
nascent condition
nascent state
nash-gab
naso-
nasolacrimal duct
nastic movement
nasturtium family
nasturtium red
nasturtium yellow
nasty blow
nasty crack
nasty look
natal day
natch-bone
nation hood
nation-state
national accounting
national anthem
national assembly
national assistance
national bank
national bank note
national blue
national cemetery
national chairman
national church
national code
national convention
national debt
national economy
national emergency
national flag
national forest
national guard
national holiday
national honor
national income
national insurance
national language
national leader
national leadership
national literature
national militia
national monument
national newspaper
national park
national product
national school
national service
national socialism
national style
native Australian
native bear
native cleverness
native companion
native dextran
native environment
native land
native language
native metals
native millet
native mineral
native oak
native peach
native soil
native speaker
native speech
native tendency
native timothy
native to
native to the heath
native to the place
native to the soil
native tongue
native wit
native-born
native-born citizenship
native-bornness
natura non facit saltum
natural affection
natural aids
natural astrology
natural child
natural childbirth
natural classification
natural color
natural death
natural development
natural dye
natural dyestuff
natural endowment
natural fiber
natural gas
natural gender
natural geometry
natural gift
natural growth
natural harbor
natural hierarchy
natural history
natural idiot
natural immunity
natural impulse
natural instinct
natural language
natural law
natural levee
natural logarithm
natural magic
natural man
natural mineral
natural minor
natural number
natural person
natural philosopher
natural philosophy
natural politeness
natural radioactivity
natural realism
natural realist
natural religion
natural resources
natural right
natural rights
natural rubber
natural science
natural scientist
natural selection
natural state
natural tendency
natural theology
natural to
natural varnish
natural virtue
natural virtues
natural wit
natural world
natural-born
natural-born fool
naturalis possessio
naturalistic description
naturalistic fallacy
naturalistic humanism
naturalized citizen
naturalized citizenship
nature book
nature cure
nature deity
nature in the raw
nature myth
nature philosopher
nature philosophy
nature printing
nature spirit
nature strip
nature study
nature trail
nature worship
nature worshiper
nature's nobleman
nature-print
nature-printing
naughty child
naughty pack
naughty word
naught dance
naught girl
nautical chain
nautical day
nautical mile
naval academy
naval air station
naval aircraft
naval architecture
naval auxiliary
naval bomber
naval brass
naval cadet
naval college
naval combat
naval crown
naval engineer
naval fighter
naval forces
naval intelligence
naval interceptor
naval medicine
naval militia
naval mine
naval officer
naval operations
naval pilot
naval pipe
naval reserve
naval school
naval stores
naval vessel
naval vessels
naval warfare
naval-intelligence man
navel ill
navel orange
navel pipe
navel point
navel-shaped
navigable airspace
navigable river
navigable semicircle
navigate in space
navigating bridge
navigating bridge deck
navigating officer
navigation act
navigation and ranging
navigation light
navigation lights
navigation of empty space
navigation radius
navigation weir
navigational satellite
navigator's bubble
navigator-bombardier trainer
navy agent
navy bean
navy bill
navy blue
navy board
navy cross
navy cut
navy green
navy league
navy leaguer
navy man
navy plug
navy unit
navy yard
nay rather
nay-say
naya paisa
naye paise
ne exeat
ne plus ultra
ne'er a
ne'er a one
ne'er-do-well
ne'er-dos
ne-
neanderthal man
neap tide
near and far
near as the bark on a tree
near at hand
near beer
near by
near death
near duplicate
near east
near enough to
near future
near go
near hand
near likeness
near miss
near point
near relation
near rhyme
near side
near squeak
near the ground
near the limen of hearing
near the mark
near the surface
near the threshold of hearing
near the wind
near thing
near to
near upon
near your end
near your heart
near-
near-acquainted
near-adjoining
near-at-hand
near-blindness
near-bordering
near-by
near-colored
near-coming
near-dwelling
near-fighting
near-following
near-growing
near-guessed
near-hand
near-legged
near-miss
near-point
near-related
near-resembling
near-sight
near-sighted
near-silk
near-smiling
near-stored
near-threatening
near-touching
near-ushering
near-white
nearly die laughing
nearly duplicate
nearly duplicated
nearly replicate
nearly replicated
nearly reproduce
nearly reproduced
nearly the same
neat as a button
neat as a pin
neat as wax
neat house
neat line
neat price
neat profit
neat soap
neat weight
neat's foot
neat's leather
neat's tongue
neat's-foot oil
neat-ankled
neat-dressed
neat-faced
neat-fingered
neat-folded
neat-footed
neat-handed
neat-handedly
neat-handedness
neat-house
neat-limbed
neat-looking
neb-neb
nebula of Lyra
nebula of Orion
nebular hypothesis
nebulous stars
necessary condition
necessary stool
necessity money
necessity's sharp pinch
neck and crop
neck and heels
neck and neck
neck canal cell
neck cell
neck cord
neck deep
neck handkerchief
neck journal
neck molding
neck of the woods
neck or nothing
neck rot
neck strap
neck sweetbread
neck verse
neck yoke
neck-and-neck race
neck-band
neck-beef
neck-bone
neck-break
neck-breaking
neck-cracking
neck-deep
neck-fast
neck-high
neck-hole
neck-piece
neck-rein
neck-stretching
neck-tie
neck-verse
necklace orchid
necklace poplar
necklace tree
necktie party
necktie sociable
necr-
necrotic enteritis
necrotic inflammation
necrotic tissue
nectar bird
nectar of the gods
nectar-bearing
nectar-breathing
nectar-dropping
nectar-loving
nectar-secreting
nectar-seeking
nectar-spouting
nectar-streaming
nectar-tongued
need clarification
need doing
need explanation
need for
need must
need no explanation
need no prodding
need to
need translation
need-be
need-not
needle bath
needle beam
needle bearing
needle blight
needle bug
needle bush
needle cast
needle chervil
needle dam
needle diatom
needle file
needle fir
needle furze
needle girder
needle gorse
needle grass
needle grinder
needle grinding
needle gun
needle holder
needle ironstone
needle juniper
nemean lion
nemine contradicente
nemine dissentiente
nemo me impune lacessit
neo-
neo-Catholic
neo-Celtic
neo-Christianity
neo-Darwinian
neo-Darwinism
neo-Darwinist
neo-Gothic
neo-Greek
neo-Hippocratic medicine
neo-Plasticism
neo-Platonician
neo-Roman
neo-Sanskrit
neo-Sanskritic
neo-Scholastic
neo-Scholasticism
neo-Sogdian
neo-Sumerian
neo-Syriac
neo-Thomism
neo-classic
neo-classicist
neo-darwinian
neo-darwinism
neo-grammariian
neo-impressionism
neo-lamarckism
neo-orthodoxy
neo-scholastic
neo-scholasticism
neocolonialist threat
neocritical art
neofigural post surrealism
neofigural post surrealism
neolithic man
neon lamp
neon light
neon tetra
neon tube
neoothodox theology
neoprene rubber
neoza pine
nephelite-basanite
nerve-stretching
nerve-tingling
nerve-trying
nerve-winged
nerve-wracking
nerves of steel
nerves on edge
nervo-
nervous as a cat
nervous breakdown
nervous disorder
nervous exhaustion
nervous nellie
nervous prostration
nervous stomach
nervous strain
nervous system
nervous tension
nervous wreck
nest box
nest egg
nest fungus
nest of drawers
nest-building
nest-egg
nestle-cock
net area
net assets
net blotch
net domestic product
net earnings
net fixer
net income
net interest
net line
net national product
net necrosis
net pay
net plankton
net price
net profit
net receipts
net register ton
net register tonnage
net silk
net tare
net ton
net tonnage
neural axis
neural canal
neural cavity
neural crest fold
neural gland
neural groove
neural lamina
neural plate
neural process
neural shield
neural spine
neural tube
neuraminic acid
neuro-
neurocirculatory asthenia
neurogenic shock
neurological disease
neuromotor apparatus
neuron doctrine
neurotic disorder
neurotic personality
neurotic-depressive reaction
neuter passive
neuter verb
neutral acriflavine
neutral atom
neutral axis
neutral color
neutral corner
neutral ground
neutral monist
neutral point
neutral position
neutral red
neutral spirits
neutral territory
neutral tint
neutral zone
neutral-tinted
neutralist nation
neutro-
neutron bomb
neutron factory
neutron number
neutron reaction
neutron star
never a one
never be forgotten
never cease
never die
never end
never fear
never feel better
never finish
never forget
never free from
never hear the last of
never idle
never in all your born days
never in my life
never in the world
never let go
never let on
never mind
never nod
never on earth
never on time
never otherwise
never pass
never say die
never sleep
never so
never stoop
never to be erased from the mind
never to be forgotten
never to return
never touch
never-ceasing
never-ceasingly
never-certain
never-changing
never-conquered
never-constant
never-daunted
never-dead
never-dietree
never-dying
never-ended
never-ending
never-endingly
never-endingness
never-fading
never-failing
never-lasting
never-needed
never-never
never-never country
never-never land
never-quenching
never-ready
never-resting
never-resting thing called Time
never-satisfied
never-say-die
never-setting
never-shaken
never-silent
never-sleeping
never-smiling
never-stable
never-strike
never-swerving
never-tamed
never-tiring
never-to-be-equaled
never-trodden
never-twinkling
never-vacant
never-varied
never-varying
never-waning
never-wearied
never-winking
never-withering
new arrival
new beginning
new birth
new blue
new boy
new broom
new brutalism
new catholic edition
new church
new covenant
new critic
new criticism
new deal
new departure
new englander
new english bible
new ethical movement
new generation
new greek
new halfpenny
new hampshire
new hebrew
new high
new humanism
new issue
new latin
new lease on life
new life
new light
new look
new man
new math
new mathematics
new maths
new meaning
new mintage
new moon
new moon bob
new morality
new pence
new penny
new penny Brit
new phase
new philharmonic pitch
new planets
new realism
new sense
new slant
new style
new term
new testament
new theology
new thought
new to
new town
new twist
new wave
new wine
new wine in old bottles
new wool
new word
new world
new wrinkle
new year
new year's day
new yorker
new zealander
new-admitted
new-apparel
new-array
new-awaked
new-begotten
new-bladed
new-bloomed
new-blan
new-born
new-built
new-coined
new-come
new-create
new-cut
new-day
new-fallen
new-fashion
new-fashioned
new-fire method
new-fledged
new-found
new-front
new-furbish
new-furnish
new-grown
new-laid
new-light
new-looking
new-made
new-mint
new-minted
new-mintedness
new-model
new-modeler
new-mown
new-name
new-people
new-rich
new-rigged
new-risen
new-set
new-shaped
new-sprung
new-spun
new-written
new-wrought
new-year
newborn babe
newcastle disease
next best thing
next door
next door to
next friend
next in line
next life
next of kin
next to
next to nothing
next ways
next world
next-beside
next-door
next-door neighbor
nexus of cause and effect
nez perce
ngai camphor
ni-hard iron
ni-resist iron
nibbing plank
nibble at
nibble away
nibby-jibby
nice Nelly
nice body
nice distinction
nice ear
nice going
nice guy
nice nellie
nice piece of work
nice predicament
nice-Nellie
nice-Nellyism
nice-nelly
nice-nellyism
nicene creed
niceness of distinction
niche in the hall of fame
nicht wahr
nick of time
nick-eared
nick-nack
nickel acetate
nickel bloom
nickel bronze
nickel calciner
nickel carbonyl
nickel glance
nickel gray
nickel green
nickel gymnite
nickel monoxide
nickel ocher
nickel oxide
nickel plate
nickel protoxid
nickel sesquioxide
nickel silver
nickel steel
nickel tetracarbonyl
nickel-cadmium battery
nickel-iron accumulator
nickel-plate
nickel-plated
nickelic oxide
nickelous oxide
nicker nut
nicker tree
nicker-tree
nicotine addict
nicotine addiction
nicotine sulphate
nicotinic acid
nicotinic acid amide
nictitating membrane
nid-nod
iddle-noddle
iddy-noddy
ieve penitente
ievie-nievie-nick-nack
iff-naff
iff-naffy
iffy-naffy
iger oil
iger seed
iger bug
iger chaser
iger chub
iger daisy
iger heaven
iger pine
iger toe
igerhead cactus
igh about
igh by
nigh hand
nigh on
nigh onto
nigh side
nigh-destroyed
nigh-drowned
nigh-ebbed
nigh-hand
nigh-naked
nigh-past
nigh-spent
nigh adder
nigh and day
nigh ape
nigh bird
nigh blindness
nigh blue
nigh bolt
nigh cart
nigh chair
nigh clothes
nigh cloud
nigh club
nigh court
nigh crawler
nigh crow
nigh dancer
nigh dew
nigh dial
nigh editor
nigh effect
nigh emerald
nigh fighter
nigh fire
nigh flower
nigh green
nigh heron
nigh jasmine
nigh jessamine
nigh kaka
nigh key
nigh lamp
nigh latch
nigh letter
nigh life
nigh light
nigh line
nigh lizard
night-robe
night-robed
night-rolling
night-scented
night-season
night-shift
night-shining
night-shirt
night-singing
night-spell
night-straying
night-struck
night-swaying
night-swift
night-swollen
night-tide
night-time
night-traveling
night-tripping
night-veiled
night-walker
night-wandering
night-warbling
night-watch
night-watching
night-watchman
night-work
nightclub habitue
nightshade family
nighty-night
nigrosine spirit-soluble
nigrosine water-soluble
nigrospora cob rot
nihil ad rem
nihil album
nihil debet
nihil dicit
nihil ex nihilo
nihil habet
nihil obstat
nihilistic delusion
niku-bori
nil admirari
nil desperandum
nil nisi bonum
nil sine numine
nile green
nilly-willy
nilpotent algebra
nim tree
nimble mind
nimble will
nimble wit
nimble-eyed
nimble-feathered
nimble-fingered
nimble-footed
nimble-headed
nimble-heeled
nimble-jointed
nimble-mouthed
nimble-moving
nimble-pinioned
nimble-shifting
nimble-spirited
nimble-stepping
nimble-tongued
nimble-toothed
nimble-winged
nimble-witted
nimble-wittedness
nimbus cloud
niminy-pimininess
niminy-piminy
niminy-piminyism
nimmy-pimmy
nimonic alloy
nine days' wonder
nine o'clock
nine points of the law
nine-banded
nine-banded armadillo
nine-circled
nine-cornered
nine-day
nine-eyed
nine-eyed eel
nine-eyes
nine-foot
nine-hole
nine-holes
nine-hour
nine-inch
nine-jointed
nine-killer
nine-knot
nine-lived
nine-mile
nine-part
nine-part measure
nine-part time
nine-ply
nine-point
nine-point circle
nine-pound
nine-pounder
nine-power
nine-share
nine-shilling
nine-spined
nine-spined stickleback
nine-spot
nine-spotted
nine-syllabled
nine-tailed
nine-tenths
nine-voiced
nine-word
nine-year
ninepenny morris
ninepin block
nineteenth hole
nineteenth man
ninety-acre
ninety-day
ninety-day wonder
ninety-eight
ninety-eighth
ninety-fifth
ninety-first
ninety-five
ninety-four
ninety-fourth
ninety-hour
ninety-mile
ninety-nine
ninety-ninth
ninety-one
ninety-second
ninety-seven
ninety-seventh
ninety-six
ninety-sixth
ninety-third
ninety-three
ninety-ton
ninety-two
ninety-word
ninny-hammer
ninth chord
ninth cranial nerve
ninth-born
ninth-built
ninth-class
ninth-formed
ninth-hand
ninth-known
ninth-mentioned
ninth-rate
ninth-told
niobic acid
nip and tuck
nip at the heels of
nip in the bud
nip in the head
nip off
nip through
nip up
nip-up
nipa alcohol
nipa sugar
nipped at
nipped waist
nipper crab
nipperty-tipperty
nipping wind
nipple cactus
nippy wind
nirvana principle
nisi prius
nisi prius court
nisi-prius
nissen hut
nissuee trout
nit grass
nit-grass
nit-picking
niter cake
niter-blue
nitr-
nitramino group
nitramino radical
nitric acid
nitric bacteria
nitric bacterium
nitric ether
nitric oxide
nitride process
nitriding steel
nitrile base
nitrile rubber
nitro compound
nitro group
nitro powder
nitro radical
nitro-
nitro-cellulose
nitro-cotton
nitro-hydro-carbon
nitrogen balance
nitrogen chloride
nitrogen cycle
nitrogen dioxide
nitrogen equilibrium
nitrogen family
nitrogen fixation
nitrogen fixer
nitrogen iodide
nitrogen monoxide
nitrogen mustard
nitrogen narcosis
nitrogen oxide
nitrogen pentoxide
nitrogen peroxide
nitrogen tetroxide
nitrogen trioxide
nitrogen-fixing
nitrogen-free
nitrohydrochloric acid
nitros-
nitroso group
nitroso radical
nitroso-
nitrosyl chloride
nitrosylsulfuric acid
nitrous acid
nitrous bacteria
nitrous bacterium
nitrous ether
nitrous oxide
nitroxanthic acid
nitta tree
nitty-gritty
nitty-gritty, the
njave butter
njave oil
no alternative
no ball
no beauty
no better than she should be
no better than you should be
no buts about it
no catch
no chance
no charge
no chicken
no choice
no claim
no conjuror
no contest
no credit to
no depth
no dice
no difference
no doubt
no dumbbell
no ear
no end
no end of
no end of a fellow
no end to
no exit
no expectation
no fear
no few
no fine print
no fine print at the bottom
no flies on
no go
no great matter
no great shakes
no holds barred
no hope
no ifs
no ifs, ands, or buts
no joke
no joker
no joker in the deck
no kicker
no laughing matter
no less
no less than
no longer among us
no longer present
no longer with us
no love lost
no ma'am
no man
no man's land
no matter
no matter how
no matter what
no matter when
no matter which
no matter who
no mean
no mo
no modest violet
no more
no more and no less
no more beyond
no nearer
no nerves
no one
no onenobody
no other
no picnic
no place higher
no prize
no room for error
no room to swing a cat
no say
no scholar
no sir
no sirree
no skin off your back
no skin off your elbow
no skin off your nose
no slouch
no small print
no soap
no sooner said than done
no stranger to
no strings
no strings attached
no such a thing
nod assent
nod of assent
nod off
nod to
nod to its fall
nod to your fall
nodal point
nodding acceptance
nodding acquaintance
nodding cap
nodding lilac
nodding to its fall
nodding trillium
noddy tern
node house
node longitude
node of Ranvier
nodi-
nodical month
nodule disease
noise about
noise abroad
noise and shouting
noise factor
noise field intensity
noise figure
noise interference
noise limiter
noise pollution
noise suppressor
noise-canceling microphone
noiseless foot of Time
noisette brown
nol pros
nol-pros
nol-prossed
nol-prossing
nolens volens
noli me tangere
noli-me-tangere
noll-kholl
nolle prosequii
nolo contendere
nom de guerre
nom de plume
nom de theatre
nombril point
nomen nudum
nominal charge
nominal damages
nominal head
nominal partner
nominal price
nominal rate
nominal value
nominal wages
nominating convention
nomination borough
nomination in the race
nominative absolute
nominative of address
nomo-
noms de guerre
non avenu
non compos
non compos mentis
non est
non est inventus
non licet
non liquet
non nobis
non obst
non obstante
non placet
non plus
non plus ultra
non possumus
non pros
non prosequitur
non rep
non repetatur
non seq
non sequitur
non troppo
non ultra
non-
non-African
non-Alexandrian
non-American
non-Anglican
non-Arab
non-Arabic
non-Aryan
non-Asian
non-Asiatic
non-Attic
non-Bantu
non-Baptist
non-Biblical
non-Biblically
non-Bolshevik
non-Bolshevism
non-Bolshevist
non-Bolshevistic
non-Brahmanic
non-Brahmanical
non-Brahminic
non-Brahminical
non-British
non-Buddhist
non-Buddhistic
non-Calvinist
non-Calvinistic
non-Calvinistical
non-Catholic
non-Caucasian
non-Caucasic
non-Caucasoid
non-Celtic
non-Chaucerian
non-Chinese
non-Christian
non-Congregational
non-Congressional
non-Cymric
non-Czech
non-Czechoslovakian
non-Danish
non-Darwinian
non-Druid
non-Egyptian
non-English
non-Episcopalian
non-Euclidean
non-Euclidean geometry
non-European
non-Flemish
non-French
non-Gaelic
non-German
non-Germanic
non-Gothic
non-Gothically
non-Greek
non-Gypsies
non-Gypsy
non-Hamitic
non-Hebraic
non-Hebraically
non-Hellenic
non-Hibernian
non-Hindu
non-Homeric
non-Indian
non-Ionic
non-Irish
non-Islamic
non-Islamitic
non-Israelite
non-Israelitic
non-Israelitish
non-Italian
non-Italic
non-Japanese
non-Jew
non-Jewish
non-Kaffir
non-Latin
non-Lutheran
non-Magyar
non-Malay
non-Malayan
non-Malthusian
non-Mediterranean
non-Mendelian
non-Methodist
non-Methodistic
non-Mohammedan
non-Mongol
non-Mongolian
non-Mormon
non-Moslem
non-Moslems
non-Muhammadan
non-Muhammedan
non-Muslem
non-Muslems
non-Muslim
non-Muslims
non-Negritic
non-Negro
non-Negroes
non-Newtonian
non-Nicene
non-Nordic
non-Norman
non-Norse
non-Oscan
non-Parisian
non-Peruvian
non-Polish
non-Portuguese
non-Presbyterian
non-Protestant
non-Prussian
non-Quaker
non-Quakerish
non-Roman
non-Russian
non-Sabbatic
non-Sabbatical
non-Sabbatically
non-Sanskritic
non-Saxon
non-Scandinavian
non-Semite
non-Semitic
non-Shakespearean
non-Shakespearian
non-Slavic
non-Spanish
non-Spartan
non-Stoic
non-Swedish
non-Swiss
non-Syrian
non-Tartar
non-Teuton
non-Teutonic
non-Trinitarian
non-Turk
non-Turkic
non-Turkish
non-Tuscan
non-U
non-Ukrainian
non-Umbrian
non-Unitarian
non-Uralian
non-Vedic
non-Venetian
non-Virginian
non-Welsh
non-White
non-Zionist
non-ability
non-access
non-appearance
non-arcking
non-assumpsit
non-attendance
non-claim
non-co-operate
non-co-operation
non-co-operationist
non-co-operative
non-co-operator
non-co-ordination
non-coll
non-collegiate
non-com
non-combatant
non-commissioned
non-committal
non-communicant
non-compounder
non-con
non-condensing
non-conductor
non-contagion
non-content
non-contradiction
non-effective
non-efficient
non-ego
non-elect
non-electric
non-ens
non-essential
non-euclidean
non-existence
non-existent
non-feasance
non-gremial
non-importation
non-intercourse
non-interference
non-intervention
non-intrusion
non-iron
non-joinder
non-jurant
non-juring
non-jury
non-literate
non-member
non-metal
non-moral
non-natty
non-natural
non-necessity
non-noble
non-obedience
non-payment
non-performance
non-placet
non-proficiency
non-profit-making
non-pros
non-prosequitur
non-prossed
non-prossing
non-recoiling
non-reduction
non-regent
non-regulation
non-residence
non-resident
non-residential
non-resistance
non-resistant
non-society
non-striker
non-subscriber
non-substantial
non-tenure
non-term
non-union
non-user
non-vascular
nona-
nonaction calligraphist
nonaction calligraphy
nonaggression pact
nonalcoholic beverage
nonaligned nation
nonanoic acid
nonapparent easement
nonapparent servitude
nonassessable mutual
nonassessable stock
noncallable bond
noncallable securities
noncanonical writings
nonce word
nonce, the
nonchord tone
nonco-operation
nonco-operationist
nonco-operator
noncommissioned officer
noncommutative algebra
noncondensing engine
noncontingent existence
noncontingent free will
noncritical mass
nondestructive testing
nondirectional antenna
nondirectional microphone
nondirective therapy
nondischarge of debts
nondrying oil
none else
none of your business
none other
none to spare
none too soon
none-so-pretties
none-so-pretty
nonfat dry milk
nonfat milk
nonfiction prose
nonfiction writer
nonfilterable virus
nonforfeiture benefit
nonforfeiture law
nonforfeiture value
nonfunctional addition
nongraded school
nonharmonic tone
nonionic detergent
nonlinear calibrations
nonlinear system
nonliving matter
nonmalignant tumor
nonmaterial culture
nonmedical therapist
nonmedical therapy
nonmember bank
nonnative citizen
nonnegotiable bond
nonnegotiable demand
nonnuclear weapons
nonny-nonny
nonordained persons
nonorganic matter
nonpartisan ballot
nonpartisan election
nonpartisan primary
nonprescription drug
nonprone to disease
nonproneness to disease
nonprovided school
nonre-eligibility
nonre-eligible
nonrestrictive clause
nonreversible reaction
nonsanctioned behavior
nonscheduled airline
nonself-governing
nonsense talk
nonsense verse
nonsex-linked
nonsinusoidal circuit
nonskid tire
nonspecific immunity
nonspecific therapy
nonspore-forming
nonstandard language
nonstandard speech
nonsusceptibility to disease
nonsusceptible to disease
nontransferable vote
nontuple time
nonunion shop
nonvalue bill
nonverbal communication
nonvintage wine
nonviolent change
nonviolent protest
nonviolent resistance
nonvolatile oil
nonvoting stock
nonyl alcohol
noodle-head
noogoora bur
nook shaft
nook-shotten
noon-light
noonday light
noonday night
noontide light
nor flesh
nor good red herring
nor nee
nor yet
nor'-west
nor'-wester
nor-
nor-noreast
norfolk howard
norfolk jacket
norm of perfection
normal atom
normal axis
normal barrage
normal curve
normal distribution
normal divisor
normal equivalent deviate
normal landing
normal load
normal loop
normal magnification
normal matrix
normal orthogonal
normal pentane
normal pitch
normal saline solution
normal school
normal series
normal spin
normal tax
normal unemployment
normalized text
norman architecture
norman-french
normative system
normed conjugate
normed space
north about
north briton
north by east
north by west
north celestial pole
north country
north germanic
north mark
north pole
north sea
north shore
north side
north star
north wind
north-countriness
north-countryman
north-east
north-easter
north-easterly
north-eastern
north-eastward
north-end
north-following
north-light
north-north-east
north-north-west
north-north-west
north-northeast
north-northeastward
north-northeastwardly
north-northeastwards
north-northwest
north-northwestward
north-northwestwardly
north-northwestwards
north-polar
north-preceding
north-seeking
north-sider
north-west
north-wester
north-westerly
north-western
north-westward
northeast by east
northeast by north
northeast storm
nose turret
nose up
nose wheel
nose-bag
nose-band
nose-belled
nose-bleed
nose-dive
nose-dived
nose-diving
nose-dove
nose-grown
nose-heavy
nose-high
nose-leafed
nose-led
nose-nippers
nose-piece
nose-piercing
nose-pipe
nose-pulled
nose-ring
nose-shy
nose-smart
nose-thirl
nose-thumbing
nose-tickling
nose-up
nose-wise
nosee-um
nosegay tree
nosewheel undercarriage
nosey Parker
nosh-up
noso-
nostalgia for the past
nosy Parker
nosy parker
not a Chinaman's chance
not a bad idea
not a bit
not a bit alike
not a bit of difference
not a bit of it
not a blessed one
not a blessed soul
not a breath of air
not a chance
not a dream
not a few
not a hint
not a jot
not a jot or tittle
not a leaf stirring
not a lick
not a lick or smell
not a little
not a mite
not a one
not a particle
not a patch on
not a pin to choose
not a prayer
not a scrap
not a shadow of a suspicion
not a single one
not a single person
not a smidgen
not a smitch
not a snowball's chance in hell
not a soul
not a speck
not a stitch
not a stitch to your back
not a stitch to your name
not a suspicion
not a trace
not a whit
not abide
not absolutely
not accept
not accept compromise
not accept defeat
not accomplish
not accord with
not add up
not admit
not affordable
not agree
not all there
not allow
not allow yourself to believe
not allowed
not amiss
not amount to a damn
not amount to a hill of beans
not amount to anything
not an illusion
not an iota
not another peep out of you
not another word
not answer
not anticipate
not anticipated
not any
not appreciate
not approach
not approve
not as young as you used to be
not at all
not at any price
not at issue
not attend
not back down
not bad
not bargain for
not bat an eye
not bat an eyelash
not be a bit surprised
not be able
not be able to abide
not be able to account for
not be able to bear
not be able to dispense with
not be able to do without
not be able to down
not be able to endure
not be able to say much for
not be able to sit down
not be able to stand still
not be able to swallow
not be able to abide
not be affected by
not be all there
not be at home to
not be behindhand
not be born yesterday
not be caught flatfooted
not be content with
not be entitled to
not be found
not be good for
not be in existence
not be in it
not be in pigtails
not be in your right mind
not be likely
not be met with
not be on speakers
not be on speaking terms
not be on time
not be ready
not be right in the head
not be surprised
not be taken in by
not be too visible
not be up to
not be versed
not be with it
not bear
not bear inspection
not bear with
not beat about the bush
not believe
not believe your ears
not believe your eyes
not believe your senses
not believed
not blink an eye
not boggle at anything
not born yesterday
not breathe
not breathe a word
not bright
not brook
not budge
not budge an inch
not butt in
not buy
not by a damn sight
not by a darn sight
not by a long chalk
not by a long shot
not by a long sight
not by any means
not care
not care a damn
not care a straw about
not care for
not care if you do
not care much for
not care to
not catching
not change
not charmed
not choke on
not come
not come amiss
not come near
not come off
not come to grips with
not come to the point
not come up to
not come up to expectation
not come up to par
not come up to scratch
not come up to the mark
not coming
not comparable
not comparable to
not compare
not compare with
not comply
not comprehensively
not concern
not condone
not conform
not connect with
not consent
not consider
not considerate
not considered
not convey anything
not cost anything
not count
not count the cost
not countenance
not counting
not crack a smile
not cricket
not cry over spilled milk
not cut it
not cut out for
not cut the mustard
not dare to show your face
not deep
not deep enough to float a match
not deny
not deserving belief
not destroy
not do
not do by halves
not do justice to
not done
not dry behind the ears
not easy
not eat
not either
not endanger
not endure
not enough
not enough to count
not enough to matter
not enter your head
not enter your mind
not equal to
not ever
not exhaustively
not exist
not expect
not expend
not expose yourself
not face up to
not fail
not fair
not fall for
not far
not far from
not far off
not fast
not feel like
not feel like anything
not figure
not fill the bill
not find it in your heart to
not find your way to first base
not firm
not fit for man or beast
not fit for mixed company
not fit to be seen
not fit to drink
not fit to eat
not flag
not flinch from
not following
not for attribution
not for love or money
not for publication
not for release
not for the life of me
not for the record
not for the world
not foresee
not forget
not found
not gag on
not get all choked up over
not get along
not get involved
not get involved in
not get off base
not get out of line
not get to first base
not give
not give a damn
not give a damn about
not give a dime a dozen for
not give a hoot
not give a hoot for
not give a shit
not give a shit for
not give a thought to
not give away
not give it a second thought
not give it another thought
not give two hoots for
not give up
not give up the ship
not go along with
not go for
not go off the deep end
not go on all fours with
not go out on a limb
not go too far
not good enough
not guesswork
not guilty
not hack it
not half
not half a chance
not half bad
not half of
not hard
not hard to look at
not hardly
not harken
not have
not have a Chinaman's chance
not have a chance
not have a dry thread
not have a leg to stand on
not have a moment to spare
not have a penny
not have a prayer
not have a sou
not have a word to say
not have all your buttons
not have all your marbles
not have any part of
not have anything to do with
not have idea one
not have it
not have it in one
not have the first idea
not have the foggiest
not have the heart
not have the heart to
not have the knack
not have the least idea
not have the remotest idea
not have the stomach for
not have the stomach to
not have time
not having all one's marbles
not having any
not hear a word
not hear of
not heed
not held against one
not held against you
not here
not hesitate
not hesitate to
not hold a candle to
not hold back
not hold it against one
not hold it against you
not hold together
not hold up
not hold up in the wash
not hold water
not hold with
not hold your breath
not if I can help it
not if I know it
not if you can help it
not implicate
not imply
not in donkey’s years
not in error
not in it
not in keeping with
not in residence
not in the habit of
not in the least
not in the mood
not in the picture
not in the same street with
not in your right mind
not included
not infrequently
not interfere
not involve
not involve yourself
not keep
not keep faith with
not kid yourself
not know
not know any better
not know any of the answers
not know beans
not know chalk from cheese
not know from A to B
not know from Adam
not know how
not know someone from Adam
not know the first thing about
not know the half of it
not know the score
not know the time of day
not know the way home
not know up from down
not know what it is all about
not know what o'clock it is
not know what to make of
not know what you are about
not know what's what
not know when to stop
not know when you are beaten
not know where you stand
not know which way is up
not know which way to turn
not know your interest
not know your own mind
not known
not kosher
not leave a leg to stand on
not let a word escape one
not let a word escape you
not let go
not let it get you down
not let it go further
not let out a peep
not lift a finger
not lift a hand
not like
not likely
not listen
not live to eat
not live up to expectation
not long ago
not look back
not look backward
not look for
not look like
not lose a moment
not lose sight of
not lying down
not make an issue of
not make any difference
not make head or tail of
not make heads or tails of
not make it
not make out
not make sense
not make static
not make the course
not make the grade
not make waves
not many
not matter
not matter to
not mean a thing
not measure up
not measure up to expectation
not measuring up
not meddle
not meddle with
not meriting belief
not mince words
not mind
not mind if you do
not mind your business
not miss a trick
not move a foot
not moving
not much
not much for looks
not much of a bargain
not much to boast of
not much to look at
not nearly
not new
not notice
not observe
not occur
not of the earth
not of this world
not often
not on speaking terms
not on the job
not on your life
not one
not open your mouth
not opinion
not oppose
not outstanding
not overlook a bet
not pass
not pass muster
not pay
not penetrate
not perfect
not permit
not permitted
not play fair
not possible
not present
not pretend to say
not proceed with
not proved
not proven
not pull fair
not pull your punches
not pursue with
not put a foot wrong
not put it past
not put up with
not qualify
not quite
not quite right
not rare
not reach
not reach to
not real
not realize your expectations
not really
not receive
not refuse
not register
not relate to
not relax
not relax your concern
not remember
not resemble
not resist
not respect
not respectable
not rest
not right
not right in the head
not rightly know
not ring any bells
not ring true
not rock the boat
not say 'boo'
not say a word
not see
not see an inch beyond your nose
not see beyond your nose
not see the wood for the trees
not seldom
not show up
not shrink from
not shut your eyes
not signify
not singular
not slacken
not sleep a wink
not so
not so bad
not so dumb
not so many
not so much
not so you could tell it
not spare the horses
not speak well of
not square
not square with
not stand a chance
not stand for
not stand on ceremony
not stand up
not standard
not stick your neck out
not stir
not stir a step
not stomach
not stop to think
not stretch
not strike your colors
not subject to call
not submit
not suffer
not suffice
not surprised
not swallow
not sweat it
not take
not take 'no' for an answer
not take care of
not take it as a joke
not take kindly to
not take lying down
not take upon yourself to say
not tamper
not tell
not tell apart
not tell one from the other
not that sort
not that you know
not that you would know it
not the half of
not the same
not the same thing at all
not the thing
not the type
not there
not think
not think much of
not think of
not to be believed
not to be borne
not to be changed
not to be compared
not to be compared with
not to be deflected
not to be depended on
not to be depended upon
not to be despised
not to be distinguished
not to be endured
not to be expected
not to be had
not to be had at any price
not to be had for love or money
not to be handled without gloves
not to be improved
not to be minuted
not to be mistaken
not to be moved
not to be overlooked
not to be quoted
not to be recommended
not to be relied on
not to be relied upon
not to be shaken
not to be sneezed at
not to be thought of
not to be trifled with
not to be trusted
not to get a thing out of
not to lift a hand
not to mention
not to mince the matter
not to mince words
not to the purpose
not to your taste
not tolerate
not too bad
not touch
not touch with a ten-foot pole
not trouble your head about
not trouble your head with
not trouble yourself with
not true
not true to
not turn a hair
not turn the other cheek
not turning over
not understand
not unlike
not up to
not up to expectation
not up to sample
not up to scratch
not up to snuff
not up to specification
not up to standard
not up to your hopes
not use
not use up
not used
not utter a word
not vital
not wait for an invitation
not wait to be asked
not want any part of
not war
not wash
not waste
not weaken
not well-founded
not what it is cracked up to be
not what you used to be
not willing to hear of
not with it
not within the memory of man
not words but action
not work
not worth a continental
not worth a damn
not worth a rap
not worth a thought
not worth a whoop
not worth having
not worth mentioning
not worth saving
not worth speaking of
not worth the candle
not worth the pains
not worth the powder and shot
not worthwhile
not write off
not yield an inch
not your cup of tea
not your sort
not yourself
not-
not-being
not-delivery
not-ephemeral
not-good
not-living
not-out
not-self
not-soul
not-under-command lights
nota bene
notaries public
notarized statement
notary public
notch block
notch-lobed
notched-leaved
note broker
note discounting
note down
note of alarm
note of explanation
note of hand
note paper
note row
note shaver
note shaving
note value
note well
note-blind
note-blindness
note-book
note-holder
note-paper
note-perfect
notes inegales
notes of a scale
nothing at all
nothing doing
nothing else
nothing else but
nothing if not critical
nothing in excess
nothing in particular
nothing like
nothing loath
nothing more
nothing of the kind
nothing of the sort
nothing off
nothing on earth
nothing special
nothing to boast of
nothing to brag about
nothing to do with
nothing to do with the case
nothing to hide
nothing to it
nothing to say about
nothing to signify
nothing to speak of
nothing to the left
nothing to the right
nothing to think twice about
nothing to write home about
nothing under the sun
nothing whatever
nothing worth speaking of
notice board
notions counter
nōt-
nought beside
noughts and crosses
noughts-and-crosses
noun clause
noun determiner
noun equivalent
noun phrase
nourish in your bosom
nouveau riche
nouveau roman
nouveau roturier
nouveau-riche
nouvelle cuisine
nouvelle vague
nouvelles vagues
novel idea
novel maker
novel of character
novel of ideas
novel of incident
novel of manners
novel of sensibility
novel of the soil
novel reader
novel writer
novel-crazed
novel-making
nuclear bomb
nuclear chemistry
nuclear cross section
nuclear electron
nuclear energy
nuclear engineer
nuclear envelope
nuclear explosive
nuclear family
nuclear fission
nuclear force
nuclear fuel
nuclear furnace
nuclear fusion
nuclear isomer
nuclear isomerism
nuclear magnetic resonance
nuclear magneton
nuclear particle
nuclear physicist
nuclear physics
nuclear power
nuclear power plant
nuclear radiation
nuclear rays
nuclear reaction
nuclear reactor
nuclear resonance
nuclear submarine
nuclear warhead
nuclear weapons
nuclear-powered ship
nuclear-powered submarine
nucleic acid
nuclein base
nucleo-
nucleon number
nucleus counter
nude painting
nudi-
nudum pactum
nugi-
nuisance ground
nuisance tax
nuisance value
null and void
null hypothesis
null method
null sequence
null-manifold
nulla bona
nulla-nulla
nulli secundus
nullius filius
nullius juris
numb-fish
number admit
number among
number field
number five iron
number four iron
number four wood
number line
number lottery
number nine iron
number off
number one
number one iron
number one wood
number opera
number plate
number present
number seven iron
number six iron
number system
number theory
number three wood
number two
number two iron
number two wood
number work
numbered with the dead
numbers game
numbers pool
numbers racket
numbers runner
numdah rug
numeric data
numerical analysis
numerical aperture
numerical control
numerical forecasting
numerical weather prediction
numerous as the sands
numerous as the stars
nummulitic limestone
nun buoy
nun moth
nun's cloth
nun's fiddle
nun's veiling
nun-bird
nun-buoy
nunc dimitris
nuncupative will
nunny bag
nuptial apartment
nuptial bond
nuptial knot
nuptial mass
nuptial plumage
nuptial song
nuptial tie
nurse an idea
nurse balloon
nurse cell
nurse child
nurse crop
nurse frog
nurse mother
nurse resentment
nurse shark
nurse tree
nurse your revenge
nurse's aide
nurse-child
nurse-father
nurse-mother
nurse-tree
nursery cannon
nursery rhyme
nursery school
nursery school child
nursery slopes
nursery stakes
nursery stock
nursery tale
nurses' station
nursing bottle
nursing father
nursing foot
nursing home
nursing mother
nursing sister
nurture a belief
nurture a feeling
nurture an idea
nurture the hope
nut bone
nut bread
nut brown
nut buoy
nut coal
nut crab
nut dash
nut grass
nut margarine
nut oil
nut palm
nut pine
nut quad
nut rush
nut sedge
nut to crack
nut weevil
nut-brown
nut-crack
nut-cracker
nut-cracking
nut-gall
nut-gathering
nut-grass
nut-hook
nut-oil
nut-shaped
nut-shelling
nut-sweet
nut-tapper
nut-toasting
nut-tree
nut-weevil
nutgall oak
nutmeg apple
nutmeg bird
nutmeg butter
nutmeg family
nutmeg flower
nutmeg geranium
nutmeg grater
nutmeg hickory
nutmeg liver
nutmeg melon
nutmeg oil
nutmeg pigeon
nutrient ratio
nutritional disease
nutritive ratio
nutritive value
nuts about
nuts and bolts
nuts on
nuts over
nutty as a fruitcake
nutty-brown
nutty-flavored
nutty-looking
nux vomica
nycti-
nycto-
nylon carpeting
nylon string
nymph pink
o gauge
o k
o-
o-o
o-o-a-a
o-os
oak apple
oak bark
oak beauty
oak blight
oak brown
oak button
oak canker
oak chestnut
oak family
oak fern
oak fly
oak fungus
oak gall
oak green
oak leaf
oak leaf cluster
oak leather
oak moss
oak nut
oak of Dodona
oak pruner
oak tag
oak thistle
oak toad
oak tree
oak veneer
oak wart
oak wilt
oak-apple
oak-beamed
oak-boarded
oak-clad
oak-cleaving thunderbolts
oak-covered
oak-crested
oak-crowned
oak-leaf brown
oak-leaf cluster
oak-leaved
oak-paneled
oak-tanned
oak-timbered
oak-tree
oak-tree money
oak-wainscoted
oar feather
oar-footed
oast house
oast-house
oast-houses
oat bread
oat cleaner
oat field
oat flour
oat grass
oat grinder
oat huller
oat kiln
oat mill
oat sheller
oat thistle
oat thresher
oat-bearing
oat-cake
oat-crushing
oat-fed
oat-growing
oat-producing
oat-shaped
oaten reed
oath breaker
oath breaking
oath helper
oath of allegiance
oath of office
oath of secrecy
oath purgatory
oath suppletory
oath-bound
oath-breaking
oath-despising
oath-detesting
oath-making
oatlike bent grass
oatlike grass
oatmeal cookie
oatseed bird
ob-
obeah doctor
obesity diet
obey the rules
obey your impulse
obispo pine
obiter dicta
obiter dictum
object ball
object case
object glass
object in mind
object language
object lens
object lesson
object libido
object matter
object of art
object of compassion
object of note
object of pity
object of your affections
object program
object space
object speculum
object staff
object teaching
object to
object-glass
object-matter
objectionable person
objective behavior
objective case
objective complement
objective correlative
objective existence
objective genitive
objective idealism
objective point
objective predicate
objective prism
objective relativism
objective relativist
objective spirit
objective truth
objectively true
objectivn objectless preposition
objet d'art
objet d-art
objet trouv
objets d'art
oblate spheroid
oblation cloth
obligate yourself
obliged to
oblique angle
oblique case
oblique circular cone
oblique circular cylinder
oblique coordinates
oblique figure
oblique line
oblique motion
oblique narration
oblique sailing
oblique section
oblique speech
oblique-angled
oblique-fire
obliquity of the ecliptic
obliterative inflammation
oblong-acuminate
oblong-cordate
oblong-cylindric
oblong-elliptic
oblong-elliptical
oblong-falcate
oblong-hastate
oblong-lanceolate
oblong-leaved
oblong-linear
oblong-ovate
oblong-ovoid
oblong-spatulate
oblong-triangular
oblong-wedgeshaped
obnoxious person
oboe d'amore
oboe da caccia
obscene language
obscene literature
obscure darkness
obscurum per obscurius
obsequent stream
observable behavior
observation balloon
observation car
observation flight
observation kite
observation mine
observation plane
observation platform
observation point
observation post
observation squadron
observation tower
observation train
observatory on the moon
observatory outlook
observe etiquette
observe protocol
observe the
observe the Golden Rule
observe the formalities
observe the proprieties
observe with a fine-toothed comb
obsess the mind
obsessed by
obsessional neurosis
obsessive compulsion
obsessive-compulsive neurosis
obsessive-compulsive reaction
obsidional coin
obsolete securities
obstacle course
obstacle race
obstacle racer
occupational disease
occupational hazard
occupational neurosis
occupational psychology
occupational school
occupational therapy
occupy a certain position
occupy a post
occupy the attention
occupy the chair
occupy the mind
occupy the mind with
occupy the thoughts
occupy the thoughts with
occupy time
occupy your time
occupy yourself
occupy yourself with
occur often
occur periodically
occur to
occur to your mind
ocean basin
ocean bed
ocean bottom
ocean breeze
ocean bug
ocean depths
ocean floor
ocean front
ocean green
ocean greyhound
ocean lane
ocean liner
ocean main
ocean marine insurance
ocean nymph
ocean of emptiness
ocean perch
ocean pout
ocean racer
ocean sea
ocean spray
ocean sunfish
ocean trade
ocean tramp
ocean travel
ocean trip
ocean zone
ocean-born
ocean-borne
ocean-carrying
ocean-compassed
ocean-flooded
ocean-girdled
ocean-going
ocean-going tug
ocean-guarded
ocean-rocked
ocean-severed
ocean-skirted
ocean-smelling
ocean-spanning
ocean-sundered
ocean-wide
oceanic island
oceanographic research ship
ocellated turkey
ocelli-
ocher brown
ocher orange
ocher red
ocher-brown
ocher-colored
ocher-red
ocher-yellow
ochr-el-guerche
ochro-
oct-
octa-
ocatadecanoic acid
octagon scale
octahedron group
octal base
octal notation
octal system
octane number
octane rating
octanedioic acid
octave coupler
octave flute
octave scale
octave species
octet theory
octo-
ocetyl alcohol
odonto-
odontoid process
odor of sanctity
odour of sanctity
odylic force
oedipus complex
oeil-de-boeuf
oeils-de-boeuf
oenanthic ester
oenanthic ether
oeno-
oesophago-
oestrous cycle
of Nassau
of Preston
of a certain age
of a certainty
of a kind
of a low order of importance
of a mind to
of a piece
of a place
of a size
of a sort
of a sudden
of a truth
of age
of all descriptions
of all kinds
of all manner of colors
of all misery
of all shapes
of all sorts
of all the colors of the rainbow
of all things
of all types
of all work
of another sort
of any description
of any kind
of any sort
of bad faith
of behavior
of choice
of cleanly habits
of common ancestry
of common descent
of common occurrence
of common source
of common stock
of concern
of concernment
of consequence
of consummate art
of counsel
of course
of design
of different orders
of doubt
of easy virtue
of evil portent
of fatal omen
of feeling
of few words
of fiction
of full age
of general application
of general utility
of gentle blood
of good breed
of good cheer
of good comfort
of good credit
of good hope
of good omen
of good physique
of gourmet quality
of great cost
of great price
of happy portent
of heart
of help
of ill omen
of importance
of interest
of itself
of kin
of language
of late
of like mind
of little brain
of little consequence
of little importance
of long duration
of long standing
of loose morals
of many words
of mark
of marriageable age
of moment
of necessity
of no account
of no avail
of no concern
of no consequence
of no earthly use
of no effect
of no force
of no great importance
of no importance
of no matter
of no purpose
of no significance
of no use
of note
of old
of one accord
of one mind
of one piece
of opposite polarity
of other times
of powerful physique
of preference
of promise
of quality
of rank
of record
of ripe age
of sentiment
of service
of set purpose
of significance
of small importance
of small number
of sorts
of soul
of sound mind
of that ilk
of that kind
of that sort
of the best
of the best sort
of the blood
of the clock
of the cloth
of the dead
of the deepest
deeper of the deepest
dyed of the deepest
dye of the deepest
dyed of the earth
dyed of the essence
dyed of the faith
dyed of the first magnitude
dyed of the first rank
dyed of the first water
dyed of the folk
dyed of the highest type
dyed of the old school
dyed of the same hue
dyed of the same kidney
dyed of the same mind
dyed of the same stripe
dyed of the true faith
dyed of the war party
dyed of two minds
dyed of unsound mind
dyed of use
dyed of value
dyed of vital importance
dyed of weight
dyed of yesterday
dyed of yore
dyed of your own
dyed of your own accord
dyed of your own choice
dyed of your own free will
dyed of your own volition
dyed of-
dyed of-door
dyed of-fact
dyed of-the-moment
dyed off Broadway
dyed off and on
dyed off base
dyed off chance
dyed off colour
dyed off cut
dyed off day
dyed off duty
dyed off guard
dyed off in the clouds
dyed off in the upper story
dyed off in your reckoning
of dyed off key
off limits
off line
off market
off note
off of
off on
off pat
off plumb
off season
off side
off soundings
off stage
off stump
off the air
off the beam
off the beaten track
off the course
off the cuff
off the field
off the ground
off the heading
off the hinges
off the hip
off the hook
off the old block
off the rails
off the record
off the reel
off the shelf
off the subject
off the top of the head
off the top of your head
off the track
off the trolley
off the vertical
off the wall
off the wind
off white
off with
off with you
off work
off year
off you go
off your beat
off your chump
off your feed
off your guard
off your hands
off your head
off your nut
off your rocker
off your trolley
off-
off-Broadway
off-balance
off-base
off-bear
off-bearer
off-bitten
off-board
off-break
off-cast
off-center
off-centered
off-centre
off-chance
off-color
off-colored
off-corn
off-cutting
off-drive
off-fall
off-falling
off-flavor
off-flow
off-glide
off-go
off-guard
off-hand
off-handed
off-hit
off-hitting
off-hour
off-key
off-licence
off-license
off-limits
off-line
off-load
off-loading
off-look
off-lying
off-mike
off-off-Broadway
off-peak
off-pitch
off-put
off-putting
off-reckoning
off-season
off-setting
off-shaving
off-shed
off-sider
off-sloping
off-sorts
off-stage
off-standing
off-street
off-taking
off-the-cuff
off-the-face
off-the-peg
off-the-record
off-the-wall
off-thrown
off-time
off-tone
off-turning
off-wheel
off-wheeler
off-white
off-year
off-year election
offend against the law
offend the ear
offend the eye
offend the nostrils
offense to the nostrils
offensive lineman
offensive load
offensive odor
offensive strategy
offensive to ears polite
offensive to gentle ears
offensive warfare
offer a good prospect
offer a prayer
offer a resolution
offer as a plea
offer at a bargain
offer bait to
offer excuse for
offer for sale
offer in defense
offer in exchange
offer itself
offer of marriage
offer of parley
offer price
offer resistance
offer sacrifice
offer thanks
offer the expectation
offer to buy
offer to the public
offer up
offer up an oblation
offer your compliments
offer your congratulations
offer your felicitations
offer yourself
offered price
offering no delight
offering price
offertory hymn
offertory sentence
offertory veil
offhand position
offhand shot
official residence
office bearer
office block
office boy
office building
office copy
office fixture
office force
office found
office furniture
office girl
office hours
office hunter
office lawyer
office lock
office manager
office practice
office premium
office seeker
office temporary
office worker
office-bearer
ohmic resistance
oil and vinegar
oil asphalt
oil bath
oil beetle
oil box
oil burner
oil bushing
oil cake
oil camp
oil can
oil cellar
oil circuit breaker
oil color
oil column
oil cup
oil derrick
oil distiller
oil drill
oil drum
oil engine
oil extractor
oil feeder
oil field
oil fuel
oil furnace
oil gas
oil gauge
oil gilding
oil gland
oil green
oil groove
oil gun
oil heat
oil heater
oil heating
oil lamp
oil land
oil meal
oil mill
oil milling
oil mold
oil nut
oil of almonds
oil of ben
oil of cade
oil of catechumens
oil of mirbane
oil-colour
oil-containing
oil-cooled
oil-dispensing
oil-distributing
oil-driven
oil-electric
oil-fed
oil-filled
oil-finding
oil-finished
oil-fired
oil-forming
oil-fueled
oil-gas tar
oil-gilding
oil-harden
oil-hardened steel
oil-hardening
oil-heat
oil-heated
oil-insulated
oil-laden
oil-lit
oil-mill
oil-nut
oil-plant
oil-producing
oil-pumping
oil-refining
oil-regulating
oil-saving
oil-seal
oil-secretion
oil-seed
oil-smelling
oil-soaked
oil-temper
oil-tempered
oil-testing
oil-thickening
oil-tongued
oil-tree
oil-yielding
oilcloth knife
oiled silk
oilsplot glaze
oily calm
oily-brown
oily-looking
oily-smooth
oily-tongued
oino-
oticica oil
oka cheese
okie-doke
okle-dokle
old Adam
old age
old age pension
old amethyst
old as Adam
old as Methuselah
old as history
old as the hills
old as time
old bach
old bachelor
old bag
old battle-ax
old believer
old bird
old blue
old boy
old boy network
old bulgarian
old campaigner
old catholic
old cedar
old chap
old chat
old christmas
old church slavonic
old clothes
old clothes man
old clothing
old codger
old country
old country, the
old covenant
old crock
old crony
old dame
old days
old dodo
old dog
old duffer
old english
old english sheepdog
old enough to know better
old face
old fart
old fellow
old field
old fogey
old fogy
old folks' home
old french
old fud
old fustic
old geezer
old gent
old gentleman
old girl
old glory
old goat
old gold
old granny
old guard
old hand
old hat
old hen
old high german
old ionic
old ivory
old joke
old lady
old liner
old maid
old man
old man's beard
old master
old moon
old nick
old nobility
old norse
old order
old paper
old party
old person
old poop
old pro
old prussian
old red
old river
old rose
old salt
old saw
old saxon
old school
old school tie
old sea dog
old sledge
old soldier
old soldiers' home
old song
old squaw
old stager
old story
old style
old talk
old testament
old times
old trot
old turkey
old welsh
old wheeze
old wife
old witch grass
old wives' tale
old woman
old world
old-age
old-age and survivors insurance
old-age assistance
old-age insurance
old-age pension
old-age pensioner
old-aged
old-bachelorish
old-bachelorship
old-boyish
old-clothesman
old-country
old-established
old-faced
old-fangled
old-farrand
old-farrandlike
old-fashion
old-fashionedly
old-fashionedness
old-field birch
old-field dove
old-field lark
old-field pine
old-fogeydom
old-fogeyish
old-fogy
old-fogydom
old-fogyish
old-fogyishness
old-fogyism
old-gathered
old-gentlemanly
old-gold
old-growing
old-ivory
old-ladyhood
old-line
old-line company
old-liner
old-looking
old-maid
old-maidenish
old-maidish
old-maidishness
old-maidism
old-man cactus
old-man fern
old-man's-beard
old-new
old-rose
old-school
old-sighted
old-sightedness
old-squaw
old-standing
old-style
old-time
old-time country music
old-time religion
old-timer
old-timey
old-timey music
old-timeliness
old-timy
old-wifely
old-wifish
old-womanish
olive dun
olive family
olive fly
olive gnat
olive gray
olive green
olive gum
olive knot
olive mangrove
olive nut
olive oil
olive ore
olive plant
olive plum
olive quill
olive scab
olive scale
olive shell
olive tubercle
olive yellow
olive-backed
olive-backed thrush
olive-bordered
olive-branch
olive-brown
olive-cheeked
olive-clad
olive-colored
olive-complexioned
olive-drab
olive-drab shirt
olive-green
olive-greenish
olive-growing
olive-kernel oil
olive-oil castile soap
olive-pale
olive-shaded
olive-shadowed
olive-sided
olive-sided flycatcher
olive-skinned
olive-tree agaric
olive-wood
olivine-andesite
olivine-basalt
olla podrida
olla-podrida
on a minuscule scale
on a par
on a reach
on a rock
on a slant
on a small scale
on a stretch
on a string
on a sudden
on a sudden impulse
on a treadmill
on account
on account of
on account of this
on account of what
on account of which
on all accounts
on all counts
on all fours
on all fours with
on all hands
on all sides
on all tongues
on amicable terms
on an easy bowline
on an even keel
on an infinitesimal scale
on and off
on and on
on approval
on bad terms
on bail
on balance
on base
on bedrock
on behalf of
on bended knee
on board
on board ship
on budget terms
on call
on center
on chosen
on cloud nine
on condition
on condition that
on consignment
on credit
on deck
on demand
on deposit
on dit
on divers occasions
on draft
on dry land
on duty
on eagle's wings
on earth
on easy terms
on edge
on end
on equal terms
on even ground
on even terms
on every hand
on every side
on everyone's lips
on everyone's tongue
on faith
on familiar terms
on file
on fire
on foot
on footback
on friendly terms
on furlough
on good terms
on guard
on hand
on hands and knees
on her beam-ends
on her own bottom
on high
on hire
on holiday
on horseback
on ice
on impulse
on instinct
on intimate terms
on its beam-ends
on its side
on key
on land
on leash
on leave
on line
on live
on loan
on no account
on no condition
on no occasion
on occasion
on offer
on one
on one occasion
on one side
on one's beam-ends
on one's hands and knees
on one's last legs
on one's uppers
on order
on pain of
on paper
on parole
on passage
on penalty of
on pension
on pins and needles
on principle
on probation
on purpose
on reconsideration
on record
on relief
on route to
on sabbatical leave
on schedule
on second thought
on security
on shank’s mare
on shank’s pony
on shipboard
on ships
on short commons
on short notice
on side
on sight
on slippery ground
on solid ground
on soundings
on speaking terms
on stilts
on stream
on sufferance
on sure ground
on tap
on tenterhooks
on terms
on terms of equality
on terra firma
on that account
on that ground
on that occasion
on the
on the Book
on the agenda
on the air
on the alert
on the anvil
on the anxious bench
on the anxious seat
on the assumption that
on the attack
on the average
on the back of
on the ball
on the bare possibility
on the barricades
on the bash
on the beach
on the beam
on the beam's ends
on the beam-ends
on the beat
on the beaten track
on the bench
on the berth
on the bias
on the blink
on the block
on the boards
on the books
on the borderline
on the bounce
on the brain
on the brink
on the brink of
on the bum
on the button
on the calendar
on the cards
on the carpet
on the chance
on the cheap
on the coattails of
on the confines of
on the contrary
on the course
on the crest
on the crest of the wave
on the critical list
on the cuff
on the decline
on the defensive
on the descendant
on the docket
on the dole
on the dot
on the double
on the double-quick
on the downgrade
on the downward track
on the earth
on the edge
on the edge of
on the edge of tears
on the eve of
on the evidence
on the face of
on the face of it
on the face of the earth
on the face of the globe
on the fence
on the fire
on the flank of
on the floor
on the fly
on the fritz
on the gad
on the go
on the good side of
on the ground
on the heading
on the heel and toe
on the high road
on the high road to
on the high seas
on the high side
on the hip
on the hoof
on the hook
on the hop
on the horizon
on the horns of a dilemma
on the house
on the in with
on the increase
on the instant
on the jar
on the job
on the jump
on the knees of the gods
on the knocker
on the lam
on the lap of the gods
on the left
on the level
on the lift
on the lines of
on the lookout
on the lookout for
on the loose
on the low side
on the make
on the march
on the mark
on the market
on the mend
on the minute
on the model of
on the money
on the move
on the nail
on the nod
on the nose
on the off chance
on the offensive
on the order of
on the other hand
on the outs
on the outs with
on the outside
on the pad
on the parish
on the part of
on the peak
on the pinnacle
on the point
on the point of
on the present occasion
on the qt
on the quiet
on the rack
on the ragged edge
on the razor's edge
on the rebound
on the receiving end
on the return
on the right
on the right scent
on the right side of
on the right track
on the rise
on the road
on the road to
on the rocks
on the run
on the safe side
on the same footing
on the same level
on the same old round
on the same plane
on the scent of
on the score of
on the shady side
on the shady side of
on the shelf
on the shelves
on the shoulders of
on the sick list
on the side
on the skids
on the skirts of
on the sly
on the spot
on the spur of the moment
on the square
on the stage
on the stick
on the stocks
on the straight
on the streets
on the strength of
on the subject of
on the summit
on the supposition that
on the surface
on the table
on the take
on the tapis
on the throne
on the tip of your tongue
on the top
on the town
on the track of
on the trail of
on the tramp
on the turn
on the up-and-up
on the upbeat
on the upgrade
on the upswing
on the verge
on the verge of
on the wagon
on the wane
on the watch
on the watch for
on the water cart
on the water wagon
on the way
on the way to
on the whole
on the wind
on the wing
on the wrong
on the wrong tack
on thin ice
on this account
on this side of the grave
on tick
on time
on tippytoe
on tiptoe
on to
on top
on top of
on top of the heap
on top of the roost
on top of the world
on tour
on trial
on trust
on vacation
on velvet
on view
on visiting terms
on welfare
on what account
on what occasion
on wheels
on which
on which occasion
on your
on your back
on your beam-ends
on your belly
on your bended knees
on your coattails
on your deathbed
on your feet
on your guard
on your hands
on your head
on your high horse
on your hind legs
on your hunkers
on your knees
on your last legs
on your legs
on your mark
on your marrowbones
on your mettle
on your mind
on your nose
on your own
on your own account
on your own ground
on your own hook
on your own initiative
on your own responsibility
on your own say-so
on your own time
on your shitlist
on your toes
on your travels
on your uppers
on your way
on your word
on your word of honor
on-
one at a time
one bone and one flesh
one by one
one can assume
one cheer more
one day
one dem'd horrid grind
one fifth
one fine day
one fine morning
one flesh
one for all
one for the book
one for the road
one fourth
one half
one hoss shay
one hundred thousand
one in a million
one in a thousand
one in a way
one in ten thousand
one leg
one man
one mind
one o'clock
one of the people
one of these days
one of us
one old cat
one or two
one small difficulty
one thing leads to another
one thing nor the other
one thing to another
one time
one touch of nature
one up
one up on
one voice
one vote
one's adieus
one's all
one's ancestors
one's best
one's best effort
one's best endeavor
one's betters
one's blind side
one's crowd
one's damndest
one's darndest
one's days are numbered
one's disposal
one's doom is sealed
one's due
one's fathers
one's heels
one's hour is come
one's level best
one's mouth
one's move
one's native ground
one's native heath
one's native place
one's number is up
one's own choice
one's own discretion
one's own initiative
one's own man
one's own sweet time
one's own will
one's race is run
one's say
one's set
one's turn
one's two cents' worth
one's utmost
one's worth
one-a-cat
one-act
one-acter
one-and-a-half
one-armed
one-armed bandit
one-base hit
one-berry
one-blade
one-bladed
one-buttoned
one-by-one
one-celled
one-chambered
one-class
one-classer
one-colored
one-nerved
one-night
one-night stand
one-nighter
one-o'clock
one-off
one-one
one-party rule
one-party system
one-petaled
one-piece
one-piece suit
one-piecer
one-pipe
one-pipe furnace
one-point
one-point perspective
one-pope
one-pound
one-pounder
one-price
one-quarter
one-rail
one-reeler
one-ribbed
one-roomed
one-seater
one-seeded
one-sepaled
one-septate
one-shot
one-sided
one-sidedly
one-sidedness
one-spot
one-star general
one-step
one-step rocket
one-storied
one-story
one-striper
one-term
one-third
one-time
one-to-one
one-toed
one-track
one-track mind
one-two
one-two punch
one-up
one-upmanship
one-valued
one-way
one-way communication
one-way ticket
one-way trip
one-windowed
one-winged
one-word
one-year
oneiro-
one's self
onga-onga
onglette file
onion couch
onion dome
onion flute
onion fly
onion foot
onion louse
onion maggot
onion mildew
onion red
onion roll
onion salt
onion sauce
onion set
onion smudge
onion smut
onion structure
onion twitch
onion-eyed
onionskin pink
oniro-
onium compound
onization potential
only a few
only a step
only choice
only have eyes for
only human
only if
only just
only not
only now and then
only occasionally
only once
only think
only too
only when necessary
only when the spirit moves
only yesterday
only-begotten
onomato-
onomatopoeic word
onshore breeze
ont-
onto-
ontological argument
ontological proof
ontrary to expectation
onus probandi
onward and upward
onward course
onyx marble
oo-
oo-la-la
oolastema filament
oop cit
ooze leather
ooze out
op art
op artist
op cit
op-
opal blue
opal glass
opal gray
opal matrix
opal-tinted
opaline green
opaque color
opaque context
opaque projector
open Pandora's box
open a can of worms
open a show
open a show cold
open account
open aerial
open air
open an account with
open an offensive
open and aboveboard
open arms
open as day
open book
open chain
open circuit
open city
open classroom school
open cluster
open communion
open conflict
open country
open couplet
open court
open cut
open day
open discussion
open door
open enemy
open enrollment
open field
open fire
open for discussion
open forum
open game
open hand
open hand knot
open heart
open her up
open hostilities
open house
open housing
open into
open juncture
open letter
open mandate
open market
open market operations
open mind
open one's mouth
open order
open policy
open position
open primary
open quarrel
open question
open road, the
open rupture
open secret
open sentence
open sequence
open sesame
open shop
open sight
open space
open sphere
open stock
open string
open syllable
open system
open the
open the door to
open the draft
open the eyes
open the eyes to
open the floodgates
open the light
open the lock
open the mind
open the possibility of
open the purse
open the sluices
open the throttle
open the way
open the way for
open throttle
open time
open to
open to all
open to criticism
open to doubt
open to error
open to question
open to reproach
open to solution
open to suspicion
open to the public
open to view
open trailer
open union
open up
open up on
open up the possibility of
open verdict
open waggon
open war
open warfare
open wound
open your big fat mouth
open your big mouth
open your eyes
open your eyes to
open your lips
open your mind to
open your mouth
open-air
open-air theater
open-airish
open-airishness
open-airism
open-airness
open-and-shut
open-and-shut case
open-armed
open-armedly
open-back
open-back press
open-backed
open-bill
open-bladed
open-breasted
open-caisson
open-chested
open-circuit
open-coil
open-countenanced
open-crib
open-cribbed
open-door
open-door policy
open-doored
open-eared
open-end
open-end bond
open-end fund
open-end investment company
open-end wrench
open-ended
open-endedness
open-eyed
open-eyedly
open-face
open-face sandwich
open-faced
open-field
open-fire
open-flowered
open-frame girder
open-front
open-fronted
open-frontedness
open-gaited
open-grained
open-handed
open-handedly
open-headed
open-heart surgery
open-hearted
open-heartedly
open-heartedness
open-hearth
open-hearth furnace
open-hearth process
open-hearthed
open-housed
open-housedness
open-housing
open-joint
open-jointed
open-kettle
open-kneed
open-letter
open-letter proof
open-lined
open-market
open-minded
open-mindedly
open-mindedness
open-mouthed
open-mouthedly
open-mouthedness
open-newel
open-newel stair
open-pan
open-patterned
open-phase
open-phase relay
open-pit
open-pitted
open-plan
open-pollinated
open-reel
open-roofed
open-rounded
open-sand
open-sequence system
open-shelf
open-shelter-deck vessel
open-shelved
open-shop
open-sided
open-sidedly
open-sidedness
open-sleeved
open-spaced
open-spacedly
open-spacedness
open-spoken
open-spokenly
open-spokenness
open-tank
open-tide
open-timber
open-timber roof
open-timbered
open-timbre
open-top
open-topped
open-view
open-visaged
open-weave
open-web
open-webbed
open-webbedness
open-well
open-windowed
open-windowedness
open-work
open-worked
opencast mining
opening bit
opening die
opening gun
opening move
opening price
opening time
opening up
openness to sensation
openness to sight
openside planer
opposite camp
opposite number
opposite poles
opposite prompt
opposite prompt side
opposite sex
opposite side
opposite tide
opposite to
opposite-leaved
opposition
opposition party
opposition to change
opposition voice
oppression of spirit
opera bouffe
opera comique
opsonic immunity
opsonic index
opsonic therapy
opsonocytophagic test
opt for
opt out
opt out of society
optic axis
optic chiasm
optic disc
optic disk
optic nerve
optic neuritis
optic thalamus
optical activity
optical air mass
optical altimeter
optical bench
optical character reader
optical crown
optical density
optical double star
optical flint
optical glass
optical illusion
optical instrument
optical instruments
optical isomer
optical isomerism
optical maser
optical microscope
optical path
optical physics
optical pyrometer
optical rotation
optical scanning
optical telescope
optical tooling
optically active
optically inactive
optico-
optimum capacity
optimum programming
optional bond
optional dividend
optional primary
optional referendum
opto-
opus araneum
opus consutum
opus incertum
opus isodomum
opus pectineum
opus pseudoisodomum
opus reticulatum
or Harry
or buts
or circuit
or else
or ever
or not
or steal
or the instrument evidencing
or-
ora pro nobis
oracle of Dodona
oral cavity
oral communication
oral contraceptive
oral evidence
oral examination
oral groove
oral history
oral interpretation
oral method
oral poetry
oral society
oral surgery
oral-genital stimulation
orchard bush
orchard fruit
orchard grass
orchard heater
orchard heating
orchard house
orchard oriole
orchard valve
orchella weed
orchestra bells
orchestra circle
orchestra leader
orchestra pit
orchestral bells
orchestral horn
orchestral musician
orchestral score
orchid family
orchid fly
orchid peat
orchid pink
orchid rose
orchid tree
orchilla weed
ordeal bark
ordeal bean
ordeal by battle
ordeal by fire
ordeal by lots
ordeal by water
ordeal root
ordeal tree
order about
order arms
order around
order bill of lading
order blank
order in council
order of battle
order of being
order of business
order of magnitude
order of nature
order of succession
order of the day
order of worship
order paper
ore hearth
ore mill
ore miner
ore process
ore rotundo
ore shoot
ore smelter
ore weigher
ore-bearing
ore-buying
ore-crushing
ore-extracting
ore-forming
ore-handling
ore-hoisting
ore-milling
ore-mining
ore-roasting
ore-smelting
ore-washing
ore-weed
oregon grape
orey-eyed
organ beater
organ blower
organ builder
organ building
organ cactus
organ coral
organ desk
organ erector
organ fish
organ gallery
organ grinder
organ gun
organ harmonium
organ loft
organ maker
organ manual
organ of Corti
organ of taste
organ of thought
organ of vision
organ pipe
organ player
organ point
organ screen
organ stop
organ swell
organ transplant
organ transplantation
organ whistle
organ-
organ-blowing
organ-grinder
organ-piano
organ-pipe
organ-pipe cactus
organ-pipe coral
organic being
organic chemical
organic chemist
organic chemistry
organic chlorine
organic disease
organic electricity
organic fertilizer
organic matter
organic mechanism
organic mechanist
organic nature
organic phosphate insecticide
organic psychosis
organic remains
organic structure
organic unity
organization insignia
organization man
organized crime
organized ferment
organized labor
organized matter
organized militia
organized reserves
organo-
orgone box
orgone energy
orgone theory
orgone-energy accumulator
ori-ellipse
oriel window
orient blue
orient pink
orient red
orient the chart
orient the map
orient yellow
orient yourself
oriental beetle
oriental cockroach
oriental poppy
oriental roach
oriental rug
orientate yourself
orientation course
orifice meter
origanum oil
original condition
original jurisdiction
original sin
original title
origin from
originate in
orl fly
orlop deck
ormolu varnish
ornamental composition
ornamental garden
ornamental glass
ornamental grass
ornamental motif
ornamental style
ornamental theme
ornaments rubric
ornith-
ornitho-
oro-
orographic cloud
orographic precipitation
orphan chamber
orphans' court
orphreyed miter
orpiment orange
orpiment red
orpiment yellow
orpine family
orra man
orris oil
orth-
ortho-
ortho-cousin
ortho-orsellinic
ortho-toluidine
ortho-xylene
other-directedness
other-direction
other-group
other-self
otic vesicle
otitis externa
otitis interna
otitis media
otium cum dignitate
oto-
ottava alta
ottava bassa
ottava rima
otter board
otter brown
otter canoe
otter gear
otter hound
otter raft
otter sheep
otter shell
otter shrew
otter trawl
ouabe oil
oufs a la coque
oufs brouilles
oufs poches
oufs sur le plat
ought to
ouija board
ounce apothecaries'
ounce avoidupois
ounce metal
ounce troy
our account of ourselves
our father
our times
ourang-outang
ourano-
ouster le main
ouster-le-main
out ahead
out and away
out at elbows
out at heels
out at the elbows
out at the heels
out board
out cold
out for
out for bear
out from under
out front
out guide
out in front
out in left field
out in the cold
out in the open
out in your reckoning
out loud
out of
out of a clear blue sky
out of a clear sky
out of a job
out of accord
out of action
out of all bounds
out of all proportion
out of all reason
out of bounds
out of breath
out of character
out of commission
out of conceit with
out of condition
out of contact
out of control
out of countenance
out of court
out of danger
out of date
out of debt
out of doors
out of earreach
out of earshot
out of employ
out of fashion
out of favor
out of focus
out of form
out of funds
out of gear
out of hand
out of harm's reach
out of harm's way
out of harness
out of hearing
out of humor
out of it
out of its element
out of joint
out of keeping
out of kelter
out of kilter
out of line
out of line with
out of luck
out of measure
out of order
out of phase
out of pitch
out of place
out of play
out of plumb
out of pocket
out of practice
out of print
out of proportion
out of question
out of range
out of reach
out of repair
out of season
out of shape
out of sight
out of sight out of mind
out of sorts
out of soundings
out of spirits
out of square
out of step
out of stock
out of style
out of sympathy
out of temper
out of the battle
out of the blue
out of the common
out of the habit of
out of the meshes
out of the mind
out of the ordinary
out of the pale
out of the perpendicular
out of the picture
out of the question
out of the running
out of the sphere of
out of the toils
out of the way
out of the woods
out of the world
out of this
out of this world
out of time
out of tone
out of touch
out of training
out of trim
out of true
out of tune
out of tune and harsh
out of turn
out of use
out of whack
out of whole cloth
out of wind
out of work
out of working order
out of your bearings
out of your control
out of your depth
out of your element
out of your hands
out of your head
out of your league
out of your mind
out of your mind with fear
out of your misery
out of your power
out of your reckoning
out of your senses
out of your skull
out of your teens
out of your wits
out on a limb
out on a rail
out on strike
out sister
out the window
out to
out tray
out with
out with it
out-
out-Herod
out-and-out
out-and-out lie
out-and-outer
out-argue
out-ask
out-babble
out-boarder
out-bound
out-bowed
out-brag
out-building
out-burn
out-by
out-cargo
out-clearer
out-clearing
out-college
out-country
out-craft
out-door
out-field
out-fielder
out-group
out-guard
out-herod
out-herod Herod
out-kneed
out-migrant
out-migrate
out-migration
out-of
out-of-bounds
out-of-center
out-of-course
out-of-date
out-of-dateness
out-of-door
out-of-doors
out-of-fashion
out-of-focus
out-of-hand
out-of-humor
out-of-joint
out-of-line
out-of-office
out-of-order
out-of-place
out-of-plumb
out-of-pocket
out-of-print
out-of-reach
out-of-school
out-of-season
out-of-stater
out-of-stock
out-of-the-common
out-of-the-way
out-of-the-world
out-of-town
out-of-towner
out-of-townish
out-of-tune
out-of-tunish
out-of-turn
out-of-vogue
out-office
out-parish
out-patient
out-pension
out-pointed
out-quarter
out-relief
out-room
out-sentry
out-settlement
out-soul
out-station
out-street
out-take
out-throw
out-thrust
out-top
out-travel
out-voter
out-wall
out-worker
outa sight
outboard cruiser
outboard motor
outboard motorboat
outboard profile
outburst of anger
outburst of laughter
outcast of society
outcrop mine
outdoor theater
outer atmosphere
outer automorphism
outer bar
outer barrister
outer ear
outer face
outer garments
outer jib
outer layer
outer planet
outer product
outer side
outer skin
outer space
outer station
outer-directed
outermost reaches of space
outfit car
outing flannel
outlaw strike
outlet box
outlet plate
outline stitch
outlook over
outlying picket
outpatient clinic
outpost of advancing day
outpost province
output conductance
output current
output data
output indicator
output lag
output measurement
output oscillation
output pulse
output quantity
output resistance
output signal
output transformer
output tube
output voltage
outrigger canoe
outrigger torpedo
outs with
outside broadcast
outside broker
outside caliper
outside chance
outside clinch
outside finish
outside form
outside home
outside hope
outside in
outside jaunting car
outside lap
outside lead
outside left
outside loop
outside market
outside of
outside pickup
outside right
outside roll
outside securities
outside the gates
outside the pale
outside work
outsmart yourself
outstanding accounts
outstanding debt
outstanding feature
outstanding securities
outstretched hand
outstrip the wind
outward appearance
outward show
outward-bound
outward-bounder
outward-facing
outward-flow turbine
ov-
oval chuck
oval compass
oval file
oval kumquat
oval window
oval-arched
oval-berried
oval-bodied
oval-bored
oval-faced
oval-figured
oval-headed
oval-lanceolate
oval-leaved
oval-shaped
oval-truncate
oval-visaged
ovals of Cassini
ovario-
ovate-acuminate
ovate-cordate
ovate-cuneate
ovate-cylindraceous
ovate-cylindrical
ovate-deltoid
ovate-ellipsoidal
ovate-elliptic
ovate-lanceolate
ovate-leaved
ovate-oblong
ovate-orbicular
ovate-rotundate
ovate-serrate
ovate-serrated
ovate-subulate
ovate-triangular
ovato-
oven builder
oven furnace
oven thermometer
oven tit
oven wood
oven-bake
oven-baked
oven-bird
oven-dried
oven-dry
oven-ready
oven-shaped
over a barrel
over again
over against
over and above
over and over
over and over again
over head and ears
over head and ears in
over head and ears in love
over my dead body
over the board
over the counter
over the hill
over the hills and far away
over the hump
over the side
over the top
over the water
over there
over your head
over-
over-abound
over-age
over-all
over-and-over stitch
over-anxious
over-arm
over-bold
over-capitalize
over-caution
over-cautious
over-confident
over-correct
over-counter
over-credulous
over-curious
over-dear
over-deck
over-delicate
over-develop
over-discharge
over-eager
over-earnest
over-estimate
over-excite
over-exert
over-expose
over-feed
over-gear
over-greedy
over-hard
over-hasty
over-indulge
over-inform
over-issue
over-king
over-labour
over-liberal
over-lip
over-long
over-measure
over-modest
over-nice
over-people
over-persuade
over-please
over-populate
over-print
over-produce
over-proof
over-proportion
over-read
over-reckon
over-refine
over-rent
over-riding
over-round
over-rule
over-scrupulous
over-sell
over-shoe
over-size
over-soul
over-subscribe
over-supply
over-the-counter
over-the-counter drug
over-the-counter market
over-the-counter securities
over-train
over-trouble
over-trust
over-under
over-value
over-weight
over-wet
over-wise
over-zeal
overall length
overbearing pride
overcast stitch
overcome your resistance
overcome yourself
overcorrection of error
overcurrent relay
overdo it
overdose of
overdraft kiln
overdraw your account
overdrawn account
overextend yourself
overflow bug
overflow pipe
overflow with
overflow with energy
overflow with gratitude
overflowing eyes
overhand knot
overhead camshaft
overhead door
overhead lighting
overhead price
overhead railway
overhead-valve engine
 overheated economy
 overland stage
 overlap fault
 overlap radar
 overlay glass
 overload breaker
 overload circuit
 overload circuit breaker
 overload relay
 overload starter
 overload switch
 overlook distinctions
 overlook no possibility
 overlook nothing
 overlooking no possibility
 overly permissive
 overmonopo-lizing
 overnight bag
 overnight sensation
 overnight telegram
 overopenness to conviction
 overopenness to persuasion
 overplay your hand
 overreach yourself
 overreact to
 overseas bar
 overseas cap
 overseas operations
owlet moth
owlet nightjar
own accord
own account
own authority
own choice
own correspondent
own discretion
own free will
own hands
own hook
own initiative
own power
own responsibility
own say-so
own sweet way
own up
own volition
own way
own yourself in the wrong
own-form
own-root
own-rooted
owning up
ox antelope
ox ball
ox balm
ox bile
ox bot
ox daisy
ox daisy
ox daisy
ox dance
ox feather
ox fence
ox heart
ox louse
ox rail
ox ray
ox sole
ox team
ox warble
ox-
ox-bird
ox-bow
ox-eye
ox-eyed
ox-eyed arch
ox-foot
ox-harrow
oyster rock
oyster scale
oyster schooner
oyster scow
oyster shell
oyster sloop
oyster stew
oyster tongs
oyster tree
oyster white
oyster-catcher
oyster-culturist
oyster-shaped
oyster-shell bark louse
oyster-shell scale
oysters in the half shell
oysters on the half shell
oystershell scale
oz ap
oz av
oz t
ozaena-
ozon-
ozone layer
ozone paper
ozonic ether
p & p
p's and q's
p-n junction
p-type
p/e ratio
pF
pH
pH meter
pW
pa system
paca-rana
pace egg
pace off
pachy-
pacific time
pack a punch
pack animal
pack away
pack bearer
pack carrier
pack drill
pack driver
pack duck
pack hoister
pack horse
pack ice
pack in
pack mule
pack needle
pack of cigarettes
pack of dogs
pack of lies
pack of nonsense
pack of troubles
pack off
pack on
pack on sail
pack puller
pack rat
pack road
pack rolling
pack sack
pack sheet
pack tent
pack the deal
pack train
pack twine
pack up
pack wall
pack-bearing
pack-horse
pack-laden
pack-needle
pack-saddle
package advertising
package bargaining
package conveyer
package deal
package price
package store
package tour
packaged goods
packaged house
packaged tour
packed caucus
packed cell volume
packed deal
packed jury
packed like herrings
packed like sardines
packed out
packed-up
packet boat
packet day
packet folio
packet ship
packet-boat
packing box
packing case
packing fraction
packing house
packing nut
packing plant
packing ring
pad crimp
pad eye
pad foot
pad groom
pad hook
pad horse
pad saddle
pad saw
pad stone
padded cell
paddle beam
paddle board
paddle boat
paddle box
paddle hole
paddle plate
paddle shaft
paddle staff
paddle steamer
paddle tennis
paddle tumbler
paddle wheel
paddle wing
paddle your own canoe
paddle-shaped
paddle-wheel
paddock pipe
paddy blast
paddy field
paddy lucern
paddy wagon
paddy-bird
paddywhack almanac
padge owl
padlock injunction
padlock law
padouk wood
padparadschah sapphire
peacan of cheers
paed-
paedo-
pagan deity
pagan divinity
pagan priest
pagano-Christian
pagano-Christianism
page boy
page chair
page cord
page gauge
page numbering
page proof
page rest
page through
page-boy
pagoda sleeve
pagoda stone
pagoda tree
pagoda-tree
pai-hua
pai-loo
pai-loos
paid holiday
paid in full
paid vacation
paid-
paid-in
paille finne
pain in the ass
pain in the neck
pain killer
pain pill
pain spot
pain-afflicted
pain-assuaging
pain-bearing
pain-bought
pain-chastened
pain-dispelling
pain-distorted
pain-drawn
pain-fearing
paint-removing
paint-splashed
paint-spotted
paint-spraying
paint-stained
paint-washing
paint-worn
paint beauty
paint bunting
paint cup
paint grass
paint greenling
paint lady
paint pony
paint snipe
paint tongue
paint trillium
paint turtle
paint woman
painter etcher
painter etching
painter graver
painter graving
painter stainer
painter's colic
painter's cream
painter-stainer
painting with the gift of speech
pair annihilation
pair case
pair of bellows
pair of binoculars
pair of compasses
pair of glasses
pair of pincers
pair of scales
pair of scissors
pair of spectacles
pair of suspenders
pair of tongs
pair of trousers
pair of tweezers
pair of twins
pair of virginals
pair of winks
pair off
pair production
pair royal
pair-horse
pair-oar
pair-oared
pair-royal
paired with
paisley print
pajama party
pak-choi
pak-choi cabbage
pak-chois
pakpak-lauin
pal around with
pal up
pal up with
pal with
palace car
palace court
palace guard
palace revolution
palaeo-
palais de danse
palais glide
palas kino
palate bone
palatial residence
palatine tonsil
palato-
pale as a corpse
pale as a forpined ghost
pale as a ghost
pale as death
pale as his shirt
pale bark
pale blue chip
pale brandy
pale broomrape
pale catechu
pale color
pale corydalis
pale elder
pale horse
pale laurel
pale rider
pale-
pale-blooded
pale-blue
pale-bright
pale-cheeked
pale-colored
pale-complexioned
pale-dried
pale-eared
pale-eyed
pale-face
pale-faced
pale-gray
pale-green
pale-hued
pale-leaved
pale-livered
pale-looking
pale-red
pale-reddish
pale-refined
pale-souled
pale-spirited
pale-spotted
pale-striped
pale-tinted
pale-visaged
pale-yellow
paleo-
paleolithic man
paleontological geology
pales weevil
palette knife
paling board
palisade cell
palisade crown
palisade parenchyma
palisade worm
palkee gharry
pall-like
pall-mall
palladium red
palladium sponge
pallet board
pallet box
pallet eye
pallet knife
pallet leather
pallet stone
pallet tail
pallial sinus
palliative operation
palliative treatment
pallid-faced
pallid-fuliginous
pallid-gray
pallid-looking
pallid-ochraceous
pallid-tomentose
pallio-
pallisado crown
pally walsy
palm beetle
palm branch
palm butter
palm cabbage
palm capital
palm cat
palm chat
palm civet
palm cockatoo
palm crab
palm dove
palm family
palm fern
palm for
palm grass
palm grease
palm greaser
palm greasing
palm green
palm grub
palm honey
palm house
palm kale
palm kernel
palm leaf
palm lily
palm marten
palm nut
palm off
palm off on
palm oil
palm on
palm peach
palm play
palm reader
palm squirrel
palm starch
palm stay
palm sugar
palm sunday
palm swift
palm upon
palm vaulting
palm warbler
palm wax
palm weevil
palm willow
palm wine
palm worm
palm-bearing
palm-crowned
palm-fringed
palm-kernel oil
palm-leaf fan
palm-leaf hat
palm-leaved grass
palm-oil
palm-oil chop
palm-reading
palm-shaded
palm-shaped
palm-thatched
palm-tree
palm-veined
palma christi
palma samandoca
palmarosa oil
palmati-
palmella stage
palmer fly
palmer tree
palmer trout
palmer worm
palmer-worm
palmetto barrens
palmetto flag
palmetto green
palmetto scrub
palmi-
palmitic acid
palmy days
palmyra wood
palo blanco
palolo worm
palpebral fissure
palpitation of the heart
palsy-quaking
palsy-shaken
palsy-shaking
palsy-sick
palsy-stricken
palsy-struck
palsy-walsy
paltry affair
paludal fever
paludi-
paly-bendy
pam head
pampas cat
pampas deer
pampas formation
pampas fox
pampas grass
pampas-grass
pamper yourself
pampered darling
pan amalgamation
pan american day
pan boiler
pan bolt
pan broiler
pan conveyer
pan fish
pan for gold
pan grave
pan gravy
pan head
pan ice
pan out
pan shot
pan supari
pan-
pan-Latin
pan-Saxon
pan-american
pan-americanism
pan-anglican
pan-broil
pan-broiled
pan-broiling
pan-fired
pan-fried
pan-fry
pan-frying
pan-headed
pan-leaf
pan-loaf
pan-pipe
pan-sexualism
pan-shaped
pancake bell
pancake engine
pancake ice
pancake landing
pancake plant
panchen lama
panchromatic film
pancreas ptyalin
pancreat-
pancreatic digestion
pancreatic duct
pancreatic fibrosis
pancreatic juice
pancuronium bromide
panda car
pandemic disease
pander to
pandora shell
panel beater
panel bed
panel board
panel body
panel den
panel discussion
panel heating
panel house
panel length
panel lighting
panel patch
panel photograph
panel pin
panel plane
panel point
panel saw
panel show
panel strip
panel switching
panel system
panel thief
panel truck
panel van
panel wall
panel wheel
pangs of conscience
panic bar
panic bent
panic bolt
panic fear
panic grass
panic party
panic terror
panic-driven
panic-pale
panic-prone
panic-proof
panic-stricken
panic-strike
panic-struck
panic-stunned
panne velvet
pannier pack
pannikin boss
panoramic radar
panoramic shot
panoramic sight
panoramic telescope
pansy orchid
pansy purple
pansy violet
pansy-colored
pansy-growing
pansy-purple
pansy-violet
pansy-yellow
pant after
pant for
pant suit
pant-
panta-
pantechnicon van
panther cat
panther cowrie
panther lily
panther piss
pantie girdle
pantile lath
pantile roof
panting stringer
panto-
pantograph snaffle
pantograph trolley
pantomime dame
pantothenic acid
pants suit
panty girdle
panty hose
panty-hose
panzer division
panzer warfare
papa rock
papal brief
papal cross
papal infallibility
papanicolaou test
papaw family
paper baler
paper birch
paper blockade
paper book
paper boy
paper bush
paper carrier
paper chase
paper chaser
paper chromatography
paper clip
paper cloth
paper coal
paper colorer
paper credit
paper cutter
paper doll
paper dolls
paper flower
paper foot
paper grass
paper hanger
paper hanging
paper holder
paper hornet
paper house
paper hunt
paper jogger
paper joint
paper knife
paper lapper
paper machine
paper mill
paper money
paper-folding
paper-footed
paper-hangings
paper-lined
paper-mended
paper-palisaded
paper-paneled
paper-patched
paper-saving
paper-selling
paper-shell
paper-shelled
paper-shuttered
paper-slitting
paper-sparing
paper-stainer
paper-stamping
paper-testing
paper-thick
paper-thin
paper-using
paper-varnishing
paper-waxing
paper-white
paper-whiteness
paper-windowed
paperbark maple
papery-skinned
papier coll
papier colle
papier mache
papier-mache
papier-mch
papoose board
papoose-root
paprika sauce
papular rash
papulo-
papyro-
papyrus capital
papyrus column
par avance
par avion
par bond
par collection
par cour
par excellence
par exemple
par parenthese
par value
par-
par-three
para red
para rubber
para-
para-agglutinin
para-aminobenzoic acid
para-aminophenol
para-analgesia
para-anesthesia
para-appendicitis
para-cymene
para-nitrophenol
para-phenetidine
para-rescue
para-ski
para-toluidine
parabolic aerial
parabolic antenna
parabolic reflector
parabolic-reflector microphone
parachute approach
parachute badge
parachute brake
parachute drogue
parachute flare
parachute jump
parachute jumper
parachute light
parachute light ball
parachute rigger
parachute spinnaker
parachute troops
paracoto bark
parade armor
parade bed
parade ground
parade rest
parade your wares
paradental pyorrhea
paradigm case
paradise apple
paradise bird
paradise duck
paradise finch
paradise fish
paradise flower
paradise flycatcher
paradise gallery
paradise grackle
paradise green
paradise grosbeak
paradise nut
paradise plant
paradise seed
paradise stock
paradise tree
paradox gun
paradoxical sleep
paraffin distillate
paraffin hydrocarbon
paraffin oil
paraffin paper
paraffin scale
paraffin series
paraffin wax
paraffin xylol
paraffin-base
paraffin-base oil
paraglyph printing
paragonite schist
parainfluenza virus
paralinguistic communication
parallel axiom
parallel bar
parallel bars
parallel column
parallel cousin
parallel cousin marriage
parallel dash
parallel fifths
parallel file
parallel forces
parallel intervals
parallel line
parallel middle body
parallel motion
parallel octaves
parallel of altitude
parallel of latitude
parallel operation
parallel postulate
parallel projection
parallel rule
parallel ruler
parallel rulers
parallel rules
parallel sailing
parallel series
parallel top
parallel trench
parallel turn
parallel vector
parallel-flow turbine
parallel-line scanning
parallel-veined
parallelogram law
parallelogram of forces
parallelogram rule
paralysis agitams
paralysis agitans
paralysis of authority
paralytic dementia
paralytic rabies
paralytic stroke
parametric amplifier
paramine brown
paramount estate
paranitraniline red
paranoiac psychosis
paranoid delusion
paranoid personality
paranoid psychosis
paranoid schizophrenia
paraphase amplifier
parasite drag
parasite resistance
parasitic drag
parasitic plant
parasitic suppressor
parasitic vowel
parasol ant
parasol fern
parasol mushroom
parasol pine
parasol skirt
parasol wing
parasol-shaped
parasympathetic nervous system
parathyroid extract
parathyroid gland
parathyroid hormone
pare down expenses
pareira brava
parent company
parent complex
parent compound
parent element
parent fixation
parent language
parent metal
parent-in-law
parental generation
parental home
parental love
parental school
parenthetical remark
parfait amour
parheliacal ring
parhelic circle
parhelic ring
pari passu
pari-
pari-mutuel
pari-mutuel machine
pariah dog
pariah kite
parian ware
parietal bone
parietal cell
parietal eye
parietal lobe
parieto-
parieto-occipital
parimutuel machine
paring chisel
paring down
paring gouge
paring knife
paris green
parish church
parish clerk
parish council
parish house
parish meeting
parish priest
parish records
parish register
parish rolls
parish school
parish top
parish-pump
parish-rigged
parity bit
parity check
park flower
park forest
park green
park in space
park of artillery
park savanna
parkin baker
parking brake
parking disc
parking light
parking lot
parking meter
parking orbit
parking ramp
parking ticket
parkinson's disease
parl proc
parlatoria scale
parliament cake
parliament heel
parliament hinge
parliament house
parliament man
parliamentary agent
parliamentary government
parliamentary law
parliamentary private secretary
parliamentary secretary
parliamentary train
parlor Bolshevik
parlor boarder
parlor car
parlor grand
parlor house
parlor pink
parlour car
parlour game
parlous straits
parochial church council
parochial council
parochial school
parol arrest
parol contract
parole femme
parole law
paroquet auklet
paroquet bur
parotid duct
parotid gland
paroxysmal tachycardia
parquet circle
parquet floor
parrel truck
parrot bullfinch
parrot cry
parrot disease
parrot fever
parrot fish
parrot green
parrot mouth
parrot's-bill
parrot's-feather
parrot-beak
parrot-beaked
parrot-billed
parrot-coal
parrot-fashion
parrot-fish
parrot-gray
parrot-learned
parrot-mouthed
parrot-nosed
parrot-red
parrot-toed
pars intermedia
parsley bed
parsley crown
parsley fern
parsley pie
parsley piert
parsley wreath
parsley-flavored
parsley-leaved
parsnip wine
parson bird
parson's nose
parson-bird
part and parcel
part by part
part company
part exchange
part from
part gate
part music
part of speech
part of writing
part owner
part singing
part song
part time
part with
part work
part-created
part-done
part-earned
part-finished
part-heard
part-off
part-opened
part-owner
part-score
part-song
part-time
part-time worker
part-timer
part-writing
partake in
partake of
partake of the Lord's Supper
parted and fretty
parted from
parted per tierce
parterre box
parterre boxes
parti pris
parti-
parti-color
parti-colored
parti-coloured
parti-decorated
parti-mortgage
parti-named
parti-striped
partial amnesia
partial blindness
partial darkness
partial denture
partial derivative
partial differential
partial differential equation
partial eclipse
partial fraction
partial fractions
partial hold deck
partial ordering
partial pressure
partial product
partial score
partial sum
partial to
partial tone
partial vacuum
partially ordered
partially ordered set
particeps criminis
participant observation
participant observer
participate in
participating bond
participating insurance
participating mortgage
participating preferred
participating preferred stock
participatory democracy
particle accelerator
particle counter
particle of difference
particle physics
particle separation
particle velocity
particular affirmative
particular average
particular choice
particular estate
particular lien
particular negative
particular quantifier
particular solution
particulate inheritance
parties litigant
partin of wood
parting bead
parting chisel
parting cup
parting gate
parting of the ways
parting shard
parting shot
parting strip
parting tool
parting words
partisan election
partisan politics
partisan spirit
partition bulkhead
partition law
partition line
partner in crime
partner plate
partnered with
partners with
partners' desk
partridge cane
partridge dove
partridge pea
partridge pigeon
partridge-berry
partridge-wood
parts list
parts of
parts of ships
party boss
party chairman
party chieftain
party circle
party doctrine
party dress
party emblem
party faithful
party girl
party hack
party in power
party leader
party line
party liner
party machine
party man
party member
party per fess
party per tierce
party philosophy
party platform
party politics
party pooper
party principle
party spirit
party to a suit
party wall
party wheelhorse
party whip
party wire
party-colored
party-column ballot
party-giving
party-making
party-man
party-political
party-spirited
party-wall
party-walled
party-zealous
parula blue
parula warbler
parvi-
pas d'action
pas de basque
pas de chat
pas de cheval
pas de deux
pas de trois
pas du tout
pas seul
pasch egg
pasch-egg
paschal candle
paschal controversy
paschal flower
paschal lamb
paschal letter
paso doble
pasque-flower
pass all bounds
pass along
pass an opinion
pass and repass
pass around
pass as
pass away
pass band
pass belief
pass boat
pass box
pass by
pass by in silence
pass check
pass comprehension
pass counterfeit money
pass course
pass current
pass degree
pass door
pass for
pass from mouth to mouth
pass holder
pass in review
pass in the dark
pass in the mind
pass in the thoughts
pass in your checks
pass in your chips
pass into
pass into your hands
pass judgment
pass key
pass law
pass master
pass muster
pass off
pass off on
pass on
pass out
pass out cold
pass out of sight
pass out of the picture
pass over
pass over Jordan
pass over lightly
pass point
pass sentence
pass sentence on
pass the Rubicon
pass the buck
pass the eyes over
pass the fingers over
pass the hat
pass the queer
pass the time
pass the time of day
pass through
pass through your head
pass through your mind
pass time
pass to the order of the day
pass under review
pass under the name of
pass understanding
pass up
pass upon
pass water
pass with flying colors
pass you by
pass your lips
pass your time in
pass your word
pass-
pass-book
pass-by
pass-bye
pass-guard
pass-key
pass-man
pass-out
passage at arms
passage bed
passage bird
passage board
passage boat
passage d'arms
passage grave
passage hawk
passage money
passage of arms
passage of time
passage penny
passage work
passage-boat
passage-free
passage-making
passage-work
passaree boom
passe-partout
passe-partouts
passe-temps
passed away
passed ball
passed by
passed master
passed on
passed out
passion-colored
passion-distracted
passion-driven
passion-feeding
passion-filled
passion-flower
passion-fraught
passion-frenzied
passion-guided
passion-kindled
passion-kindling
passion-led
passion-proud
passion-ridden
passion-shaken
passion-smitten
passion-stirred
passion-stung
passion-swayed
passion-thrilled
passion-thrilling
passion-torn
passion-tossed
passion-wasted
passion-winged
passion-worn
passive algolagnia
passive immunity
passive noun
passive obedience
passive reason
passive resistance
passive resister
passive self-annihilation
passive voice
passive-aggressive reaction
passive-dependence reaction
passive-minded
passy-measures
past and gone
past bearing
past comprehension
past danger
past dispute
past due
past expectation
past experience
past history
patrol boat
patrol bomber
patrol car
patrol plane
patrol torpedo boat
patrol wagon
patron of drama
patron saint
patronal festival
patronizing attitude
patten maker
patter song
pattern after
pattern bargaining
pattern bombing
pattern box
pattern card
pattern designer
pattern maker
pattern of perfection
pattern reader
pattern wheel
pattern-bomb
pattes de mouche
patty shell
patty-cake
patty-shell
pauci-
paucis verbis
paul bunyan
paulo-post-future
paunch mat
pauper costs
pauper-born
pauper-bred
pauper-breeding
pauper-fed
pauper-feeding
pauper-making
pause for station identification
pauvre diable
pave the way
pave the way to
paved road
pavement ant
pavement artist
pavement epithelium
pavement light
paver of the way
pavilion hospital
pavilion roof
paving brick
paving material
paving roller
paving stone
paving tile
pavor nocturnus
paw print
paw-paw
paw-pawness
pawed-over
pawl bitt
pawl head
pawl post
pawl rim
pawn ticket
pax in bello
pax tecum
pax vobiscum
pay COD
pay a compliment
pay a visit
pay addresses to
pay after deductions
pay after taxes
pay and allowances
pay as you go
pay at sight
pay attention
pay attention to
pay attentions to
pay back
pay back in full measure
pay bed
pay by installments
pay cash
pay cash down
pay cash on delivery
pay cash on the barrelhead
pay clerk
pay close attention
pay conscience money
pay court to
pay damages
pay dearly
pay dirt
pay divine honors to
pay down
pay envelope
pay exorbitantly
pay for
pay heed
pay heed to
pay homage to
pay honor to
pay in
pay in advance
pay in full
pay in kind
pay load
pay mind to
pay more than it's worth
pay no attention
pay no attention to
pay no mind
pay no regard to
pay off
pay off old scores
pay off the head
pay old debts
pay on
pay one in his own coin
pay out
pay over
pay phone
pay raise
pay regard to
pay reparation
pay reparations
pay respect to
pay roll
pay scot and lot
pay someone back in his own coin
pay spot cash
pay station
pay strict attention
pay suit to
pay the bill
pay the bills
pay the costs
pay the debt of nature
pay the debt to nature
pay the forfeit
pay the penalty
pay the piper
pay the shot
pay through the nose
pay to the tune of
pay too much
pay tribute
pay tribute to
pay up
pay you in your own coin
pay you in your own currency
pay your
pay your addresses to
pay your court to
pay your dues
pay your respects to
pay your share
pay your way
pay-
pay-TV
pay-all
pay-as-you-go
pay-day
pay-off
pay-rent
pay-roller
paying back
paying guest
paying off
paying out
paying the bills
paying up
paymaster general
paymaster-generalship
payment bill
payment in kind
pay no regard to
payroll deduction insurance
payroll padding
pe-tsai cabbage
pea bean
pea beetle
pea blight
pea coal
pea comb
pea crab
pea flower
pea green
pea grit
pea huller
pea in the shoe
pea jacket
pea measle
pea mildew
pea moth
pea ore
pea rifle
pea sheller
pea shrub
pea soup
pea souper
pea tree
pea vetchling
pea vine
pea weevil
pea-brained
pea-chick
pea-coat
pea-combed
pea-flower
pea-flowered
pea-jacket
pea-picking
pea-shoot
pea-sized
pea-soup
pea-soup fog
pea-souper
pea-soupy
pea-tree
peabody bird
peace and quiet
peace be to this house
peace be to you
peace be with you
peace be within thy walls
peace conference
peace dove
peace establishment
peace feelers
peace giver
peace guild
peace lover
peace of God
peace of heart
peace of mind
peace of soul
peace of spirit
peace offensive
peace offer
peace offering
peace officer
peace pipe
peace warrant
peace-abiding
peace-blessed
peace-breathing
peace-bringing
peace-enamored
peace-giving
peace-inspiring
peace-keeping force
peace-loving
peace-lulled
peace-offering
peace-preaching
peace-procuring
peace-restoring
peace-trained
peaceful change
peaceful coexistence
peaceful death
peaceful end
peaceful protest
peaceful sleep
peach aphid
peach bacteriosis
peach bark beetle
peach bell
peach blight
peach blister
peach bloom
peach blossom
peach borer
peach canker
peach color
peach fuzz
peach melba
peach moth
peach red
peach rosette
peach twig borer
peach wine
peach-blossom
peach-blow
peach-colored
peach-kernel oil
peach-leaved
peachblossom pink
peachblow glass
peachtree borer
peachy-keen
peacock blue
peacock butterfly
peacock fan
peacock green
peacock heron
peacock iris
peacock moth
peacock ore
peacock pheasant
peacock poppy
peacock worm
peacock's feather
peacock's tail
peacock-blue
peacock-feathered
peacock-fish
peacock-flower
peacock-herl
peacock-hued
peacock-spotted
peacock-voiced
peak crest
peak factor
peak load
peak out
peaked cap
peaking circuit
peaky-faced
peal of applause
peal of laughter
peal of thunder
peal ringing
peanut bar
peanut brittle
peanut butter
peanut butter and jelly sandwich
peanut flour
peanut gallery
peanut oil
peanut politician
peanut politics
peanut tube
peanut worm
pear blight
pear blight beetle
pear borer
pear brandy
pear gauge
pear haw
pear midge
pear scale
pear shell
pear slug
pear squash
pear thorn
pear thrips
pear-leaved
pear-shaped
pearl ash
pearl barley
pearl blue
pearl bluish
pearl blush
pearl coating
pearl cotton
pearl danio
pearl diabase
pearl disease
pearl diver
pearl diving
pearl edge
pearl essence
pearl eye
pearl filler
pearl fisher
pearl fishing
pearl grain
pearl gray
pearl grey
pearl harbor
pearl hardening
pearl hen
pearl millet
pearl molding
pearl mussel
pearl oyster
pearl shell
pearl sheller
pearl shelling
pearl sinter
pearl spar
pearl spurry
pearl tapioca
pearl white
pearl-ash
pearl-barley
pearl-bearing
pearl-besprinkled
pearl-bordered
pearl-bush
pearl-coated
pearl-colored
pearl-crowned
pearl-encrusted
pearl-eyed
pearl-fishery
pearl-gemmed
pearl-gray
pearl-handled
pearl-headed
pearl-hued
pearl-like
pearl-lined
pearl-lipped
pearl-oyster
pearl-pale
pearl-pure
pearl-round
pearl-set
pearl-shell
pearl-studded
pearl-teethed
pearl-toothed
pearl-white
pearl-wreathed
pearl-yielding
pearly everlasting
pearly king
pearly nautilus
pearly-white
pearten up
peas in a pod
peasant blue
peasant cunning
peasant holder
peasant proprietor
peasant proprietorship
pecky cypress
pectic acid
pectin sugar
pectini-
pectoral arch
pectoral cross
pectoral fin
pectoral girdle
pectoral muscle
pectoral sandpiper
peculiar expression
peculiar institution
peculiar people
peculiar thing
peculiar trait
pecuniary advantage
pecuniary aid
pecuniary resources
ped-
pedal board
pedal brake
pedal cords
pedal coupler
pedal curve
pedal extremity
pedal ganglion
pedal key
pedal keyboard
pedal note
pedal organ
pedal piano
pedal point
pedal polygon
pedal pushers
pedal surface
pedal wheel
pedal-pushers
pedately cleft
pedately veined
pedati-
peddler’s cart
pede cloth
pede window
pedestal box
pedestal mount
pedestal pile
pedestal rock
pedestal table
pedestrian crossing
pedi-
pedigree clause
pedo-
pedunculate oak
pee your pants laughing
pee-pee
peek in
peek-bo
peel end
peel off
peel tower
peeled eye
peelie-wally
peeling disease
peen hammer
peen-to
peening rammer
peep frog
peep hawk
peep into the future
peep nap
peep of day
peep out
peep plate
peep show
peep sight
peep-bo
peep-hole
peep-show
peeping tom
peer at
peer group
peer into
peer of the realm
peer out
peers of the realm
peevish person
peg along
peg at
peg away
peg down
peg drum
peg float
peg leg
peg on
peg out
peg pants
peg the market
peg to hang on
peg tooth
peg top
peg-a-lantern
peg-tooth harrow
peg-top
pegged market
pegging awl
peking man
pelagic zone
pelargonic acid
pelargonium oil
pelican crossing
pelican fish
pelican flower
pelican hook
pell mell
pell-mell
pellagra-preventive factor
pellet bow
pellet molding
pellitory bark
pelo-
pelorus card
pelt rot
pelt wool
pelti-
pelting rain
pelvi-
pelvic arch
pelvic fin
pelvic girdle
pembroke table
pen and ink
pen cancellation
pen driver
pen driving
pen feather
pen friend
pen in
pen keeping
pen machine
pen maker
pen mating
pen name
pen nib
pen pal
pen palsy
pen picture
pen point
pen portrait
pen portraiture
pen pot
pen pusher
pen pushing
pen sketch
pen up
pen yan
pen-
pen-and-ink
pen-bearing
pen-cancel
pen-clerk
pen-driver
pen-feather
pen-feathered
pen-fish
pen-pusher
pen-shaped
pen-tailed
pen-written
penal code
penal colony
penal institution
penal interest
penal law
penal retribution
penal servitude
penal settlement
penalty area
penalty bench
penalty box
penalty clause
penalty double
penalty envelope
penalty goal
penalty kick
penalty killer
penalty rates
penalty stroke
penang lawyer
penang nut
penang-lawyer
pencil beam
pencil blue
peninsula pine
penis envy
penitent form
penitential Psalm
penitential act
penitential exercise
penitentiary book
pennant fish
pennant hoist
pennant-winged
pennati-
penner-up
penni-
penniless man
pennsylvania dutch
penny ante
penny arcade
penny bank
penny black
penny bridal
penny cake
penny dreadful
penny gaff
penny grass
penny hat
penny horrible
penny loaf
penny pies
penny pincher
penny post
penny rent
penny stock
penny stocks
penny tree
penny wedding
penny wheep
penny whistle
penny wisdom
penny-a-line
penny-a-liner
penny-cress
penny-dreadful
penny-farthing
penny-gaff
penny-grass
penny-pincher
penny-pinching
pep talk
pep up
pepped up
pepper bush
pepper caster
pepper game
pepper mill
pepper oil
pepper plant
pepper pod
pepper pot
pepper red
pepper sauce
pepper spot
pepper tree
pepper turnip
pepper vine
pepper wheat
pepper-and-salt
pepper-and-salt rope
pepper-box
pepper-castor
pepper-pot
pepper-tree
peppercorn rent
peppered moth
peppermint camphor
peppermint geranium
peppermint gum
peppermint oil
peppermint stringbark
peppermint tree
peptic digestion
peptic ulcer
peptide bond
per an
per annum
per ascensum
per bend
per capita
per caput
per cent
per centum
per chevron
per compound
per contra
per descensum
per diem
peremptory refusal
perennial pea
perennial phlox
perennial ryegrass
perennial treatment
perennial-rooted
perfect binding
perfect body
perfect cadence
perfect competition
perfect contrition
perfect flower
perfect fool
perfect game
perfect gas
perfect gentleman
perfect lady
perfect likeness
perfect number
perfect participle
perfect pitch
perfect radiator
perfect ream
perfect rhyme
perfect square
perfect tense
perfect type
perfect usufruct
perfect year
perfecting press
perfecting touch
perfective aspect
perfectly sure
perfector press
perfid Albion
perforated tape
perforated tracery
perforation gauge
perform a
perform a part
perform a part in
perform a rite
perform a role
perform action
perform aerobatics
perform as
perform divine service
perform music
perform on
perform rites
perform service
perform the act of love
perform the duties of
perform the functions of
perform the marriage act
perform the office of
perform your duty
performance test
performing area
performing arts
pergelisol table
peri-
peri-insular
periarteritis nodosa
pericline twinning
peridental membrane
peridot of Ceylon
perigean tide
perigean tides
peril point
peril-laden
perilla oil
perineo-
period of duty
period of existence
period of revolution
period of rotation
period piece
period style
periodic acid
periodic function
periodic law
periodic motion
periodic sentence
periodic system
periodic table
periodic wave
periodical cicada
periodical index
periodicity factor
periodontal membrane
periodontal tissue
periost-
periosteo-edema
peripatetic exercise
peripatetic journey
peripheral device
peripheral field
peripheral nervous system
peripheral neuritis
peripheral speed
peripheral vision
periscopic lens
perish the thought
perish with cold
perishing with hunger
periton-
periwig chair
periwinkle blue
perjure yourself
perjury-proof
perk up
perle cotton
permafrost table
permanent magnet
permanent magnet speaker
permanent magnetism
permanent press
permanent tooth
permanent wave
permanent way
permanent white
permanent yellow
permanent-press fabric
permanganic acid
permeate by nature
permission to enter
permissions editor
permit all
permit anything
permit bond
permonosulfuric acid
permutation lock
pernicious anaemia
pernicious anemia
pernicious weed
pernyi silkworm
peroxide blond
peroxide-blond
peroxy group
peroxy radical
peroxy-
peroxymonosulfuric acid
peroxysulfuric acid
peroxysulphuric acid
perend stone
perend wall
perpendicular distance
perpendicular hand
perpetual adoration
perpetual bond
perpetual calendar
perpetual motion
perplexed question
persecution complex
persian cat
persian lamb
persist in
persistence of vision
persistent cruelty
persistent lactation
person in charge
person of consequence
person of fashion
person of importance
person of note
person of renown
person to be reckoned with
person-to-person
person-to-person call
persona grata
persona non grata
personae gratae
personae non gratae
personal adviser
personal aims
personal ambition
personal appearance
personal choice
personal column
personal conflict
personal correspondence
personal desires
personal effects
personal eq his essays
personal equation
personal file
personal idealism
personal identity
personal initiative
personal judgment
personal letter
personal liberty
personal matter
personal name
personal pronoun
personal property
personal property tax
personal remark
personal responsibility
personal shopper
personal sonar
personal staff
personal style
personal usage
personality bob
personality conflict
personality disintegration
personality disorder
personality disorganization
personality inventory
personality tendency
personality test
personality type
personnel director
personnel manager
persons of the drama
perspiration odor
persuade yourself
persuasion-proof
persulfuric acid
persulphuric acid
pertain to
pertaining to
pertinent to
peruvian bark
pervading attitude
pervading attitudes
pervasive fool
pervasive personality
pervasive-notioned
perverted image
pest pear
pest-house
pest-ridden
pestilence-proof
pestle and mortar
pestle-shaped
pet cock
pet expression
pet food
pet lamb
pet name
pet peeve
pet subject
pet-cock
peta-
petal pink
pete blower
pete man
peter boat
peter gunner
peter out
peter pan
peter’s pence
peter-boat
peter-penny
petit bleu
petit bourgeois
petit dejéuner
petit feu
petit four
petit juror
petit jury
petit larceny
petit mal
petit point
petit serjeanty
petit souper
petit treason
petit-bourgeois
petit-juror
petit-juryman
petit-maitre
petit-mattre
petit-negre
petit-noir
petite bourgeoisie
petite marmite
petite noblesse
petite perception
petites perceptions
petitio principii
petition nomination
petition-proof
petits bourgeois
petits fours
petr-
petrarchan sonnet
petri dish
petrified forest
petrified wood
petro-
petro-occipital
petrol engine
petrol station
petroleum asphalt
petroleum benzine
petroleum coke
petroleum engine
petroleum engineer
petroleum engineering
petroleum ether
petroleum grease
petroleum jelly
petroleum naphtha
petroleum spirit
petticoat breeches
petticoat government
petticoat insulator
petticoat narcissus
petticoat pipe
petty bourgeois
petty bourgeoisie
petty canon
petty captain
petty cash
petty cashbook
petty criticism
petty gambler
petty grafter
petty juror
petty jury
petty king
petty larceny
petty mind
petty officer
petty officer first class
petty officer second class
petty officer third class
petty politician
petty politics
petty sessions
petty theft
petty thief
petty treason
petty tyrant
petty-bag
petty-minded
petty-mindedly
petty-mindedness
petulant person
petunia violet
peu de chose
pew chair
pew hinge
pew opener
pew rent
pew rental
pew reneter
pewter mill
phaeton butterfly
phago-
phagocytic immunity
phako-
phallic stage
phallic symbol
phallic worship
phallic worshipper
phanero-
phantom acceleration
phantom circuit
phantom larva
phantom limb
phantom minnow
phantom of the mind
phantom orchid
phantom picture
phantom red
phantom tumor
phantom wire
phantom-fair
phantom-white
pharaoh ant
pharmaceutical chemist
pharmac-
pharmaco-oryctology
pharyng-
pharyngeal cavity
pharyngeal tonsil
pharyngo-
pharyngo-oesophageal
pharyngo-oral
phase adjustment
phase advancer
phase angle
phase contrast microscope
phase control
phase converter
phase difference
phase discriminator
phase in
phase inverter
phase microscope
phase modulation
phase out
phase rule
phase space
phase splitter
phase splitting
phase transformer
phase velocity
phase-contrast
phase-discriminating amplifier
phase-rotation relay
phase-shift microphone
phase-wound
phase-wound rotor motor
phases of the moon
phatic communion
pheasant cuckoo
pheasant duck
pheasant under glass
pheasant's eye
pheasant’s-eye
pheasant's-eyes
pheasant-eyed
pheasant-plumed
pheasant-shell
pheasant-tailed
phello-
phen-
phenacyl chloride
phenarsazine chloride
phenethyl alcohol
pheno-
phenobarbital sodium
phenol alcohol
phenol aldehyde
phenol coefficient
phenol red
phenol-phthalein
phenolic resin
phenolic urea
phenomenological psychology
phenomenological theology
phenyl acetate
phenyl alcohol
phenyl cyanide
phenyl ether
phenyl ethyl ether
phenyl group
phenyl iodide
phenyl isocyanate
phenyl mercaptan
phenyl methyl ketone
phenyl salicylate
phenyl valerate
phenylaminopropionic acid
phenylene blue
phenylene group
phenylethyl alcohol
phenylethylbarbituric acid
phenylformic acid
phenylic acid
phenylmethylcarbinyl acetate
phenylpropyl acetate
phenylpyruvic oligophrenia
phi-meson
phi-phenomena
phi-phenomenon
phil-
philenor butterfly
philharmonic pitch
philo-
philosopher king
philosopher's stone
philosopher's wool
philosophers' stone
philosophic composure
philosophic doctrine
philosophic system
philosophic theory
philosophical anthropology
philosophical existentialism
philosophical existentialist
philosophical idealism
philosophical induction
philosophical inquiry
philosophical investigation
philosophical optimism
philosophical optimist
philosophical pitch
philosophical proposition
philosophical speculation
philosophical theology
philosophical unitarianism
philosophico-
philosophy learned from examples
philosophy of being
philosophy of organism
philosophy of signs
philosophy of the Academy
philosophy of the Garden
philosophy of the Lyceum
philosophy of the Porch
philosophy of the Stoa
phleb-
phlebo-
phloem fiber
phloem necrosis
phloem parenchyma
phloem ray
phloro-
phobic reaction
phoebe bird
phoenix fowl
phon-
phone book
phone call
phone number
phone-in
phonemic alphabet
phonetic alphabet
phonetic character
phonetic law
phonetic spelling
phonetic symbol
phono-
phonograph record
phony disease
phony dividend
phony money
phony peach
phony war
phoo-phoo
phos-
phosph-
phosphate rock
phosphine oxide
phospho-
phosphonium iodide
phosphor bronze
phosphor copper
phosphoric acid
phosphoric anhydride
phosphor-
phosphorous acid
phosphorous anhydride
phosphorus chloride
phosphorus disease
phosphorus necrosis
phosphorus oxide
phosphorus oxychloride
phosphorus pentachloride
phosphorus pentoxide
phosphorus sesquisulfide
phosphorus sulphide
phosphorus trichloride
phosphoryl chloride
phosphoryl group
phosphoryl radical
phossy jaw
phot-
phote finish
photo base
photo finish
photo layout
photo relief
photo spread
photo-
photo-electric
photo-engraving
photo-finish
photo-galvanography
photo-mount
photo-offset
photo-reconnaissance
photo-reconnaissance plane
photo-retouch
photo-set
photo-setting
photochemical process
photoconductor cell
photoelectric cathode
photoelectric cell
photoelectric cell meter
photoelectric cells
photoelectric colorimeter
photoelectric counter
photoelectric current
photoelectric detector
photoelectric device
photoelectric effect
photoelectric emission
photoelectric image converter
photoelectric inspection machine
photoelectric intrusion detector
photoelectric meter
photoelectric multiplier tube
photoelectric photometer
photoelectric pickup
photoelectric pinhole detector
photoelectric recorder
photoelectric sorter
photoelectric threshold
photoelectric timer
photoelectric tube
photoelectric tubes and cells
photoflash bulb
photoflash lamp
photoflash photography
photoflash synchronizer
photoflood lamp
photogelatin process
photograph album
photographer's model
photographic equipment
photographic magnitude
photographic memory
photographic paper
photographic realism
photographic reproduction
photographic telescope
photomicrographic camera
photomultiplier tube
photosensitive device
photosensitive devices
photosensitive glass
photostatic copy
phototypesetting machine
photovoltaic cell  
photovoltaic effect  
phrasal idiom  
phrasal verb  
phrase book  
phrase mark  
phrase marker  
phrase structure  
phrase-structure grammar  
phrase-structure rule  
phren-  
phreno-  
phthalic acid  
phthalic anhydride  
phthalocyanine blue  
phthalocyanine green  
phyco-  
phyl-  
phyll-  
phylo-  
physi-  
physic nut  
physic-nut  
physical anthropology  
physical body  
physical charm  
physical checkup  
physical chemistry  
physical condition  
physical culture  
physical culturist  
physical dependence  
physical diagnosis  
physical double star  
physical education  
physical examination  
physical fitness  
physical force  
physical geography  
physical geology  
physical jerks  
physical love  
physical map  
physical medicine  
physical metallurgy  
physical meteorology  
physical optics
physical pendulum
physical pleasure
physical presence
physical science
physical sensibility
physical suffering
physical therapist
physical therapy
physical unfeeling
physical world
physician in ordinary
physico-
physico-theology
physio-
physiographic geology
physiologic epilepsy
physiological atmosphere
physiological botany
physiological chemistry
physiological individual
physiological phonetics
physiological psychology
physiological saline
physiological salt soluti
physiological salt solution
physiologically addictive
physo-
phyt-
phytic acid
phyto-
phytogenic infection
pi a form
pi meson
pi-jaw
pi-meson
pia mater
pia-arachnitis
pia-arachnoid
pia-matral
piacular offering
piano accordion
piano action
piano deal
piano duet
piano keys
piano lamp
piano nobile
piano organ
piano player
piano player roll
piano quartet
piano quintet
piano roll
piano score
piano stool
piano subito
piano trio
piano wire
piano-organ
piano-player roll
piano-violin
pica em
picairesque novel
picayune critic
piccolopasso red
pick a bone with
pick a hole
pick a quarrel
pick and choose
pick apart
pick at
pick clean
pick clock
pick dressing
pick eye
pick glass
pick hammer
pick holes
pick nits
pick off
pick on
pick out
pick over
pick rake
pick the bones of
pick the brains of
pick the lock
pick to pieces
pick tongs
pick up
pick up an acquaintance with
pick up information
pick up speed
pick up the check
pick up the mooring
pick up the tab
pick your brains
pick your pockets
pick your steps
pick your way
pick-
pick-a-back
pick-bearing
pick-me-up
pick-nosed
pick-off
pick-up
pick-up arm
pick-up sticks
pick-up-sticks
pickaback plane
pickax team
picke-devant
picked dogfish
picked on
picked up
picked-hatch
picker-up
pickerel frog
pickerel-weed
picket fence
picket fort
picket guard
picket line
picket patrol plane
picket pin
picket ship
picket tail
picking and choosing
picking out
picking up
picking up the check
picking up the tab
pickle grass
pickle green
pickle moth
pickle-cured
pickle-herring
pickup arm
pickup camera
pickup current
pickup service
pickup tube
pickup unit man
picture tube
picture tubes
picture window
picture wire
picture writing
picture, the
picture-borrowing
picture-broidered
picture-buying
picture-dealing
picture-hanging
picture-hung
picture-painting
picture-pasted
picture-seeking
picture-taking
picture-writing
pictures, the
piddling few
piddling number
pidgin English
pie baker
pie board
pie chart
pie dish
pie eater
pie filler
pie filling
pie in the sky
pie knife
pie maker
pie making
pie meat
pie piece
pie plate
pie rack
pie tin
pie vendor
pie wagon
pie wool
pie-baking
pie-eater
pie-eyed
pie-faced
pie-gow
pie-stuffed
piebald skin
piece accent
piece bien faite
piece brace
piece broker
piece by piece
piece de resistance
piece goods
piece justificative
piece mold
piece of advice
piece of ass
piece of cake
piece of eight
piece of evidence
piece of exchange
piece of gold
piece of good luck
piece of gossip
piece of guesswork
piece of land
piece of meat
piece of money
piece of news
piece of sharp practice
piece of silver
piece of virtu
piece of work
piece of writing
piece of your mind
piece out
piece price
piece price system
piece rate
piece together
piece wage
piece-dye
piece-dyed
piecing together
piecrust table
pied blackbird
pied goose
pied noir
pied wagtail
pied-
pied-a-terre
pied-billed
pied-billed grebe
pied-coated
pied-colored
pied-de-biche
pied-faced
pied-piping
pied-winged
piedmont glacier
pieds de cochon
pien check
pier arch
pier buttress
pier dam
pier glass
pier table
pier-head
pierce the ears
pierce the heart
pierce to the depths
pierced dollar
piercing eye
piercing look
piercing pain
piercing wind
pierian spring
pierre-perdu
pierrot show
piezo oscillator
piezo resonator
piezo-
piezoelectric crystal
piezoelectric effect
piezoelectric microphone
piff-paff
pig Latin
pig bed
pig boiling
pig breaker
pig cart
pig dealer
pig deer
pig hutch
pig in a poke
pig in clover
pig iron
pig lead
pig man
pig metal
pig tub
pig typhoid
pig wife
pig yoke
pig's ear
pig's wash
pig-back
pig-backed
pig-bed
pig-bellied
pig-breeding
pig-bribed
pig-chested
pig-dealing
pig-driving
pig-eating
pig-eyed
pig-faced
pig-farming
pig-fat
pig-footed
pig-haired
pig-haunted
pig-headed
pig-iron
pig-jaw
pig-jawed
pig-jump
pig-jumper
pig-keeping
pig-metal
pig-nut
pig-proof
pig-tailed
pig-tight
pigeon English
pigeon blood
pigeon breast
pigeon clock
pigeon flyer
pigeon grape
pigeon grass
pigeon hawk
pigeon hole
pigeon house
pigeon loft
pigeon pea
pigeon post
pigeon pox
pigeon timer
pigeon's milk
pigeon's-neck
pigeon-berry
pigeon-breast
pigeon-breasted
pigeon-breastedness
pigeon-hawk
pigeon-hearted
pigeon-hole
pigeon-house
pigeon-livered
pigeon-pea
pigeon-plum
pigeon-tailed
pigeon-toe
pigeon-toed
pigeon-wood
piggy bank
piggy-wiggy
piggyback car
piggyback control
piggyback rocket
pigment cell
pignus judiciale
pignus legale
pigs in blankets
pigs' feet
pigs' knuckles
pigsty bulwark
pigtail hook
pikaba hemp
pike hammer
pike perch
pike pole
pike sauce
pike squirrel
pike whale
pike-eyed
pike-gray
pike-snouted
piked dogfish
pil-
pilaster mass
pilaster strip
pile Pelion on Ossa
pile bent
pile bridge
pile builder
pile building
pile cap
pile drawer
pile drive
pile driver
pile dweller
pile dwelling
pile fender
pile hammer
pile house
pile in
pile it on
pile on
pile out
pile shoe
pile up
pile weave
pile weaving
pile wire
pile-built
pile-driven
pile-driver
pile-driving
pile-woven
pileated woodpecker
pilferage hazard
pilgrim bottle
pilgrim brown
pilgrim ring
pilgrim scallop
pilgrim's bottle
pilgrim's staff
pilgrimage psalm
pili nut
piling strip
pill bug
pill pipe
pill slab
pill tile
pill wood louse
pill, the
pill-boasting
pill-box
pill-dispensing
pill-gilding
pill-rolling
pill-shaped
pill-taking
pillar block
pilot ladder
pilot lamp
pilot light
pilot method
pilot model
pilot motor
pilot nut
pilot officer
pilot pin
pilot plan
pilot plane
pilot plant
pilot plow
pilot program
pilot raise
pilot signal
pilot skiff
pilot station
pilot trainee
pilot training
pilot tunnel
pilot valve
pilot waters
pilot whale
pilot wheel
pilot-bird
pilot-boat
pilot-fish
pilotless aircraft
pilsner glass
piltdown man
pima cotton
pimento cheese
pimento grass
pimiento cheese
pimpernel root
pimple copper
pimple metal
pin a medal on
pin basket
pin bit
pin block
pin borer
pin boy
pin bridge
pin buttock
pin cherry
pin clover
pin-money
pin-pallet escapement
pin-prick
pin-spotted
pin-striped
pin-tailed
pin-tailed sand grouse
pin-toed
pin-up
pin-wheel
pin-wing
pina cloth
pinacate bug
pinacone-pinacolin
pinafore dress
pinball machine
pinbone steak
pinc-pinc
pince-nez
pincer movement
pincer-shaped
pincers movement
pincers-shaped
pinch bar
pinch effect
pinch hit
pinch hitter
pinch of snuff
pinch out
pinch pennies
pinch phenomenon
pinch point
pinch runner
pinch running
pinch-
pinch-faced
pinch-hit
pinch-hit for
pinch-hitting
pinch-run
pinch-spotted
pinched with hunger
pinched-in
pinchgut money
pincushion distortion
pincushion-flower
pindo palm
pindova palm
pine away
pine bark
pine bark aphid
pine barren
pine barrens
pine borer
pine bullfinch
pine cone
pine end
pine finch
pine for
pine grass
pine grosbeak
pine marten
pine mouse
pine needle
pine nut
pine oil
pine resins
pine sawfly
pine sawyer
pine siskin
pine snake
pine tag
pine tar
pine tree
pine warbler
pine wool
pine worm
pine-apple
pine-barren
pine-bearing
pine-bordered
pine-built
pine-capped
pine-clad
pine-cone fish
pine-covered
pine-crested
pine-crowned
pine-dotted
pine-encircled
pine-fringed
pine-leaf scale
pine-needle oil
pine-sequestered
pine-shaded
pine-shipping
pine-tar oil
pine-tip moth
pine-tree
pine-tree flag
pine-wood
pineal apparatus
pineal body
pineal eye
pineal gland
pineapple cactus
pineapple disease
pineapple fiber
pineapple fungus
pineapple juice
pineapple oil
pineapple weed
piney dammar
piney tallow
piney woods
pinfall Wrestling
ping pong
ping-pong
pinhole camera
pinhole decay
pinhole pupil
pinion focusing microscope
pink bollworm
pink calla lily
pink champagne
pink coat
pink colors and pigments
pink corydalis
pink disease
pink elephant
pink elephants
pink eye
pink gin
pink grass
pink in
pink lady
pink locust
pink of perfection
pink poplar
pink rhododendron
pink salmon
pink salt
pink slip
pink spiders
pink spray
pink squirrel
pink stern
pink tea
pink vine
pink wine
pink-blossomed
pink-bound
pink-breasted
pink-checked
pink-cheeked
pink-coated
pink-colored
pink-eared
pink-eye
pink-eyed
pink-faced
pink-fleshed
pink-flowered
pink-foot
pink-footed
pink-hi
pink-leaved
pink-lipped
pink-ribbed
pink-shaded
pink-shelled
pink-skinned
pink-stermed
pink-striped
pink-tinted
pink-veined
pink-violet
pink-white
pinking iron
pinking shears
pinkster flower
pinnate-leaved
pinnate-ribbed
pinnate-veined
pinnatifid-lobed
pinned down
pinni-
pinning down
pinchle rummy
pinon grass
pinon pine
pinpoint bombing
pinpoint precision
pins and needles
pint pot
pint-pot
pint-size
pint-sized
pintado petrel
pintle boss
pintle chain
pintle hook
pinto bean
pintsch gas
pinup girl
pinwheel roll
pinxter flower
pinxter flower
pioneer day
pioneer tunnel
pious fiction
pious fraud
pip card
pip emma
pip, the
pip-pip
pip-squeak
pipe amygdules
pipe batten
pipe beetle
pipe berth
pipe binder
pipe bomb
pipe box
pipe clay
pipe cleaner
pipe coupling
pipe cutter
pipe die
pipe down
pipe dream
pipe dreamer
pipe dreaming
pipe fitter
pipe fitting
pipe founder
pipe isinglass
pipe line
pipe major
pipe maker
pipe metal
pipe of peace
pipe off
pipe organ
pipe rack
pipe roll
pipe stop
pipe thimble
pipe thread
pipe threader
pipe tongs
pipe tool
pipe up
pipe up a song
pipe vine
pipe welder
pipe wrench
pipe your eye
pipe-bending
pipe-boring
pipe-caulking
pipe-clay
pipe-clayey
pipe-clayish
pipe-cleaning
pipe-cutting
pipe-drawn
pipe-dream
pipe-dreaming
pipe-drilling
pipe-fish
pipe-joint cement
pipe-layer
pipe-line
pipe-necked
pipe-playing
pipe-puffed
pipe-roll
pipe-shaped
pipe-smoker
pipe-stone
pipe-tapping
pipe-thawing
pipe-threading
piperonyl alcohol
piperonyl aldehyde
piperonyl butoxide
piston power
piston pump
piston ring
piston rod
piston spring
piston valve
piston-valve engine
pit against
pit against one another
pit bank
pit boss
pit brink
pit coal
pit craneman
pit dwelling
pit grave
pit hand
pit head
pit house
pit man
pit of Acheron
pit of your stomach
pit prop
pit sample
pit saw
pit sawing
pit sawyer
pit tomb
pit viper
pit-a-pat
pit-black
pit-blackness
pit-coal
pit-eyed
pit-head frame
pit-headed
pit-hole
pit-marked
pit-pat
pit-patter
pit-rotted
pit-specked
pit-working
pita fiber
pita fibre
pita flax
pita floja
pitch accent
pitch and plunge
pitch and toss
pitch apple
pitch black
pitch board
pitch box
pitch camp
pitch chain
pitch chisel
pitch circle
pitch coal
pitch cone
pitch cylinder
pitch discharger
pitch factor
pitch in
pitch indicator
pitch into
pitch kettle
pitch line
pitch on
pitch opal
pitch pine
pitch pipe
pitch point
pitch pot
pitch ratio
pitch shot
pitch speed
pitch surface
pitch upon
pitch your tent
pitch-and-putt
pitch-and-run
pitch-and-run shot
pitch-and-toss
pitch-black
pitch-blackened
pitch-blackness
pitch-blende
pitch-brand
pitch-brown
pitch-colored
pitch-dark
pitch-darkness
pitch-diameter
pitch-faced
pitch-farthing
pixy ring
pixy stool
pixy-led
pizza pie
place a value on
place after
place against
place an order
place at your disposal
place before
place bill
place brick
place card
place confidence in
place emphasis on
place hitter
place holder
place hunter
place in
place in difficulty
place in office
place in the foreground
place in the sun
place in your way
place isomerism
place itself
place kick
place kicker
place mat
place name
place of arms
place of articulation
place of assignation
place of confinement
place of habitation or resort
place of torment
place of trade
place of vice
place of worship
place open
place out at interest
place parallel to
place reliance in
place reliance on
place seeker
place setting
place side by side
place the blame for
place the blame on
place the responsibility for
place to live
place to your account
place to your credit
place trust in
place under arrest
place under oath
place upon
place upon record
place where you hang your hat
place your feet carefully
place yourself
place-begging
place-brick
place-grabbing
place-holder
place-holding
place-hunter
place-hunting
place-kick
place-kicker
place-loving
place-money
place-name
place-names
place-naming
place-proud
place-seeking
placebo effect
placement examination
placement kick
placement test
placer claim
placer deposit
placer gravel
placer miner
placer mining
placery boom
placid-featured
placid-mannered
placing-out
placita coronae
placket hole
placo-
plagal cadence
plagal mode
plagio-
plain to be seen
plain tripe
plain wanderer
plain weave
plain words
plain-bodied
plain-bred
plain-clothed
plain-clothes man
plain-darn
plain-dressing
plain-edged
plain-faced
plain-featured
plain-garbed
plain-headed
plain-hearted
plain-laid
plain-looking
plain-mannered
plain-pranked
plain-soled
plain-speaking
plain-spoken
plain-spokenly
plain-spokenness
plain-work
plainclothes man
plan ahead
plan expenditures
plan of action
plan on
plan out
plan position indicator
plan-
planar process
planching nail
plane angle
plane chart
plane curve
plane figure
plane geometry
plane handlers
plane iron
plane of incidence
plane polarization
plane sailing
plane surveying
plane table
plane tree
plane trigonometry
plane-faced
plane-parallel
plane-polarized
plane-shear
plane-sheer
plane-table
plane-tabler
plane-tree
planer center
planer head
planer knife
planer saw
planer tree
planet differential
planet gear
planet wheel
planet-stricken
planet-struck
planetary colony
planetary electrons
planetary house
planetary mansion
planetary nebula
planetary precession
planetary shell
planetesimal hypothesis
plani-
planing hull
planing machine
planing mill
plank buttress
plank down
plank plating
plank road
plank scraper
plank-shear
plank-sheer
planked steak
plankton net
planktonic algae
planned economy
planned parenthood
planning blight
planning board
planning function
planning hull
plano-
plano-concave
plano-convex
planographic printing
planomilling machine
plant a mine
plant anatomy
plant and animal life
plant beard
plant breeder
plant bug
plant cane
plant cell
plant cutter
plant disease
plant factor
plant families
plant feeder
plant fibrin
plant food
plant formation
plant gapeseed
plant geographer
plant geography
plant hair
plant hemp
plant hormone
plant house
plant insulin
plant kingdom
plant life
plant louse
plant part
plant pathology
plant physiology
plant root
plant seed
plant stem
plant thermal efficiency
plant worship
plant worshiper
plant yourself
plant-animal
plant-cutter
plant-eater
plant-eating
plantain lily
plantain squirrel
plantain tree
plantain-eater
plantain-leaved
plantar ligament
plantar nerves
plantar reflex
plantar veins
plantation acre
plantation rubber
planter's punch
planting stick
plantlike flagellate
plash wheel
plasm-
plasma body
plasma cell
plasma cell leukemia
plasma engine
plasma jet
plasma membrane
plasma substitute
plasma thromboplastic component
plasma torch
plasma transfusion
plasma-jet propulsion
plasmo-
plaster baker
plaster bond
plaster burner
plaster cast
plaster casting
plaster chopper
plaster down
plaster jacket
plaster of Paris
plaster of paris
plaster spreader
plastering trowel
plastic art
plastic bandage
plastic binding
plastic bomb
plastic explosive
plastic flow
plastic glass
plastic operation
plastic paint
plastic person
plastic plate
plastic plywood
plastic surgeon
plastic surgery
plastic tape
plastic wrap
plat du jour
plat-eye
plat-footed
plate armor
plate armour
plate battery
plate beam
plate bender
plate bone
plate calender
plate circuit
plate clutch
plate column
plate conductance
plate coupling
plate culture
plate current
plate cutter
plate cylinder
plate driller
plate engraving
plate fulcrum scale
plate gear
plate girder
plate glass
plate glazing
plate heater
plate horse
plate jig
plate keel
plate machine
plate maker
plate mark
plate modulation
plate money
plate oven
plate pail
plate paper
plate piece
plate press
plate printer
plate proof
plate race
plate rail
plate resistance
plate shop
plate tectonics
plate tower
plate tracery
plate-bending
plate-carrier
plate-collecting
plate-cutting
plate-dog
plate-drilling
plate-glass
plate-glazed
plate-incased
plate-layer
plate-mark
plate-mounting
plate-punching
plate-roll
plate-rolling
plate-scarfing
plate-shaped
plate-shearing
plate-tossing
plated stem
platen press
plates of meat
platform balance
platform car
platform deck
platform elevator
platform frame
platform harvester
platform orator
platform oratory
platform rocker
platform scale
platform speaker
platform speaking
platform spring
platform ticket
platform wagon
platin-
platina yellow
platinic chloride
platino-
platinocyanic acid
platinoso-
platinum ammine
platinum black
platinum blond
platinum blonde
platinum lamp
platinum metal
platinum paper
platinum process
platinum sponge
platinum thermometer
platinum-blond
platitudinous ponderosity
platonic love
platoon fire
platoon school
platoon sergeant
platoon system
plats du jour
platted stem
platter-faced
platy-
play God
play Russian roulette
play a bunco game
play a deep game
play a desperate game
play a double game
play a double role
play a joke on
play a lone hand
play a part
play a part in
play a practical joke
play a practical joke upon
play a role
play a role in
play a scene
play a trick on
play a waiting game
play acting
play actor
play actorism
play actress
play against
play agent
play along
play around
play around with
play at
play at cross-purposes
play at dice
play at fast and loose with
play at hide and seek
play back
play backer
play ball
play bopeep
play by ear
play by the rules
play cat and mouse with
play construction
play debt
play dirty pool
play doctor
play down
play drum
play ducks and drakes with
play dumb
play d
play fair
play fast and loose
play fast and loose with
play favorites
play first fiddle
play fixer
play footsie with
play for
play for a sucker
play for time
play games
play group
play havoc with
play hell
play hell with
play hide and seek
play hob
play hob with
play hooky
play into the hands of
play it by ear
play it just right
play it like a master
play jazz
play merry hell with
play mischief with
play music
play of color
play of colors
play of fancy
play of light
play of wit
play off
play on
play on the feelings
play on words
play one false
play opposite
play out
play peekaboo
play pipe
play politics
play possum
play pranks
play right
play safe
play script
play second fiddle
play someone false
play the badger game
play the buffoon
play the deuce
play the deuce with
play the devil
play the devil with
play the drums
play the field
play the fool
play the game
play the hell with
play the hypocrite
play the lead
play the market
play the merry hell with
play the mischief with
play the part of
play the ponies
play the pontiff
play the same broken record
play the same old record
play the same old song
play the same old tune
play the spy
play the violin
play therapy
play to the galleries
play to the gallery
play tricks
play truant
play up
play up to
play upon
play violin
play with
play with fire
play with marked cards
play with yourself
play you off against another
play your cards
play your cards well
play your part
play your proper role
play-act
play-bill
play-book
play-by-play
play-day
play-down
play-judging
play-loving
play-off
play-pretty
play-producing
play-reading
playback machine
played out
player piano
playful as a kitten
playground ball
playing God
playing area
playing around
playing by ear
playing card
playing cards
playing engagement
playing field
playing lightly over
playing possum
playing suit
playing trick
playing with fire
playing with yourself
plaza de toros
plea bargaining
plead for
plead guilty
plead ignorance
plead with
plead your case
plead your cause
pleasant company
pleasant journey
pleasant reception
pleasant stimulation
pleasant time
pleasant-eyed
pleasant-faced
pleasant-featured
pleasant-looking
pleasant-mannered
pleasant-minded
pleasant-natured
pleasant-sounding
pleasant-spirited
pleasant-spoken
pleasant-tasted
pleasant-tasting
pleasant-tongued
pleasant-voiced
pleasant-witted
please reply
please the crowd
please the nostrils
please yourself
pleased as Punch
pleased with
pleased with a rattle
pleased with yourself
pleasing style
pleasing to the eye
pleasure dome
pleasure dome of Kubla Khan
pleasure garden
pleasure giver
pleasure ground
pleasure lover
pleasure principle
pleasure seeker
pleasure taker
pleasure trip
pleasure-bent
pleasure-bound
pleasure-giving
pleasure-greedy
pleasure-loving
pleasure-pain
pleasure-seeker
pleasure-seeking
pleasure-shunning
pleasure-tempted
pleasure-tired
pleasure-wasted
pleasure-weary
pleasures of the mind
pledge keeper
pledge of secrecy
pledge taker
pledge the health of
pledge your honor
pledge your word
pledge-bound
pledge-free
plein air
plein jeu
plein-air
plein-air school
plein-airist
pleio-
plenary council
plenary indulgence
plenary inspiration
plenipotentiary power
pleno jure
plenty as blackberries
plenty good enough
plenty of notice
plenty to do
plenum system
pleo-
pleroma violet
plesio-
pleur-
pleurisy root
pleuro-
pleuro-peritoneum
pleuro-pneumonia
pleuropneumonia-like organism
pliant-bodied
pliant-necked
plica polonica
plicato-
plight your faith
plight your honor
plight your troth
plighted bride
plighted faith
plighted love
plighted troth
plimsoll mark
plinth block
plinth course
plio-
plisse crepe
plod along
plop down
plot a course
plot line
plot lines
plot of ground
plot of land
plot out
plot survey
plottage increment
plottage value
plotting board
plotting paper
plough back
plough-boy
plough-head
plough-land
plough-monday
plough-staff
plough-tail
ploughman's spikenard
plover egg
plover page
plover quail
plover-billed
plover-page
plow alms
plow anchor
plow back
plow back into
plow drill
plow hand
plow horse
plow iron
plow out
plow paddle
plow press
plow sole
plow steel
plow team
plow the deep
plow tree
plow truck
plow under
plow up
plow-bred
plow-cloven
plow-shaped
plow-torn
plowshare bone
pluck a crow with
pluck by the beard
pluck out
pluck the beard
pluck up
pluck up by the roots
pluck up heart
pluck up your spirits
pluck with someone
pluck-buffet
plug along
plug and feathers
plug at
plug away
plug bib
plug cap
plug casing
plug cock
plug drill
plug frame
plug hat
plug in
plug rod
plug switch
plug the same theme
plug tobacco
plug up
plug-hatted
plug-ugly
plugged up
plum bladder
plum blotch
plum brandy
plum broth
plum curculio
plum duff
plum fir
plum gouger
plum granite
plum grape
plum pocket
plum pudding
plum purple
plum scab
plum thrips
plum tree
plum violet
plum weevil
plum wine
plum yew
plum-blue
plum-brown
plum-cake
plum-colored
plum-duff
plum-green
plum-pie
plum-porridge
plum-purple
plum-shaped
plum-sized
plum-tinted
plum-tree
plumb bob
plumb bond
plumb joint
plumb level
plumb line
plumb rule
plumb the depths
plumb-
plumb-bob
plumb-line
plumb-rule
plumbago blue
plumbago gray
plumbago slate
plumber block
plumber's snake
plumber-block
plumbo-
plumbous oxide
plume feather
plume grass
plume moss
plume moth
plume nutmeg
plume of smoke
plume polypody
plume poppy
plume stick
plume yourself on
plume-crowned
plume-decked
plume-dressed
plume-embroidered
plume-fronted
plume-gay
plume-like
plume-plucked
plume-plucking
plume-soft
plume-stripped
plumed tussock grass
plummer block
plummer-block
plummer line
plump as a dumpling
plump as a partridge
plump down
plump fact
plump for
plump in the middle
plump upon
plumby coconut
plunge bath
plunge battery
plunge headlong
plunge in
plunge in water
plunge into
plunge into debt
plunge into difficulties
plunge into dissipation
plunge rod
plunge the world into war
plunge you into despair
plunge you into sorrow
plunged in debt
plunged in grief
plunger bucket
plunger elevator
plunger magnet
plunger piston
plunger pump
plunging fire
plunging neckline
plunk down
plunk down the money
plunk for
plural number
plural system
plural vote
plural voting
pluralistic idealism
pluri-
plus c'est la meme chose
plus ca change
plus fours
plus head
plus lens
plus ou moins
plus sight
plus sign
plus thread
plus-foured
plus-fours
plush copper
plush stitch
plutonic rock
plutonium bomb
plutonium reactor
ply metal
ply rolling
ply the oar
ply upon
ply yarn
ply your trade
plymouth brethren
plymouth cloak
plymouth rock
plywood saw
pocket lighter
pocket money
pocket mouse
pocket notebook
pocket picking
pocket piece
pocket plum
pocket print
pocket radio
pocket rat
pocket sheriff
pocket the affront
pocket trumpet
pocket veto
pocket watch
pocket-book
pocket-eyed
pocket-handkerchief
pocket-knife
pocket-money
pocket-size
pocket-sized
poco a poco
poco-curante
pod auger
pod borer
pod corn
pod fern
pod gimlet
pod rot
pod shrimp
pod-shaped
poddly-dodger
podo-
podophyllin resin
poe-bird
poecilo-
poet laureate
poet's narcissus
poet-artist
poet-dramatist
poet-farmer
poet-historian
poet-humorist
poet-in-residence
poet-king
poet-laureateship
poet-musician
poet-novelist
poet-painter
poet-patriot
poet-pilgrim
poet-playwright
poet-plowman
poet-preacher
poet-priest
poet-princess
poet-saint
poet-satirist
poet-seer
poet-thinker
poet-warrior
poetic division
poetic genius
poetic image
poetic imagery
poetic imagination
poetic inspiration
poetic justice
poetic kineticist
poetic kinetics
poetic language
poetic licence
poetic license
poetic prose
poetic realism
poetic realist
poetic source
poetic tachism
poetic tachist
poetic works
poetico-
poetico-antiquarian
poetico-architectural
poetico-grotesque
poetico-mystical
poetico-mythological
poetico-philosophic
poetry Muses
poetry image
poetry-proof
poets laureate
pogo stick
pogo-stick
poikilo-
point a moral
point alphabet
point at
point at issue
point bar
point blanket
point boat
point champain
point charge
point chisel
point co-ordinate
point count
point d'Angleterre
point d'appui
point d'esprit
point de Hongrie
point de gaze
point defect
point draftsman
point duchesse
point duty
point fuse
point group
point handle
point hole
point in question
point indirectly to
point lace
point of a pin
point of articulation
point of convergence
point of departure
point of difference
point of etiquette
point of flight
point of honor
point of honour
point of inflection
point of interest
point of land
point of no return
point of order
point of repose
point of sailing
point of the chin
point of time
point of vantage
point of view
point off
point out
point out to
point paper
point rail
point salient
point set
point source
point space
point switch
point system
point tense
point the finger at
point the finger of scorn
point the way
point to
point to be solved
point transformation
point up
point-bearing pile
point-blank
point-blank refusal
point-by-point comparison
point-contact transistor
point-device
point-duty
point-event
point-junction transistor
point-lace
point-laced
point-on
point-particle
point-ring sight
point-set
point-set topology
point-to-point
point-to-point navigation
point-to-point race
pointed arch
pointed fox
pointed projection
pointing bone
pointing chisel
pointing doors
pointing mark
pointing out
pointing to
pointing tool
pointing trowel
points d'appui
points of the compass
poised against one another
poison bean
poison bush
poison dogwood
poison elder
poison gas
poison haw
poison hemlock
poison injector
poison ivy
poison mask
poison oak
poison parsley
poison pen
poison rye grass
poison sumac
poison sumach
poison tobacco
poison-laden
poison-pen
poison-pen letter
poison-pen writer
poison-sprinkled
poison-tainted
poison-tipped
poison-toothed
poisonous plant
poisonous plants
poitrine d'agneau
poitrine de veau
poke along
poke around
poke at
poke bonnet
poke brim
poke check
poke full of holes
poke fun at
poke in
poke into
poke out
poke the fire
poke your nose in
poke your nose into something
poke-bonnet
poke-bonneted
pole horse
pole jump
pole jumper
pole lathe
pole mast
pole of cold
pole piece
pole pitch
pole plate
pole screen
pole star
pole strap
pole topgallant mast
pole trawl
pole vault
pole vaulter
pole vaulting
pole-armed
pole-axe
pole-dried
pole-jump
pole-masted
pole-shaped
pole-stack
pole-trap
pole-vault
pole-vaulter
poles apart
poles asunder
polewood stage
poli-sci
police action
police alarm
police badge
police band
police baton
police blotter
police boat
police captain
police car
police chief
police club
police commissioner
police constable
police court
police detective
police dog
police force
police headquarters
police inquiry
police inspector
police interrogation
police investigation
police judge
police jury
police justice
police lantern
police lieutenant
police magistrate
police matron
police office
police officer
police power
police reporter
police sergeant
police state
police station
police up
police van
police wagon
police whistle
police-up
policeman bird
policeman's helmet
policemanice station
policy loan
policy maker
policy racket
policy science
policy shop
policy year
policy-holder
polio vaccine
polish off
polish the apple
polish the platter
polish up
polished rice
polissoir wheel
polite act
polite behavior
polite commendation
polite deportment
polite literature
polite society
political activism
political activist
political affairs
political animal
political arithmetic
political ballot
political behavior
political belief
political campaign
political canard
political candidate
political caucus
political commissar
political conservatism
political convention
political corruption
political dabbler
political doubletalk
political economist
political economy
political election
political faith
political front
political geography
political government
political hack
political henchman
political hopeful
political influence
political intrigue
political intriguer
political jargon
political leader
political leadership
political liberty
political machine
political map
political movement
political nomination
political organization
political party
political patronage
political philosophy
political platform
political police
political policy
political principle
political principles
political prisoner
political program
political question
political realist
political referendum
political science
political scientist
political theory
political worker
political-minded
politician-proof
poli-rico-
poli-rico-arithmetical
poli-rico-commercial
poli-rico-diplomatic
poli-rico-ecclesiastical
poli-rico-economical
poli-rico-ethical
poli-rico-geographical
poli-rico-judicial
poli-rico-military
poli-rico-moral
poli-rico-orthodox
poli-rico-peripatetic
poli-rico-religious
poli-rico-sacerdotal
poli-rico-scientific
poli-rico-social
poli-rico-theological
politics with bloodshed
polka dot
polka mazurka
polka-dot
polka-dotted
poll booth
poll degree
poll end
poll evil
poll parrot
poll pick
poll tax
poll watcher
poll-deed
poll-parrot
poll-parroty
pollen analysis
pollen basket
pollen brush
pollen catarrh
pollen chamber
pollen count
pollen mass
pollen plate
pollen sac
pollen tube
pollen-covered
pollen-dusted
pollen-sprinkled
pollice verso
pollin-
polling booth
polling place
polling station
polly mountain
polly-fox
polly-parrot
polo ball
polo cart
polo coat
polo ground
polo neck
polo pony
polo shirt
polt-foot
poly-
poly-mountain
polyarthritis rheumatism
polychrest salt
polyconic projection
polyethylene glycol
polyglot dictionary
polygonal number
polyhedral angle
polyhedron formula
polymeric amide
polymorpho-
polymorphonuclear leucocyte
polymorphous perversity
polymorphous-perverse
polyneuritic psychosis
polynomial ring
polyphase induction motor
polyphonic music
polyphonic prose
polyphosphoric acid
polypod brake
polypody family
poor as a church mouse
poor behavior
poor bet
poor box
poor boy
poor boy sweater
poor clare
poor creature
poor cuckoldy knave
poor custody
poor debtor
poor devil
poor diction
poor excuse
poor farm
poor fist
poor gas
poor guardianship
poor health
poor husbandry
poor imitation
poor in spirit
poor john
poor judgment
poor law
poor lookout
poor man
poor man's gout
poor oat
poor opinion
poor outlook
poor person
poor possibility
poor prognosis
poor prospect
poor relation
poor relief
poor reputation
poor stewardship
poor taste
poor timing
poor tool
poor unfortunate
poor white
poor white trash
poor, the
poor-blooded
poor-box
poor-charactered
poor-clad
poor-debtor law
poor-do
poor-feeding
poor-folksy
poor-law
poor-minded
poor-rate
poor-sighted
poor-spirited
poor-spiritedly
poor-spiritedness
poor-will
poorly argued
poorly off
pop art
pop artist
pop ash
pop at
pop concert
pop culture
pop fly
pop foul
pop hero
pop in
pop into your head
pop literature
pop music
pop off
pop out
pop safety valve
pop the question
pop up
pop upon
pop valve
pop wine
pop your cherry
pop-
pop-corn
pop-gun
pop-off
pop-shop
pop-up
popcorn balls
popcorn flower
pope joan
pope's eye
pope’s head
pope’s nose
pope-holy
popeye catalufa
popinjay green
poplar birch
poplar borer
poplar box
poplar hawk
poplar worm
poplar-covered
poplar-crowned
poplar-flanked
poplar-leaved
poplar-lined
poplar-planted
popliteal space
popper cake
poppet head
poppet leg
poppet valve
poppet-head
popping crease
popping-crease
poppy anemone
poppy ash
poppy bee
poppy mallow
poppy oil
poppy seed
poppy-bordered
poppy-colored
poppy-crimson
poppy-crowned
poppy-flowered
poppy-haunted
poppy-head
poppy-pink
poppy-red
poppy-seed
poppy-sprinkled
poppyseed oil
pops concert
poptical art
poptical artist
popular air
popular belief
popular concert
popular etymology
popular front
popular hero
popular idol
popular literature
popular music
popular prices
popular psychology
popular regard
popular singer
popular song
popular sovereignty
popular taste
popular tune
popular vote
popular-priced
population explosion
population parameter
population pressure
population pyramid
porbeagle shark
porcelain clay
porcelain enamel
porcelain glass
porcelain green
porcelain maker
porcelain making
porcelain shell
porcelain tower
porch chair
porch climber
porch hammock
porch lamp
porch railing
porch rocker
porch screen
porch seat
porch settee
porch swing
porcupine anteater
porcupine balls
porcupine beater
porcupine boiler
porcupine crab
porcupine disease
porcupine fish
porcupine grass
porcupine man
port-crayon
port-hole
port-mouthed
port-royal
port-sale
port-vent
port-wine
port-wine mark
port-wine stain
port-winy
portable TV set
portable drill
portable engine
portable field unit
portable radio
portable saw
portable television set
portal frame
portal vein
portal-to-portal
portal-to-portal pay
portative organ
portcullis money
porte cochere
porte-
porte-cochere
porte-monnaie
porte-monnaies
porteous roll
porter aux nues
porter chair
porter's lodge
porter-house
porterhouse steak
porthole die
portia tree
portion off
portion or point of time
portion out
portioned out
portland cement
portmanteau word
portrait bust
portrait camera
portrait flask
portrait lens
portrait painter
portrait painting
positive misprision
positive organ
positive philosophy
positive polarity
positive pole
positive ray
positive reinforcement
positive statement
positive transference
positive valence
positive-ion accelerator
positively right
poss stick
poss tub
posse comitatus
possess authority
possess incriminating evidence
possess nine lives
possess one of the facts
possess sexually
possess your soul in patience
possess yourself
possess yourself of
possessed of
possessed with a demon
possessed with a devil
possessive adjective
possessive case
possessive pronoun
posset pot
possibility upon a possibility
possible choice
possum haw
possum oak
post auger
post bill
post bills
post binder
post boat
post brake
post captain
post car
post card
post cedar
post chaise
post chariot
post coach
post croaker
post day
post exchange
post hoc
post hoc ergo propter hoc
post horn
post horse
post hospital
post house
post insulator
post locust
post meridiem
post mortem
post note
post oak
post obitum
post octavo
post office
post office box
post partum
post quarto
post race
post road
post school
post term
post time
post town
post trader
post up
post-
post-Adamic
post-Advent
post-Alexandrine
post-Aristotelian
post-Augustan
post-Augustinian
post-Aztec
post-Babylonian
post-Biblical
post-Caesarean
post-Cambric
post-Carboniferous
post-Carolingian
post-Cartesian
post-Cesarean
post-Chaucerian
post-Christian
post-Christmas
post-Columbian
post-Confucian
post-Constantinian
post-Copernican
post-Crusade
post-Darwinian
post-Davidic
post-Devonian
post-Diocletian
post-Easter
post-Elizabethan
post-Eocene
post-Galilean
post-Gothic
post-Hittite
post-Homeric
post-Ibsen
post-Impressionist
post-Johnsonian
post-Jurassic
post-Justinian
post-Jutland
post-Kansan
post-Kantian
post-Leibnitzian
post-Leibnizian
post-Lent
post-Linnean
post-Marxian
post-Mendelian
post-Mesozoic
post-Miocene
post-Mishnaic
post-Mishnic
post-Mishnical
post-Mosaic
post-Mycenean
post-Napoleonic
post-Newtonian
post-Nicene Fathers
post-Oligocene
post-Ordovician
post-Paleozoic
post-Pauline
post-Pentecostal
post-Permian
post-Petrine
post-Phidian
post-Platonic
post-Pleistocene
post-Pliocene
post-Pythagorean
post-Reformation
post-Renaissance
post-Restoration
post-Revolutionary
post-Roman
post-Romantic
post-Shakespearean
post-Shakespearian
post-Silurian
post-Socratic
post-Talmudic
post-Talmudical
post-Tertiary
post-Transcendental
post-Triassic
post-Tridentine
post-Vedic
post-Victorian
post-Volstead
post-audit
post-bag
post-bellum
post-boat
post-boy
post-captain
post-chaise
post-classical
post-communion
post-cyclic
post-date
post-diluvial
post-diluvian
post-factum
post-fine
post-free
post-glacial
post-graduate
post-haste
post-horn
post-house
post-impressionism
post-impressionistic
post-juvenal
post-kantian
postero-
postgraduate education
postgraduate school
posthole auger
posthole spade
posthumous fame
posthypnotic suggestion
posting house
postlapsarian nature
postlapsarian state
postmaster general
postmaster-generalship
postmasters general
postmistress-ship
postmortem diagnosis
postmortem examination
postnasal drip
postoperative shock
postpainterly abstraction
postpainterly abstractionist
posture maker
posture making
posture-maker
pot ale
pot arch
pot barley
pot bottom
pot cheese
pot companion
pot culture
pot derby
pot earth
pot fisher
pot fisherman
pot furnace
pot garden
pot hat
pot kiln
pot lace
pot layering
pot lead
pot liquor
pot maker
pot marigold
pot marjoram
pot metal
pot plant
pot roast
pot shot
pot spinning
pot still
pot valve
pot wheel
pot-au-feu
pot-bellied
pot-belly
pot-boiler
pot-bound
pot-boy
pot-clay
pot-color
pot-earth
pot-gun
pot-gutted
pot-herb
pot-hole
pot-hook
pot-house
pot-hunter
pot-lead
pot-lid
pot-liquor
pot-luck
pot-metal
pot-pie
pot-pourri
pot-rustler
pot-shaped
pot-shot
pot-sick
pot-valiance
pot-valiancy
pot-valiant
pot-valiantly
pot-valiantry
pot-valliance
pot-valor
pot-valorous
pot-wabbler
pot-walloper
pot-walloping
pot-wobbler
potage a la julienne
potage a la tete de veau
potage a la tortue
potage au tomate
potage aux herbes
potage volaille a la reine
potash alum
potash feldspar
potash granite
potash hunger
potash niter
potash soap
potassio-
potassium acetate
potassium acid carbonate
potassium acid oxala
potassium acid oxalate
potassium acid sulphate
potassium acid tartrate
potassium alum
potassium amide
potassium antimonate
potassium antimonyl
potassium antimonyl tartrate
potassium argon dating
potassium bizartrate
potassium bicarbonate
potassium bichromate
potassium binoxalate
potassium bisulfate
potassium bisulphate
potassium bitartrate
potassium bromide
potassium carbonate
potassium chloride
potassium chromate
potassium chrome alum
potassium chromic sulfate
potassium cobaltinitrite
potassium cyanide
potassium dichromate
potassium ethyl xanthogenate
potassium ferricyanide
potassium ferrocyanide
potassium fluoride
potassium hydrate
potassium hydrogen tartrate
potassium hydroxide
potassium hypoantimonate
potassium hypochlorite
potassium iodide
potassium manganate
potassium myronate
potassium nitrate
potassium oxalate
potassium permanganate
potassium persulphate
potassium rhodanide
potassium sodium tartrate
potassium sulfate
potassium sulphate
potassium tetroxalate
potassium thiocyanate
potassium xanthate
potassium-argon dating
potato aphid
potato apple
potato ball
potato bean
potato beetle
potato blight
potato bug
potato cake
potato canker
potato cellar
potato chip
potato chips
potato crisp
potato fern
potato flour
potato fork
potato fungus
potato hook
potato masher
potato mosaic
potato moth
potato mottle
potato murra
potato onion
potato peeler
potato race
potato salad
potato scab
potato set
potato soup
potato tree
potato vine
potato wart
potato weevil
potato whisky
potato worm
potato-sick
potbellied stove
potcher engine
potcher man
potent cross
potent-counterpotent
potential cautery
potential difference
potential divider
potential energy
potential gradient
potentiometric titration
pothooks and hangers
pott octavo
pott quarto
pott's disease
potter away
potter bee
potter wasp
potter's clay
potter's earth
potter's field
potter's wheel
pattern ore
pottery tissue
pottery tree
potting shed
pottle pot
pottle-bellied
pottle-bodied
pottle-crowned
pottle-deep
potty-chair
pou de ciel
pou sto
pouch bone
pouch-shaped
pouched mole
pouched rat
poulard wheat
poulette sauce
poul-de-soie
poulter's measure
poultry breeder
poultry breeding
poultry buyer
pound of flesh
pound out
pound sovereign
pound sterling
pound the ear
pound troy
pound-cake
pound-fool
pound-foolish
pound-foolishness
pound-foot
pound-force
pound-trap
pound-weight
pounds in after trim
pounds of thrust
pour a broadside into
pour balm into
pour balm on
pour balm upon
pour down
pour down the drain
pour down the rathole
pour forth
pour in
pour it on
pour money into
pour oil on
pour oil on the blaze
pour oil on the fire
pour oil on troubled waters
pour oil upon
pour on
pour on the coal
pour out
pour out blood like water
pour out the vials of your wrath
pour out vials of wrath
pour over
pour plate
pour point
pour test
pour water into a sieve
pour water on
pour with rain
pourer-off
pourer-out
pouring basin
pouring basket
pouring box
pouring rain
pousse-caf
pousse-cafe
poverty birch
poverty grass
poverty plant
poverty subculture
poverty-proof
poverty-stricken
pow wow
powder and shot
powder barrel
powder beef
powder blue
powder box
powder boy
powder burn
powder charge
powder chest
powder compact
powder down
powder flag
powder flask
powder grain
powder gray
powder horn
powder house
powder keg
powder magazine
powder maker
powder metallurgy
powder mill
powder monkey
powder paper
powder pimp
powder post
powder puff
powder room
powder ship
powder snow
powder train
powder-black
powder-blue
powder-charged
powder-down
powder-flask
powder-gray
powder-horn
powder-laden
powder-marked
powder-monkey
powder-post beetle
powder-posted
powder-puff
powder-scorched
powder-tinged
powdered milk
powdered soap
powdered sugar
powdery mildew
power amplifier
power base
power behind the throne
power brake
power brakes
power broker
power cab
power cable
power chain
power cruiser
power cut
power dive
power drill
power duster
power elite
power engineer
power engineering
power factor
power for good
power gas
power grab
power jack
power line
power load
power loading
power loom
power meter
power microscope
power mower
power of appointment
power of attorney
power of expression
power of mind
power of mind over matter
power of money
power of reason
power of sight
power of suggestion
power of the keys
power of thought
power off
power pack
power plant
power play
power plug
power point
power politics
power press
power pump
power punch
power rail
power reactor
power relay
power sander
power saw
power sawyer
power series
power servo
power set
power shaft
power shears
power shovel
power source
power spin
power sprayer
power station
power steering
power stroke
power structure
power struggle
power supply
power take-off
power to act
power tool
power train
power transformer
power tube
power vacuum
power vessel
power weaver
power wheel
power-assisted steering
power-breeder reactor
power-directional relay
power-dive
power-dived
power-diving
power-dove
power-driven
power-elated
power-hunger
power-hungry
power-loom
power-operate
power-operated
power-packed
power-plant engineer
power-plant engineering
power-political
power-riveting
power-saw
power-sawed
power-sawing
power-sawn
power-seeking
power-supply engineer
powered flight
powerful like
powers of darkness
powers that be
powers that be, the
pox-marked
practical ability
practical art
practical consequence
practical joke
practical joker
practical knowledge
practical mechanics
practical mind
practical nurse
practical person
practical piece
practical politics
practical prop
practical reason
practical scientist
practical skill
practical test
practical theology
practical utility
practical wisdom
practical-minded
practical-mindedness
practice a profession
practice at the bar
practice curve
practice domesticity
practice fraud upon
practice landing
practice law
practice medicine
practice nonviolence
practice of medicine
practice on your credulity
practice philosophy
practice self-control
practice self-denial
practice sorcery
practice spiritualism
practice teacher
practice teaching
practice the golden rule
practice upon
practice-teach
practiced hand
praedium dominans
praedium serviens
praemunientes clause
praemunientes writ
praetorian guard
pragmatic logic
pragmatic sanction
pragmatic theory
pragmatic theory of truth
prairie acacia
prairie artichoke
prairie aster
prairie breaker
prairie button snakeroot
prairie chicken
prairie clover
prairie coneflower
prairie crab apple
prairie dock
prairie dog
prairie falcon
prairie fire
prairie fowl
prairie fox
prairie goose
prairie grouse
prairie hen
prairie itch
prairie june grass
prairie larkspur
prairie lily
prairie mallow
prairie marmot
prairie owl
prairie oyster
prairie phlox
prairie pine
prairie pointer
prairie poppy
prairie rattlesnake
prairie rocket
prairie rose
prairie sage
prairie schooner
prairie smoke
prairie soil
prairie squirrel
prairie turnip
prairie violet
prairie wakerobin
prairie warbler
prairie wolf
praise Father
praise God
praise and glorify God
praise meeting
praise the Lord
praise to excess
praise to the skies
praise ye Him all His hosts
praise ye the Lord
praise-begging
praise-deserving
praise-fed
praise-giving
praise-spoiled
praise-winning
pram bow
prank up
pre-Buddhist
pre-Byzantine
pre-Cambrian
pre-Cambridge
pre-Canaanite
pre-Canaanic
pre-Carboniferous
pre-Carolingian
pre-Catholic
pre-Celtic
pre-Centennial
pre-Chaucerian
pre-Chellean
pre-Chinese
pre-Christian
pre-Christianic
pre-Christmas
pre-Columbian
pre-Columbian art
pre-Congregationalist
pre-Congress
pre-Conquest
pre-Copernican
pre-Copernicanism
pre-Crusade
pre-Dantean
pre-Darwinian
pre-Darwinianism
pre-Dickensian
pre-Dorian
pre-Doric
pre-Dravidian
pre-Dravidic
pre-Dutch
pre-Easter
pre-Elizabethan
pre-Empire
pre-English
pre-French
pre-Georgian
pre-German
pre-Germanic
pre-Gothic
pre-Greek
pre-Han
pre-Hebrew
pre-Hellenic
pre-Hieronymian
pre-Hinduized
pre-Hispanic
pre-Homeric
pre-Inca
pre-Incan
pre-Incarial
pre-Indian
pre-Irish
pre-Islam
pre-Islamic
pre-Islamite
pre-Israelite
pre-Israelitish
pre-Jewish
pre-Johannine
pre-Johnsonian
pre-Justinian
pre-Kantian
pre-Koranic
pre-Latin
pre-Laurentian
pre-Linnaean
pre-Linnean
pre-Luciferian
pre-Lutheran
pre-Malay
pre-Malayan
pre-Malaysian
pre-Marxian
pre-Mendelian
pre-Messianic
pre-Methodist
pre-Mohammedian
pre-Mongolian
pre-Mosaic
pre-Moslem
pre-Muslim
pre-Mycenaean
pre-Napoleonic
pre-Newtonian
pre-Noachian
pre-Norman
pre-Norse
pre-Osmanli
pre-Palaeozoic
pre-Paleozoic
pre-Patrician
pre-Pauline
pre-Permian
pre-Persian
pre-Petrine
pre-Pharaonic
pre-Phidian
pre-Polish
pre-Pueblo
pre-Puebloan
pre-Raphael
pre-Raphaelism
pre-Raphaelite
pre-Raphaelitic
pre-Raphaelitish
pre-Raphaelitism
pre-Reconstruction
pre-Reformation
pre-Renaissance
pre-Restoration
pre-Revolution
pre-Roman
pre-Sargonic
pre-Saxon
pre-Semitic
pre-Shakespeare
pre-Shakespearean
pre-Shakespearian
pre-Silurian
pre-Socratic
pre-Solomonic
pre-Solonian
pre-Spanish
pre-Sumerian
pre-Syriac
pre-Syrian
pre-Tertiary
pre-Thanksgiving
pre-Tridentine
pre-Tudor
pre-Victorian
pre-Virgilian
pre-Volstead
pre-adamite
pre-amp
pre-audit
pre-axial
pre-chellean
pre-eminence
pre-eminently
pre-eminence
pre-emotional
pre-emperor
pre-employ
pre-employee
pre-employer
pre-employment
pre-empt
pre-emptible
pre-emption
pre-emption right
pre-emptioner
pre-emptive
pre-emptively
pre-emptor
pre-emptory
pre-enable
pre-enact
pre-enact
pre-enclose
pre-enclosure
pre-encounter
pre-encourage
pre-encouragement
pre-endeavor
pre-endorse
pre-endorsement
pre-endorser
pre-energetic
pre-energy
pre-enforce
pre-enforcement
pre-engage
pre-engagement
pre-engineering
pre-enjoy
pre-enjoyable
pre-enjoyment
pre-enlarge
pre-enlargement
pre-enlighten
pre-enlightener
pre-enlightening
pre-enlightenment
pre-enlist
pre-evaporation
pre-evaporator
pre-evasion
pre-evidence
pre-evident
pre-evidently
pre-evite
pre-evolutional
pre-evolutionary
pre-evolutionist
pre-exact
pre-exaction
pre-examination
pre-examine
pre-examiner
pre-excel
pre-excellence
pre-excellency
pre-excellent
pre-except
pre-exception
pre-exceptional
pre-exceptionally
pre-exchange
pre-excitation
pre-excite
pre-excitement
pre-exclude
pre-exclusion
pre-exclusive
pre-exclusively
pre-excursion
pre-excuse
pre-execute
pre-execution
pre-executor
pre-exempt
pre-exemption
pre-exhaust
pre-exhaustion
pre-exhibit
pre-exhibition
pre-exhibitor
pre-exile
pre-exilian
pre-exilic
pre-exist
pre-existence
pre-existent
pre-existentiary
pre-existentism
pre-expand
pre-expansion
pre-expect
pre-expectant
pre-expectation
pre-expedition
pre-expeditionary
pre-expend
pre-expenditure
pre-expense
pre-experience
pre-experiment
pre-experimental
pre-expiration
pre-explain
pre-explanation
pre-explanatory
pre-explode
pre-explosion
pre-expose
pre-exposition
pre-exposure
pre-expound
pre-expounder
pre-express
pre-expression
pre-expressive
pre-extend
pre-extensive
pre-extensively
pre-extent
pre-extinction
pre-extinguish
pre-extinguishment
pre-extract
pre-extraction
pre-fabulous
pre-free-trade
pre-glacial
pre-ignition
pre-judicial
pre-judiciary
pre-man
pre-operculum
pre-option
pre-orbital
pre-ordain
pre-ordinate
pre-preference
pre-raphael
pre-raphaelite
pre-raphaelitism
pre-shrunk
pre-socratic
pre-sternum
pre-teens
preach to the winds
preacher bird
preaching brother
preaching friar
preaching-house
prealternate molt
prebasic molt
prebendal stall
precedent condition
precession of the equinoxes
precinct captain
precinct house
precinct leader
precious coral
precious heart
precious little
precious metal
precious metals
precious moonstone
precious opal
precious rascal
precious stone
precipitable water
precipitate yourself
precipitation hardening
precision balance
precision barometer
precision block
precision bomber
precision bombing
precision caliper
precision camera
precision casting
precision clock
precision focusing
precision gauge
precision gauge block
precision grinding
precision instrument
precision lathe
precision lens
precision meter
precision punch
precision scale
precision screw
precision tool
precision weight
precision-production control
preclinical medicine
precombustion engine
precordial anxiety
precordial pain
precordial region
predaceous diving beetle
predation pressure
predicate adjective
predicate calculus
predicate nominative
predicate noun
predicate objective
predicated on
predictable error
predictable response
predictable within limits
predisposed to
predominance of Aquarius
pre from the mouth of
preen gland
preen yourself
prefabricated house
prefect apostolic
prefects apostolic
prefecture apostolic
prefectures apostolic
prefer a claim
prefer a petition
prefer charges
prefer to
prefer your own company
preference for the best
preference primary
preference share
preference shares
preference stock
preferential shop
presence chamber
presence of God
presence of mind
presence room
presence-chamber
presenile dementia
present a bold front
present a petition
present a position paper
present a true bill
present arms
present difficulties
present itself
present itself to the mind
present itself to the thoughts
present no difficulties
present participle
present perfect
present tense
present the appearance of
present to
present to the eye
present to the eyes
present to the mind
present value
present your case
present yourself
present yourself to view
present-age
present-day
present-minded
present-time
presentation copy
presentation of the case
presentation time
presentative realism
presenting arms
preservative medium
preserve a balance
preserve a middle course
preserve an even course
preserve from oblivion
preserve your dignity
preserve your honor
preset board
preset control board
preside at the board
preside over
press iron
press money
press notice
press objections
press of business
press of canvas
press of sail
press on
press onward
press operator
press out
press proof
press release
press roll
press section
press stud
press tender
press the attack
press time
press to the bosom
press to the ground
press upon
press your hand
press your suit
press, the
press-agent
press-agentry
press-bed
press-forge
press-gang
press-made
press-mark
press-money
press-noticed
press-point
press-ridden
press-room
press-up
press-warrant
press-work
press-yard
pressed beef
pressed brick
pressed down
pressed for time
pressed glass
pressed hardboard
presser bar
pressure suit
pressure syllable
pressure tank
pressure transducer
pressure transmitter
pressure tube
pressure valve
pressure warrant
pressure welding
pressure wire
pressure-cook
pressure-fixing
pressure-group politics
pressure-reciprocating
pressure-reducing
pressure-regulating
pressure-relief ring
pressure-relieving
pressure-testing
pressure-vacuum valve
pressureless space
pressurized suit
pressyou hard
prest money
prest-money
prestation money
prester john
prestige dialect
presto change
presto chango
prestressed concrete
presume on
presume upon
presumption of fact
presumption of innocence
presumptive evidence
presumptive heir
presumptive right
pretend not to see
pretend to
pretend to be
preter-
preterit-present
preterite-present
preterito-present
preterito-presential
pretium puellae
pretty as a picture
pretty damned quick
pretty good
pretty kettle of fish
pretty lies
pretty much
pretty much the same
pretty near
pretty pass
pretty penny
pretty pickle
pretty piece of business
pretty predicament
pretty up
pretty well
pretty wit
pretty-behaved
pretty-by-night
pretty-face
pretty-faced
pretty-footed
pretty-humored
pretty-looking
pretty-mannered
pretty-pretty
pretty-spoken
pretty-toned
pretty-witted
prevail on
prevail over
prevail upon
prevail with
prevailing belief
prevailing sentiment
prevailing taste
prevailing westerlies
prevailing wind
prevenient grace
preventer backstay
preventer plate
preventer stay
prevention-proof
preventive custody
preventive dentist
preventive dentistry
preventive detention
preventive law
preventive measure
preventive medicine
preventive treatment
preventive war
previous question
previous time
previous to
prey on
prey on the mind
prey to blind fear
prey to malaise
prey upon
pribble-prabble
price ceiling
price control
price controls
price current
price cut
price determination
price discrimination
price fall
price fixing
price freeze
price index
price level
price list
price of money
price out of the market
price range
price reduction
price ring
price support
price supports
price tag
price war
price-cut
price-cutter
price-cutting
price-deciding
price-enhancing
price-fixing
price-lowering
price-raising
price-reducing
price-ruling
price-stabilizing
prices current
prick ear
prick mark
prick post
prick punch
prick shaft
prick shooting
prick song
prick the bubble
prick up
prick up the ears
prick up your ears
prick wheel
prick your balloon
prick-ear
prick-eared
prick-madam
prick-post
prick-seam
prick-song
prick-timber
pricking of conscience
pricking of heart
pricking wheel
pricking-up
prickle cell
prickle grass
prickle-back
prickle-cone pine
pricklely heat
prickly ash
prickly glasswort
prickly grass
prickly heat
prickly lettuce
prickly pear
prickly phlox
prickly poppy
prickly shield fern
prickly thrift
prickly-finned
prickly-fruited
prickly-lobed
prickly-margined
prickly-seeded
prickly-toothed
pride and joy
pride of China
pride of India
pride of bearing
pride of place
pride of the morning
pride yourself
pride-blind
pride-blinded
pride-bloated
pride-fed
pride-inflamed
pride-inspiring
pride-of-India
pride-ridden
pride-sick
pride-swollen
prie-dieu
priest hole
priest vicar
priest-astronomer
priest-baiting
priest-catching
priest-doctor
priest-dynast
priest-educated
priest-guarded
priest-harboring
priest-hating
priest-hermit
priest-hole
priest-king
priest-knight
priest-led
priest-monk
priest-noble
priest-philosopher
priest-poet
priest-prince
priest-prompted
priest-ridden
priest-riddenness
priest-ruler
priest-statesman
priest-surgeon
priest-wrought
prim up
prim-behaving
prim-lipped
prim-looking
prim-mannered
prim-mouthing
prim-notioned
prim-seeming
prima ballerina
prima donna
prima facie
prima facie case
prima facie evidence
prima inter pares
prima materia
prima vista
prima-facie evidence
primal chaos
primal ignorance
primal stupidity
primal therapy
primary accent
primary anemia
primary atypical pneumonia
primary battery
primary burial
primary cell
primary coil
primary color
primary colour
primary contact
primary derivative
primary digestion
primary education
primary election
primary electron
primary evidence
primary form
primary group
primary highway
primary infection
primary intention
primary oocyte
primary optical area
primary phloem
primary pigment
primary processes
primary quality
primary road
primary scholar
primary school
primary schooler
primary sex character
primary sex characteristic
primary spermatocyte
primary stress
prison guard
prison house
prison pallor
prison psychosis
prison term
prison ward
prison-bound
prison-bred
prison-bursting
prison-caused
prison-escaping
prison-free
prison-house
prison-made
prison-making
prison-taught
prisoner of war
prisoner's base
prisoner-of-war camp
prisoner-of-war stockade
prisoners' bars
prisse papyrus
pristine ignorance
prittle-prattle
private aims
private attorney
private aviation
private bill
private branch exchange
private business exchange
private checker
private company
private conference
private desires
private detective
private enterprise
private eye
private first class
private flying
private hospital
private hotel
private income
private information
private instructor
private international law
private investigator
private judgment
private knowledge
private law
private line
private matter
private means
private member
private ownership
private parts
private patient
private pilot
private plane
private practice
private press
private road
private room
private school
private secretary
private sector
private teaching
private treaty
private-duty nurse
private-enterprise
private-enterprise economy
private-line car
privation-proof
privet adelia
privet andromeda
privet hawk
privet honeysuckle
privilege from
privileged communication
privileged question
privy chamber
privy council
privy councilor
privy counsellor
privy parts
privy purse
privy seal
privy to
privy-councilship
prix fixe
prix fixes
prize court
prize crew
prize fight
prize fighter
prize fighting
prize flag
pro-Bessarabian
pro-Biblical
pro-Bohemian
pro-Bolivian
pro-Bolshevik
pro-Bolshevism
pro-Bolshevist
pro-Brazilian
pro-British
pro-Buddhist
pro-Bulgarian
pro-Burman
pro-Cambodia
pro-Cameroun
pro-Canadian
pro-Catholic
pro-Catholicism
pro-Ceylon
pro-Chilean
pro-Chinese
pro-Colombian
pro-Confederate
pro-Congolese
pro-Congressional
pro-Cuban
pro-Cyprus
pro-Czech
pro-Czecho-Slovakian
pro-Danish
pro-Darwin
pro-Darwinian
pro-Darwinism
pro-Denmark
pro-Dominican
pro-East
pro-Eastern
pro-Ecuador
pro-Egyptian
pro-Elizabethan
pro-Emersonian
pro-English
pro-Eskimo
pro-Ethiopian
pro-European
pro-Finnish
pro-Florentine
pro-France
pro-French
pro-Freud
pro-Freudian
pro-Gaelic
pro-Gentile
pro-German
pro-Ghana
pro-Gothic
pro-Grecian
pro-Greek
pro-Guatemalan
pro-Haitian
pro-Hawaiian
pro-Hellenic
pro-Hindu
pro-Hitler
pro-Honduran
pro-Hungarian
pro-Icelandic
pro-Indian
pro-Indonesian
pro-Iranian
pro-Iraq
pro-Iraqi
pro-Irish
pro-Israel
pro-Israeli
pro-Italian
pro-Jacobean
pro-Japanese
pro-Jeffersonian
pro-Jewish
pro-Jordan
pro-Korean
pro-Koweit
pro-Kuwait
pro-Laotian
pro-Latin
pro-Lebanese
pro-Liberian
pro-Lybian
pro-Madagascan
pro-Malayan
pro-Malaysian
pro-Methodist
pro-Mexican
pro-Monaco
pro-Moroccan
pro-Moslem
proactive inhibition
probability curve
probability density function
probability distribution
probability function
probability theory
probable cause
probable error
probate bond
probate court
probate duty
probate judge
probation officer
probatum est
probe scissors
probe-pointed
probirth-control
problem drinker
problem drinking
problem novel
problem play
problems in living
probolon is a probability
proboscis monkey
procaine amide
procaryotic cell
proceed from
proceed out in the open
proceed to
proceed with
proces verbal
proces-verbal
proces-verbaux
process butter
process cheese
process control
process costing
process lag
process loop
process milling
process of time
process photos
process plate
process printer
process printing
process server
process shot
process variable
profanum vulgus
profession of belief
profession of faith
professional athlete
professional consultant
professional education
professional ethics
professional killer
professional mourner
professional musician
professional name
professional politician
professional soldiers
professional standing
professional status
professor emeritus
professor ordinarius
proffer aid
proffer yourself
proficiency badge
proficient in
profile board
profile cutter
profile drag
profile line
profile machine
profile map
profile microscope
profile paper
profile plan
profiling machine
profit and loss
profit and loss account
profit by
profit sharing
profit system
profit taking
profit-and-loss
profit-building
profit-making
profit-producing
profit-seeking
profit-sharing
profit-taking
profit-yielding
profound idiocy
profound knowledge
profound secret
profound sense
profound sleep
profound thought
prognostic chart
program clock
program director
program discriminator
program feed
program music
program of action
program of music
program of operation
program picture
programme music
programmed instruction
programmed learning
programming language
progress chart
progress clerk
progress of time
progressive conservative
progressive jazz
progressive proof
progressive school
progressive sorites
progressive tax
progressive taxation
progressive tense
progressive trials
prohibition-proof
prohibitory injunction
project over
projected window
projectile anchor
projectile lathe
projectile rocket
projecting microscope
projection booth
projection fiber
projection machine
projection print
projection printing
projection room
projection tube
projective geometry
projective property
projective test
projector lamp
projector tube
prolate spheroid
proletarian novel
proliferative arthritis
prolong the agony
prolone knot
prolonged narcosis
promenade concert
promenade deck
promenade tile
promethea moth
prominent belly
promise in marriage
promise of harm
promise-bound
promise-breach
promise-breaking
promise-crammed
promise-fed
promise-fulfilling
promise-keeping
promise-led
promise-making
promise-performing
promised land
promissory note
promoter of the faith
promotional material
prompt dower
prompt note
prompt side
prompt the mind
prompter's box
prone before
prone float
prone pressure method
prone to
prong box
prong budding
prong chuck
prong die
prong hoe
prong key
prong-horned
pronghorn antelope
pronounce judgment
pronounce on
pronounce sentence
prony brake
proof against
proof armor
proof before letter
proof charge
proof coin
proof correction
proof leaf
proof paper
proof plane
proof planer
proof press
proof sheet
proof spirit
proof stress
proof-correct
proof-proof
proof-spirit
prop joint
prop man
prop root
prop up
prop word
prop-wash
propaganda novel
propaganda-proof
propanoic acid
propeller horsepower
propeller plane
propeller post
propeller race
propeller shaft
propeller thrust
propeller torque
propeller wash
propeller-drive gas turbine
propeller-jet engine
propelling charge
propelling nozzle
propelling pencil
propenyl alcohol
propenyl group
propenyl radical
proper adjective
proper claim
proper fraction
proper function
proper motion
proper name
proper noun
proper occasion
proper piloting
proper subalgebra
proper subset
proper task
proper thing
proper time
proper to
proper value
propertied person
property damage insurance
property insurance
property line
property man
property master
property owner
property right
property rights
property roll
property tax
property transfer
property-increment tax
property-owning
prophet flower
prophet of doom
prophet-bard
prophet-flower
prophet-king
prophet-painter
prophet-poet
prophet-preacher
prophet-statesman
prophetic revelation
prophetico-historical
prophylactic psychiatry
prophylactic psychology
propio-
propionic acid
propitiatory gift
propjet engine
proportional band
proportional control
proportional counter
proportional ionization chamber
proportional limit
proportional parts
proportional representation
proportional tax
proportioning lever
proposal bond
propose a question
propose to
proposed explanation
propositional calculus
propositional function
propound a question
proprietary colony
proprietary drug
proprietary hospital
proprietary medicine
proprietary name
proprietary rights
proprio motu
props from under one
props from under you
propter hoc
propulsion charge
propulsive duct
propulsive efficiency
propyl alcohol
propyl aldehyde
propylene glycol
propylphenyl acetate
pros and cons
pros-
proscenium arch
proscenium box
proscenium boxes
proscenium stage
prose fiction
prose poem
prose poet
prose poetry
prose rhythm
prose run mad
prose style
prose writer
prosecute a suit against
prosecute at law
prosecute to a conclusion
prosecuting attorney
prosecution-proof
prosodic form
prosodic pattern
prospect glass
prospective glass
prospective-glass
prosperity-proof
prosperous issue
prostate gland
prostatic fluid
prosthetic dentistry
prosthetic group
prostrate before
prostrate yourself
prostrate yourself before
prot-
prote-
protean actor
protected anchorage
protected cruiser
protection forest
protection racket
protective clothing
protective coloration
protective covering
protective custody
protective deck
protective mimicry
protective slope
protective stock
protective system
protective tariff
protective umbrella
protector paravane
protein crystal
protein deficiency
protein factor
protein fever
protein fibers
protein milk
protein plastic
protein shock
protein therapy
protein-free
proteolytic enzyme
protero-
protest against
protest demonstration
protest flag
protest too much
protested bill
proteus animalcule
prothetic vowel
prothonotary apostolic
prothonotary warbler
proto-
protocol sentence
protocol statement
proton gun
proton number
proton reaction
proton-synchrotron
protoxide of nitrogen
protozoan disease
protracted meeting
protruding belly
proud as Lucifer
proud as a peacock
proud bearing
proud flesh
proud-blind
proud-blooded
proud-crested
proud-exulting
proud-glancing
proud-hearted
proud-looking
proud-minded
proud-mindedness
proud-paced
proud-pillared
proud-prancing
proud-quivered
proud-spirited
proud-stomached
provable fact
provascular tissue
prove false
prove out
prove the contrary
prove to be
prove true
prove up
prove your point
proved fact
proverbial saying
province-chancellor
provide a hedge
provide a rationale
provide against
provide against a rainy day
provide capital for
provide for
provide for a rainy day
provide money for
provide the wherewithal
provide with a roof
provided always
provided for
provided school
provided that
provident care
provident club
provident society
provincial court
provincial legislature
provincial parliament
provincial police
provincial tax
proving ground
proving out
provision account
provision of capital
provision tree
provisional government
provisionally accept
provisionally admit
provolone cheese
provost court
provost guard
provost marshal
provost-marshal
prow on
prowl after
prowl car
proximal convoluted tubule
proximate analysis
proximate cause
proxime accessit
proximity fuse
proximity fuze
proximity meter
proxy marriage
proxy statement
proxy voting
prudent administration
prudent administration
prune purple
prune tree
prunes and prisms
pruning hook
pruning saw
pruning shears
prurient interest
prussian blue
prussic acid
pry around
pry into
pry into the future
pry loose from
pry open
pry out
pry pole
psalm book
psalm singer
psalm tone
psalm tune
psammo-
pseud-
pseudo abolitionist
pseudo abstainer
pseudo academy
pseudo acceptance
pseudo accident
pseudo acid
pseudo acquaintance
pseudo actor
pseudo actress
pseudo aesthete
pseudo aestheticism
pseudo affection
pseudo agent
pseudo alliance
pseudo ally
pseudo alumna
pseudo alumnus
pseudo amateur
pseudo analogy
pseudo ancestor
pseudo angel
pseudo animal
pseudo animalism
pseudo announcement
pseudo apology
pseudo applicant
pseudo application
pseudo appointment
pseudo appreciation
pseudo aristocrat
pseudo arrest
pseudo art
pseudo artist
pseudo asceticism
pseudo assertion
pseudo association
pseudo astonishment
pseudo aunt
pseudo author
pseudo authoress
pseudo authorization
pseudo bacillus
pseudo banker
pseudo bankruptcy
pseudo baptism
pseudo bard
pseudo base
pseudo benefactor
pseudo benefactress
pseudo benevolence
pseudo bible
pseudo biographer
pseudo biography
pseudo biology
pseudo bird
pseudo bishop
pseudo boa
pseudo bookcase
pseudo boy
pseudo bride
pseudo broker
pseudo brokerage
pseudo brother
pseudo cancellation
pseudo candidacy
pseudo candidate
pseudo candor
pseudo captive
pseudo capture
pseudo catholic
pseudo catholicism
pseudo census
pseudo champion
pseudo championship
pseudo charity
pseudo chemist
pseudo chemistry
pseudo citizen
pseudo citizenship
pseudo clergy
pseudo clergyman
pseudo clerk
pseudo client
pseudo club
pseudo college
pseudo competitor
pseudo conclusion
pseudo cone
pseudo confession
pseudo confessional
pseudo confirmation
pseudo conflict
pseudo connection
pseudo consent
pseudo conservator
pseudo conversion
pseudo cook
pseudo cordiality
pseudo corporation
pseudo count
pseudo courtesy
pseudo courtier
pseudo cousin
pseudo creditor
pseudo crisis
pseudo critic
pseudo criticism
pseudo crystal
pseudo cult
pseudo cultivation
pseudo culture
pseudo date
pseudo death
pseudo declaration
pseudo deficit
pseudo delegate
pseudo delegation
pseudo democracy
pseudo deputation
pseudo deputy
pseudo devotee
pseudo devotion
pseudo dike
pseudo diplomacy
pseudo diplomat
pseudo distance
pseudo distribution
pseudo distributor
pseudo divination
pseudo divine
pseudo divinity
pseudo doctor
pseudo donation
pseudo donor
pseudo drama
pseudo dramatist
pseudo duke
pseudo earl
pseudo economics
pseudo economy
pseudo editor
pseudo editorial
pseudo education
pseudo educator
pseudo election
pseudo electorate
pseudo emotion
pseudo endeavor
pseudo enthusiasm
pseudo enthusiast
pseudo episcopacy
pseudo equality
pseudo ethics
pseudo etymologist
pseudo etymology
pseudo evangelist
pseudo example
pseudo exemplar
pseudo experiment
pseudo expert
pseudo exposure
pseudo fabric
pseudo failure
pseudo faith
pseudo fame
pseudo farmer
pseudo farming
pseudo father
pseudo femininity
pseudo liquidation
pseudo literature
pseudo loan
pseudo lord
pseudo mahogany
pseudo marble
pseudo marquis
pseudo marriage
pseudo martyr
pseudo martyrdom
pseudo masculinism
pseudo masculinity
pseudo masterpiece
pseudo medievalism
pseudo meditation
pseudo member
pseudo membership
pseudo memory
pseudo messenger
pseudo militarism
pseudo minister
pseudo ministry
pseudo miracle
pseudo modesty
pseudo monastery
pseudo monk
pseudo moralist
pseudo morality
pseudo myth
pseudo narcotism
pseudo nationalism
pseudo nobility
pseudo noble
pseudo nymph
pseudo occidentalism
pseudo occupation
pseudo official
pseudo officialism
pseudo orientalism
pseudo owner
pseudo pagan
pseudo parallel
pseudo parasite
pseudo parent
pseudo parson
pseudo participation
pseudo partner
pseudo partnership
pseudo pastor
pseudo pastorate
pseudo patriot
pseudo patriotism
pseudo patron
pseudo patronage
pseudo payment
pseudo peasant
pseudo peasantry
pseudo philanthropist
pseudo philanthropy
pseudo philologist
pseudo philology
pseudo philosopher
pseudo philosophy
pseudo physician
pseudo piety
pseudo pigmentation
pseudo poet
pseudo poetess
pseudo poetry
pseudo politician
pseudo politics
pseudo popularity
pseudo possession
pseudo possessor
pseudo poverty
pseudo precedent
pseudo prescription
pseudo presentiment
pseudo priest
pseudo priesthood
pseudo prince
pseudo principality
pseudo profession
pseudo professor
pseudo prohibition
pseudo prohibitionist
pseudo prophecy
pseudo prophet
pseudo prophetess
pseudo prosperity
pseudo psychologist
pseudo psychology
pseudo purity
pseudo ray
pseudo realism
pseudo recognition
pseudo recollection
pseudo reconciliation
pseudo reform
pseudo reformation
pseudo reformatory
pseudo reformer
pseudo registration
pseudo relation
pseudo relationship
pseudo relative
pseudo religion
pseudo republic
pseudo residence
pseudo resident
pseudo resignation
pseudo reversal
pseudo rheumatism
pseudo romanticism
pseudo royal
pseudo royalty
pseudo sacrilege
pseudo saint
pseudo saintliness
pseudo sanctity
pseudo sanctuary
pseudo satire
pseudo satirist
pseudo scholar
pseudo scholarship
pseudo science
pseudo scientist
pseudo sensation
pseudo sense
pseudo sensibility
pseudo servility
pseudo servitor
pseudo servitude
pseudo signature
pseudo siphon
pseudo slavery
pseudo socialism
pseudo socialist
pseudo specialist
pseudo specialty
pseudo specter
pseudo spirit
pseudo spirituality
pseudo statement
pseudo-carp
pseudo-catholic
pseudo-christ
pseudo-code
pseudo-hieroglyphic
pseudo-intransitive
pseudo-ionone
pseudo-isometric
pseudo-occidental
pseudo-orthorhombic
pseudo-osteomalacia
pseudo-papal
pseudo-unisepate
pseudo-urate
pseudo-urea
pseudo-uric
pseudoaortic insufficiency
pseudologia phantastica
pseudometric space
pseudonymous literature
psi particle
psilo-
psych out
psych-
psychasthenic reaction
psyche knot
psyched up
psychedelic drug
psychedelic show
psychiatric evaluation
psychiatric ward
psychic apparatus
psychic bid
psychic blindness
psychic determinism
psychic energizer
psychic energy
psychic epilepsy
psychic income
psychic monism
psychic phenomena
psychic research
psychical phenomena
psychical research
psychically blind
psycho-
psycho-asthenics
psycho-physic
psycho-physical
psycho-therapeutic
psychoactive drug
psychoactive drugs
psychoanalytic method
psychoanalytic theory
psychoanalytic therapy
psychogenic disease
psychological block
psychological complex
psychological conditioning
psychological counseling
psychological defenses
psychological dependence
psychological dictionary
psychological evaluation
psychological fixation
psychological hedonism
psychological logic
psychological medicine
psychological moment
psychological novel
psychological primary
psychological profile
psychological screening
psychological stress
psychological support
psychological surrogate
psychological symbol
psychological test
psychological time
psychological warfare
psychologically addictive
psychology of depths
psychomotor disturbance
psychomotor epilepsy
psychoneurotic disorder
psychopathia martialis
psychopathia sexualis
psychopathic case
psychopathic condition
psychopathic hospital
psychopathic personality
psychopathic ward
psychophysical parallelism
psychosexual disorder
psychosocial medicine
psychosomatic disease
psychosomatic medicine
psychosomatic symptom
psychotic personality
psychro-
psychrometric chart
psyllium seed
pterid-
pterido-
ptero-
pteroic acid
pteroylglutamic acid
pteroylmonoglutamic acid
pterygo-
pterygoid bone
pterygoid process
ptilo-
ptolemaic system
ptomaine poisoning
pub crawler
pub-crawl
pubertal gland
puberty gland
pubic hair
public acclaim
public accountant
public act
public address
public administration
public assistance
public bar
public baths
public belief
public bill
public charge
public company
public consciousness
public convenience
public corporation
public crib
public debt
public defender
public dishonor
public domain
public enemy
public enterprise
public entertainer
public eye
public figure
public gallery
public health
public health doctor
public health medicine
public health nurse
public health physician
public hospital
public house
public image
public international law
public knowledge
public law
public lending right
public librarian
public library
public man
public motive
public notice
public nuisance
public official
public opinion
public orator
public ownership
public park
public policy
public press
public print
public prosecutor
public records
public relations
public relations man
public relations officer
public report
public sale
public school
public servant
public service
public speaker
public speaking
public speech
public spirit
public square
public statute
public telephone
public television
public till
public tit
public tranquillity
public treasury
public trough
public utilities
public utility
public walk
public welfare
public works
public worship
public-address system
public-liability insurance
public-minded
public-mindedness
public-official bond
public-opinion poll
public-school
public-service corporation
public-spirited
public-spiritedly
public-spiritedness
public-utility
public-voiced
publicity agent
publicity law
publicity man
publicity manager
publicity story
publicity-proof
publish a manifesto
publish the banns
publisher's catalog
publisher's list
publishing house
publishing industry
pubo-
puce oxide
puck-carrier
pucker up
pudding bag
pudding boom
pudding club
pudding face
pudding grass
pudding sleeve
pudding spar
pudding stone
pudding time
pudding-faced
pudding-pie
pudding-pipe tree
pudding-shaped
puddle ball
puddle bar
puddle duck
puddle rolls
puddle wall
puddling furnace
pudendal ulcer
puerperal fever
puerperal psychosis
puff adder
puff and blow
puff box
puff like a grampus
puff of air
puff of smoke
puff of wind
puff paste
puff pastry
puff pipe
puff shark
puff sleeve
puff up
puff-adder
puff-ball
puff-bird
puff-fish
puff-leg
puff-paste
puff-puff
puffed rice
puffed up
puffed wheat
puffer pipe
puffing up
pug dog
pug head
pug knife
pug mill
pug moth
pug nose
pug piling
pug-faced
pug-nosed
pug-pile
puisne judge
puisne justice
puke-stocking
pukka sahib
puling infant
pull a blooper
pull a bluff
pull a boner
pull a boo-boo
pull a face
pull a fast one
pull a fast one on
pull a gun on
pull a lone oar
pull a long face
pull a proof
pull about
pull about your ears
pull an oar
pull apart
pull around
pull at the heartstrings
pull at the leash
pull away
pull back
pull box
pull broach
pull by the sleeve
pull clear
pull date
pull different ways
pull down
pull fo
pull for
pull in
pull in pieces
pull in your horns
pull lamp holder
pull off
pull on
pull out
pull out all the stops
pull out of it
pull over
pull pin
pull punches
pull rank
pull ropes
pull round
pull station
pull strap
pull strings
pull switch
pull the forelock
pull the strings
pull the wires
pull the wool over your eyes
pull through
pull to pieces
pull together
pull towards
pull up
pull up by the roots
pull up short
pull up stakes
pull wires
pull you up short
pull your leg
pull your own weight
pull your rank
pull your teeth
pull your weight
pull your wits together
pull yourself together
pull- 
pull-back
pull-down
pull-drive
pull-in
pull-in torque
pull-off
pull-on
pull-on sweater
pull-out
pull-out torque
pull-over
pull-through
pull-through torque
pull-up
pull-up chair
pullboat logging
puller-in
puller-out
pullet disease
pulley block
pulley chain
pulley frame
pulley lathe
pulse deficit
pulse family
pulse generator
pulse glass
pulse height analyser
pulse ionization chamber
pulse jet
pulse jet helicopter
pulse modulation
pulse pressure
pulse radar
pulse rate
pulse transformer
pulse wave
pulse-jet
pulse-jet engine
pulse-jet propulsion
pulse-modulated radar
pulse-time modulation
pulsejet engine
pulsion diverticulum
pulsus alternans
pulvering day
pulverizer harrow
pumice soap
pumice stone
pumice-stone
pump bilge
pump bob
pump box
pump brake
pump cylinder
pump doctor
pump drill
pump for information
pump full of lead
pump gun
pump handle
pump house
pump out
pump priming
pump rod
pump room
pump sole
pump spear
pump staff
pump up
pump well
pump-action
pump-back method
pump-handle
pump-handler
pump-priming
pump-room
pump-well
pumping engine
pumping plan
pumping-back method
pumpkin ash
pumpkin head
pumpkin pine
pumpkin seed
pumpkin tree
pumpkin-colored
pumpkin-headed
pumpkin-seed
pumpkin-seed oil
puna grass
punch barrel
punch bowl
punch card
punch cards
punch cattle
punch cutter
punch full of holes
punch holder
punch house
punch in
punch ladle
punch lifter
punch line
punch mark
punch mat
punch out
punch pliers
punch press
punch spoon
punch the clock
punch-and-judy show
punch-ball
punch-bowl
punch-card data
punch-drunk
punch-hole
punch-marked
punch-up
puppy drum
puppy fat
puppy love
puppy-dog
pur sang
pur-
purchase book
purchase journal
purchase ledger
purchase money
purchase money bond
purchase record
purchase shears
purchase tax
purchase-money
purchasing agent
purchasing power
purchasing public
pure and simple
pure chemistry
pure color
pure culture
pure cussedness
pure democracy
pure form
pure imaginary
pure imaginary number
pure in heart
pure line
pure mathematics
pure mechanics
pure science
pure white
pure-blooded
pure-bosomed
pure-dye
pure-eyed
pure-food law
pure-heartedness
pure-minded
purebred horse
pureness of heart
purgatory hammer
purge away
purge yourself
purging nut
purification flower
purified cotton
purine base
purity rubric
purl stitch
purlieu-man
purlin plate
puro-
purple and fine linen
purple beard grass
purple bent
purple boneset
purple cestrum
purple chokeberry
purple color
purple daisy
purple finch
purple fish
purple fishery
purple foxglove
purple gallinule
purple heart
purple heron
purple lake
purple loosestrife
purple martin
purple medic
purple melick grass
purple mombin
purple mullein
purple oat
purple of Cassius
purple pall
purple passage
purple passages
purple patch
purple patches
purple rock cress
purple sage
purple sandpiper
purple shore crab
purple trillium
purple willow herb
purple wood grass
purple wood sorrel
purple wreath
purple-awned
purple-awned oat grass
purple-backed
purple-beaming
purse crab
purse cutter
purse cutting
purse isinglass
purse line
purse maker
purse net
purse pride
purse race
purse ring
purse rope
purse seine
purse seiner
purse silk
purse snatcher
purse snatching
purse spider
purse string
purse strings
purse weight
purse-bearer
purse-eyed
purse-lined
purse-lipped
purse-mad
purse-pinched
purse-pride
purse-proud
purse-shaped
purse-snatching
purse-string
purse-string suture
purse-swollen
purslane speedwell
purslane tree
pursuant to
pursue a policy of
pursue a strategy
pursue an inquiry
pursue the arts of peace
pursue your education
pursuit airplane
pursuit pendulum
pursuit plane
pursuit squadron
pus basin
pus cell
pus pan
push about
push along
push around
push aside
push back
push bicycle
push bolt
push broach
push broom
push button
push car
push cycle
push down
push drill
push fit
push forward
push from your thoughts
push hoe
push in
push moraine
push off
push on
push onward
push out
push out of place
push shot
push the panic button
push the pen
push the pencil
push through
push to one side
push to the wall
push up daisies
push upon
push your luck
push your way
push-
push-bike
push-button
push-button control
push-button plant
push-button telephone
push-button warfare
push-down
push-off
push-out chuck
push-pin
push-pull
push-pull microphone
push-start
push-up
pusher airplane
pusher grade
pusher plane
pusher propeller
pushing down
pushing under
pushing up daisies
puss clover
puss in the corner
puss moth
puss-cat
puss-moth
pussle-gutted
pussy clover
pussy wants a corner
pussy willow
pussy's toe
pussy's toes
pussy-foot
pustula maligna
put a bold face on
put a bold face upon
put a bridle on your tongue
put a bug in your ear
put a construction on
put a crimp in
put a curse on
put a duty on
put a false appearance upon
put a false construction on
put a false construction upon
put a figure on
put a flea in your ear
put a gloss upon
put a good face upon
put a half nelson on
put a hex on
put a juju on
put a mark on
put a penalty on
put a period to
put a question to
put a spoke in your wheel
put a spoke in your wheels
put a stop to
put a tuck in your tail
put about
put across
put all your eggs in one basket
put all your strength into
put an embargo on
put an end to
put an end to yourself
put and call
put apart
put aside
put asunder
put at a disadvantage
put at ease
put at your disposal
put away
put away for
put away thought
put back
put beef into it
put before
put behind one
put between
put beyond the pale
put by
put down
put down to
put faith in
put for
put forth
put forth buds
put forth leaves
put forth your strength
put forward
put heads together
put hep
put hip
put in
put in a call
put in a false light
put in a good word for
put in a hole
put in a new light
put in a nutshell
put in a spot
put in a trance
put in a word
put in a word for
put in an appearance
put in an order
put in an order for
put in black and white
put in bodily fear
put in commission
put in condition
put in danger
put in fear
put in for
put in force
put in good humor
put in hock
put in irons
put in jeopardy
put in mind
put in mothballs
put in motion
put in operation
put in opposition
put in order
put in pawn
put in phase
put in place
put in plain English
put in plain words
put in practice
put in proper fore-and-aft trim
put in remembrance
put in repair
put in requisition
put in shape
put in suit
put in the bag
put in the foreground
put in the minutes
put in the place of
put in the right
put in time
put in trim
put in tune
put in words
put in words of one syllable
put in working order
put in writing
put in your bad books
put in your black books
put in your head
put in your oar
put in your two cents
put in your two cents worth
put into
put into a flutter
put into a gas
put into effect
put into execution
put into port
put into practice
put into requisition
put into shape
put into the hands of
put into the picture
put into your head
put it
put it all behind one
put it all behind you
put it away
put it in few words
put it out of your thoughts
put it to
put it up to
put life into
put money in
put new life into
put next to
put obeah on
put off
put off mortality
put off the track
put on
put on a bold face
put on a burst of speed
put on a business basis
put on a business footing
put on a drive for
put on a false front
put on a false scent
put on a front
put on a harbor furl
put on a high
put on a pedestal
put on a show
put on airs
put on an act
put on an allowance
put on an even keel
put on weight
put on your considering cap
put on your feet
put on your guard
put on your thinking cap
put one on
put one on guard
put one's heart in one's mouth
put option
put out
put out a feeler
put out at interest
put out bag and baggage
put out buds
put out leaves
put out of action
put out of breath
put out of business
put out of commission
put out of countenance
put out of court
put out of existence
put out of face
put out of gear
put out of joint
put out of mind
put out of order
put out of place
put out of reach
put out of sight
put out of the way
put out of your head
put out of your mind
put out of your misery
put out of your thoughts
put out the welcome mat
put out to grass
put out to pasture
put out to sea
put over
put over against
put paid to
put pep into it
put pressure on
put price
put queries
put right
put six feet under
put somebody in his or her place
put someone on
put something across
put something aside
put something in the pot
put something over
put stock in
put straight
put teeth in
put the bee on
put the best color on
put the best face upon
put the bite on
put the blame on
put the cart before the horse
put the damper on
put the evil eye on
put the fear of God into
put the finger on
put the finisher on
put the finishing strokes on
put the finishing touches on
put the helm hard over
put the helm to leeward
put the helm up
put the jinx on
put the kibosh on
put the lid on
put the lid on it
put the pressure on
put the right foot forward
put the rudder amidships
put the rudder hard left
put the rudder hard over
put the rudder hard right
put the screw on
put the screw to
put the screws on
put the screws to
put the settler on
put the shot
put the skids to
put the skids under
put the touch on
put the worst face upon
put through
put through a deal
put through channels
put through the grind
put through the mill
put through the third degree
put to
put to advantage
put to bed
put to choice
put to death
put to flight
put to inconvenience
put to it
put to music
put to one side
put to press
put to rights
put to rout
put to school
put to sea
put to shame
put to silence
put to sleep
put to the blush
put to the proof
put to the question
put to the rack
put to the sword
put to the test
put to torture
put to trial
put to trouble
put to use
put to vote
put to your last shifts
put to your oath
put to your shifts
put to your wit's end
put together
put trust in
put two and two together
put under
put under a spell
put under an injunction
put under an interdict
put under an interdiction
put under an obligation
put under arrest
put under lock and key
put under oath
put under restraint
put under surveillance
put under the ban
put under the yoke
put up
put up a bluff
put up a bold front
put up a false front
put up a fight
put up a front
put up a howl
put up a job
put up a squawk
put up a struggle
put up an argument
put up as collateral
put up at
put up for auction
put up for sale
put up no barriers
put up the money
put up the shutters
put up the spout
put up to
put up with
put up with it
put up your hair
put upon
put upon oath
put upon record
put upon your mettle
put violently
put way upon
put with
put words in your mouth
put you in mind of
put you in the picture
put you in your place
put you on cloud nine
put you on top of the world
put you out
put you out of your misery
put you through your paces
put your Irish up
put your John Hancock on
put your arms around
put your back into
put your back into it
put your back to
put your back to the wall
put your back up
put your best foot forward
put your bristles up
put your cards on the table
put your cross on
put your dander up
put your eyes out
put your finger on
put your foot down
put your foot down on
put your foot in it
put your foot in your mouth
put your fur up
put your good name in jeopardy
put your hair up
put your hand to
put your hand to the plow
put your hands in your pockets
put your hands on
put your head in a lion's mouth
put your heart into
put your life on the line
put your mark on
put your mind at rest on
put your mind to
put your money on the line
put your monkey up
put your nose out of joint
put your pride in your pocket
put your shoulder to the wheel
put your teeth on edge
put your trust in
put your trust in God
put your two cents in
put your veto upon
put your weight in the scale
put your whole soul in
put yourself between disputants
put yourself down
put yourself down for
put yourself forward
put yourself in a spot
put yourself in another's shoes
put yourself in the hands of
put yourself out
put yourself out of court
put yourself out of the way
put yourself outside of
put yourself upon the
put zip into it
put-and-take
put-down
put-off
put-on
put-out
put-put
put-putter
put-up
put-up job
put-up market
put-upon
putative marriage
putrid matter
put-put
putter-forth
putter-in
putter-off
putter-on
putter-out
putter-through
putter-up
putting away
putting cleek
putting down
putting green
putting in
putting in order
putting on
putting on airs
putting out
putting out the eyes
putting stone
putting the best color on
putting together
putting two and two together
putting yourself between
putting-off
putting-stone
putty coat
putty eye
putty gloss
putty in your hands
putty knife
putty powder
putty-colored
putty-faced
putty-jointed
putty-looking
putty-powdered
putty-stopped
puzzle box
puzzle canon
puzzle lock
puzzle out
puzzle over
puzzle-brain
puzzle-cap
puzzle-headed
puzzle-monkey
puzzle-wit
puzzling problem
py-
pycno-
pye-dog
pygmy glider
pygmy weasel
pygmy-minded
pygo-
pyloro-
pyo-
pyogenic infection
pyorrhea alveolaris
pyorrhoea alveolaris
pyr-
pyramid flower
pyramid plant
pyramid selling
pyramid shell
pyramid-shaped
pyramidal number
pyramidal peak
pyramidal roof
pyramidal tent
pyrethrin I
pyrethrin II
pyrethrum yellow
pyreto-
pyrimidine base
pyrite type
pyrite yellow
pyrito-
pyritohedral group
pyro-
pyro-acid
pyrogallic acid
pyrogallol monoacetate
pyroligneous acid
pyroligneous alcohol
pyroligneous spirit
pyrometer cone
pyrometric bead
pyrometric cone
pyromucic aldehyde
pyrophosphoric acid
pyroracemic acid
pyrosulfuric acid
pyrosulphuric acid
pyrotechnic sponge
pyroxene group
pyroxylin plastic
pyrrhic victory
pyrol red
pyruvic acid
pyruvic acid
pyruvic aldehyde
pyx chest
pyx cloth
pyx veil
pyx-jury
q fever
q v
q-boat
qua-bird
quack doctor
quack grass
quack remedy
quack-quack
quad crown
quad demy
quad large
quad line
quad royal
quad small
quadrant compass
quadrant electrometer
quadrant plate
quadraphonic sound system
quadrate cross
quadratic equation
quadratic form
quadratic formula
quadratic residue
quadrato-
quadrature component
quadrature of the circle
quadrennial circus
quadri-
quadrilateral spinnaker
quadrille ruling
quadrumen merum
quadru-
quadruple counterpoint
quadruple fugue
quadruple time
quadruple-expansion
quadruplex telegraphy
quaff the bitter cup
quai d' orsay
quail brush
quail call
quail dove
quail hawk
quail pipe
quail snipe
quail-brush
quaint-costumed
quaint-eyed
quaint-felt
quaint-looking
quaint-notioned
quaint-shaped
quaint-spoken
quaint-stomached
quaint-witty
quaint-worded
quake grass
quake in your boots
quake in your shoes
quake like an aspen leaf
quake ooze
quaker gun
quaker meeting
quaker moth
quaker-colored
quaker-ladies
quaking aspen
quarter-pierced
quarter-pint
quarter-pound
quarter-right
quarter-run
quarter-second
quarter-sessions
quarter-sheet
quarter-size
quarter-turn stair
quarter-vine
quarter-wave
quarter-witted
quarter-yard
quarter-year
quarter-yearly
quarterback sneak
quarterly meeting
quarterly payments
quartermaster corps
quartermaster sergeant
quartern loaf
quartet table
quarto-centenary
quartz battery
quartz crystal
quartz flint
quartz glass
quartz lamp
quartz mill
quartz mining
quartz plate
quartz porphyry
quartz rock
quartz sand
quartz schist
quartz vein
quartz wedge
quartz-basalt
quartz-crystal clock
quartz-diorite
quartz-free
quartz-iodine lamp
quartz-light therapy
quartz-monzonite
quartz-syenite
quash the charge
quash the indictment
quashing of the charge
quashing of the indictment
quasi accident
quasi acquaintance
quasi actor
quasi adjective
quasi adjustment
quasi admiration
quasi adoption
quasi advantage
quasi adverb
quasi advice
quasi advocate
quasi affection
quasi agreement
quasi alarm
quasi alliance
quasi alumnus
quasi amateur
quasi amendment
quasi amusement
quasi angel
quasi animal
quasi answer
quasi apology
quasi appeal
quasi application
quasi appointment
quasi appreciation
quasi approval
quasi architect
quasi argument
quasi aristocracy
quasi aristocrat
quasi army
quasi arrangement
quasi art
quasi artist
quasi aspiration
quasi asset
quasi assignment
quasi assistance
quasi assurance
quasi asylum
quasi athlete
quasi attachment
quasi attack
quasi attainment
quasi attempt
quasi attendant
quasi attention
quasi attorney
quasi auditor
quasi author
quasi authority
quasi baby
quasi ballot
quasi bank
quasi banker
quasi bankruptcy
quasi banquet
quasi baptism
quasi bargain
quasi basis
quasi battle
quasi beginner
quasi belief
quasi beneficiary
quasi benevolence
quasi biography
quasi bird
quasi blessing
quasi blockade
quasi blunder
quasi body
quasi broker
quasi brother
quasi calamity
quasi caller
quasi cancellation
quasi candidate
quasi candor
quasi captain
quasi cause
quasi celebration
quasi certificate
quasi champion
quasi charity
quasi cheer
quasi chemistry
quasi circulation
quasi citizen
quasi civilization
quasi clairvoyance
quasi client
quasi climax
quasi club
quasi co-operation
quasi collapse
quasi collateral
quasi collection
quasi collector
quasi college
quasi colloquial
quasi combat
quasi comedy
quasi comfort
quasi command
quasi compact
quasi competition
quasi competitor
quasi compliance
quasi compliment
quasi comprehension
quasi compromise
quasi concern
quasi concession
quasi conclusion
quasi conference
quasi confession
quasi confinement
quasi confirmation
quasi conflict
quasi conformance
quasi congratulation
quasi congress
quasi conjunction
quasi connection
quasi conquest
quasi conscience
quasi consent
quasi consequence
quasi consideration
quasi consignment
quasi consolation
quasi consolidation
quasi constitution
quasi construction
quasi consulations
quasi consumption
quasi contempt
quasi contest
quasi continent
quasi continuation
quasi contract
quasi contrast
quasi contribution
quasi control
quasi convenience
quasi convention
quasi conversation
quasi conveyance
quasi conviction
quasi cook
quasi copula
quasi corporateness
quasi corporation
quasi correction
quasi council
quasi coupon
quasi court
quasi courtesy
quasi cousin
quasi craft
quasi creation
quasi credit
quasi creditor
quasi crime
quasi crisis
quasi criticism
quasi cultivation
quasi culture
quasi currency
quasi customer
quasi damage
quasi debt
quasi decision
quasi declaration
quasi decoration
quasi dedication
quasi default
quasi defeat
quasi defiance
quasi deficit
quasi definition
quasi dejection
quasi delegate
quasi delict
quasi demand
quasi democrat
quasi deposit
quasi depreciation
quasi estimation
quasi evidence
quasi exchange
quasi exclusion
quasi excuse
quasi executive
quasi exertion
quasi exile
quasi expectation
quasi expenditure
quasi expense
quasi experience
quasi expert
quasi explanation
quasi export
quasi exposure
quasi expression
quasi fact
quasi factor
quasi factory
quasi faculty
quasi failure
quasi faith
quasi farewell
quasi farmer
quasi fascination
quasi favor
quasi fee
quasi fiction
quasi flight
quasi force
quasi friend
quasi fulfillment
quasi gem
quasi genius
quasi gentleman
quasi gift
quasi glory
quasi graduate
quasi grief
quasi growth
quasi guarantee
quasi guest
quasi guilt
quasi handicap
quasi hardship
quasi harm
quasi health
quasi heir
quasi help
quasi hero
quasi hesitation
quasi historian
quasi history
quasi holiday
quasi honor
quasi horror
quasi identification
quasi ignorance
quasi illness
quasi import
quasi improvement
quasi incentive
quasi inclination
quasi increase
quasi indifference
quasi inducement
quasi indulgence
quasi inference
quasi information
quasi inheritance
quasi initiation
quasi injury
quasi injustice
quasi innocence
quasi inquiry
quasi insight
quasi inspection
quasi inspiration
quasi installation
quasi institution
quasi instruction
quasi insult
quasi integrity
quasi intention
quasi interest
quasi interference
quasi interview
quasi introduction
quasi invasion
quasi investigation
quasi invitation
quasi invoice
quasi judge
quasi judgment
quasi justice
quasi settlement
quasi severalty
quasi shortage
quasi signature
quasi sincerity
quasi skill
quasi slander
quasi socialist
quasi soldier
quasi solution
quasi sonnet
quasi sovereign
quasi space
quasi specialist
quasi sphere
quasi spirit
quasi sport
quasi standard
quasi starvation
quasi statesman
quasi strike
quasi student
quasi subject
quasi submission
quasi success
quasi suggestion
quasi supervision
quasi support
quasi suppression
quasi sympathy
quasi system
quasi teacher
quasi temperance
quasi testimony
quasi thanks
quasi threat
quasi toleration
quasi tradition
quasi tragedy
quasi translation
quasi trial
quasi triumph
quasi trustee
quasi truth
quasi tyranny
quasi union
quasi unity
quasi university
quasi usufruct
quasi utility
quasi vacation
quasi valuation
quasi value
quasi verdict
quasi victim
quasi victory
quasi vigilance
quasi violation
quasi violence
quasi virtue
quasi vocation
quasi volunteer
quasi wager
quasi war
quasi warrant
quasi weakling
quasi wealth
quasi whisper
quasi wisdom
quasi witness
quasi wonder
quasi worship
quasi zeal
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quasi-American
quasi-Americanized
quasi-English
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quasi-German
quasi-Grecian
quasi-Greek
quasi-Jacobean
quasi-Japanese
quasi-Latin
quasi-Spanish
quasi-absolute
quasi-absolutely
quasi-academic
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quasi-admired
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quasi-amiably
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quasi-appropriately
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quasi-artistically
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quasi-asleep
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quasi-athletically
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quasi-audibly
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quasi-authentically
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quasi-automatically
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quasi-awfully
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quasi-benevolently
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quasi-biographically
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quasi-brilliantly
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quasi-brotherly
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quasi-calmly
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quasi-candidly
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quasi-capably
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quasi-carefully
quasi-characteristic
quasi-characteristically
quasi-charitable
quasi-charitably
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quasi-cheerfully
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quasi-civilly
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quasi-conservatively
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quasi-consistently
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quasi-constitutionally
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quasi-criminally
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quasi-cynically
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quasi-definitely
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quasi-demandingly
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quasi-despondently
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quasi-eligibly
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quasi-emotionally
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quasi-endlessly
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quasi-energetically
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quasi-engagingly
quasi-entertaining
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quasi-enthusiastically
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quasi-enviously
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quasi-episcopally
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quasi-equitably
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quasi-erotically
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quasi-essentially
quasi-established
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quasi-eternally
quasi-ethical
quasi-everlasting
quasi-everlastingly
quasi-evil
quasi-evilly
quasi-exact
quasi-exactly
quasi-exceptional
quasi-exceptionally
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quasi-excessively
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quasi-expectantly
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quasi-experimentally
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quasi-externally
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quasi-extraterritorial
quasi-extraterritorially
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quasi-fairly
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quasi-faithfully
quasi-false
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quasi-familiarly
quasi-famous
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quasi-fascinatingly
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quasi-fashionably
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quasi-fatalistically
quasi-fatally
quasi-favorable
quasi-favorably
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quasi-favourably
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quasi-feudally
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quasi-fictitiously
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quasi-fireproof
quasi-fiscal
quasi-fiscally
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quasi-foolishly
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quasi-forgetfully
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quasi-formidably
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quasi-fortunately
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quasi-fraternal
quasi-fraternally
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quasi-fully
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quasi-gallantly
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quasi-generously
quasi-genteel
quasi-genteelly
quasi-gentlemanly
quasi-genuinely
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quasi-graciously
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quasi-harmful
quasi-harmfully
quasi-healthful
quasi-healthfully
quasi-heartily
quasi-hearty
quasi-helpful
quasi-helpfully
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quasi-humorously
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quasi-idealistic
quasi-idealistically
quasi-ideally
quasi-identical
quasi-identically
quasi-ignorant
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quasi-inevitably
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quasi-influentially
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quasi-initiated
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quasi-innumerably
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quasi-insistently
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quasi-intellectually
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quasi-intelligently
quasi-intended
quasi-interested
quasi-interestedly
quasi-internal
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quasi-internally
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quasi-internationalistic
quasi-internationally
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quasi-intolerably
quasi-intolerant
quasi-intolerantly
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quasi-invisibly
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quasi-jocundly
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quasi-kindly
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quasi-laboriously
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quasi-marble
quasi-material
quasi-materially
quasi-maternal
quasi-maternally
quasi-mechanical
quasi-mechanically
quasi-medical
quasi-medically
quasi-medicinal
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quasi-miserably
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quasi-productively
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quasi-rebelliously
quasi-recent
quasi-recently
quasi-recognized
quasi-reconciled
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quasi-reformed
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quasi-regulated
quasi-rejected
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quasi-remarkably
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quasi-repaired
quasi-replaced
quasi-reported
quasi-represented
quasi-republican
quasi-required
quasi-rescued
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quasi-retired
quasi-revolutionized
quasi-rewarding
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quasi-righteously
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quasi-romantically
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quasi-royally
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quasi-rurally
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quasi-sagacious
quasi-sagaciously
quasi-saintly
quasi-sanctioned
quasi-sanguine
quasi-sanguinely
quasi-sarcastic
quasi-sarcastically
quasi-satirical
quasi-satirically
quasi-satisfied
quasi-savage
quasi-savagely
quasi-scholarly
quasi-scholastic
quasi-scholastically
quasi-scientific
quasi-scientifically
quasi-secret
quasi-secrective
quasi-secrectively
quasi-secretly
quasi-secure
quasi-securely
quasi-sentimental
quasi-sentimentally
quasi-serious
quasi-seriously
quasi-settled
quasi-similar
quasi-similarly
quasi-sincere
quasi-sincerely
quasi-singleness
quasi-singly
quasi-skillful
quasi-skillfully
quasi-slanderous
quasi-slanderously
quasi-sober
quasi-soberly
quasi-socialistic
quasi-socialistically
quasi-sovereign
quasi-spatial
quasi-spatially
quasi-spherical
quasi-spherically
quasi-spirited
quasi-spiritedly
quasi-spiritual
quasi-spiritually
quasi-standardized
quasi-stationary
quasi-stellar object
quasi-stellar radio source
quasi-strenuous
quasi-strenuously
quasi-studious
quasi-studiously
quasi-stylish
quasi-stylishly
quasi-subjective
quasi-subjectively
quasi-submissive
quasi-submissively
quasi-successful
quasi-successfully
quasi-sufficient
quasi-sufficiently
quasi-superficial
quasi-superficially
quasi-superior
quasi-supervised
quasi-supported
quasi-suppressed
quasi-sympathetic
quasi-sympathetically
quasi-systematic
quasi-systematically
quasi-systematized
quasi-tangent
quasi-tangible
quasi-tangibly
quasi-technical
quasi-technically
quasi-temporal
quasi-temporally
quasi-territorial
quasi-territorially
quasi-testamentary
quasi-theatrical
quasi-theatrically
quasi-thorough
quasi-thoroughly
quasi-tolerant
quasi-tolerantly
quasi-total
quasi-totally
quasi-traditional
quasi-traditionally
quasi-tragic
quasi-tragically
quasi-tribal
quasi-tribally
quasi-truthful
quasi-truthfully
quasi-typical
quasi-typically
quasi-tyrannical
quasi-tyrannically
quasi-ultimate
quasi-unanimous
quasi-unanimously
quasi-unconscious
quasi-unconsciously
quasi-unified
quasi-universal
quasi-universally
quasi-uplift
quasi-utilized
quasi-valid
quasi-validly
quasi-valued
quasi-venerable
quasi-venerably
quasi-victorious
quasi-victoriously
quasi-violated
quasi-violent
quasi-violently
quasi-virtuous
quasi-virtuously
quasi-vital
quasi-vitally
quasi-vocational
quasi-vocationally
quasi-warfare
quasi-warranted
quasi-wealthy
quasi-whispered
quasi-wicked
quasi-wickedly
quasi-willing
quasi-willingly
quasi-wrong
quasi-young
quasi-zealous
quasi-zealously
quater-centenary
quaternary ammonium compound
quaternary ammonium salt
queen's counsel
queen's evidence
queen's highway
queen's scout
queen's shilling
queen's ware
queen's wreath
queen-mother
queen-of-the-meadow
queen-of-the-prairie
queen-post
queen-post truss
queen-size bed
queens-ware
queer cuffin
queer duck
queer fish
queer in the head
queer potato
queer specimen
queer street
queer the works
queer-bashing
queer-eyed
queer-faced
queer-headed
queer-legged
queer-looking
queer-made
queer-notioned
queer-shaped
queer-spirited
queer-tempered
queerqueer cuffin
queez-madam
quelque chose
quench hook
quenching bath
quenouille training
quercitron lake
quercitron oak
querulous person
query mark
quest after
question at issue
question before the house
question in your mind
question mark
question master
question of fact
question of law
question stop
question time
question-and-answer session
question-begging
question-mark
quetzal bird
queue up
queuing theory
qui s'excuse s'accuse
qui tam
qui transtulit sustinet
qui vive
qui-hi
qui-hy
quia-quia
quick as a wink
quick as lightning
quick as thought
quick assets
quick bread
quick ear
quick exit
quick fire
quick freezing
quick grass
quick hunch
quick inspection
quick kick
quick look
quick march
quick on the draw
quick on the trigger
quick on the uptake
quick one
quick parts
quick pull
quick sight
quick sighted
quick step
quick stick
quick temper
quick thinking
quick time
quick to take offense
quick trick
quick water
quick wit
quick-acting
quick-break switch
quick-burning
quick-change
quick-change artist
quick-coming
quick-compounded
quick-conceiving
quick-decaying
quick-designing
quick-devouring
quick-drawn
quick-eared
quick-fading
quick-falling
quick-fire
quick-firer
quick-firing
quick-flowing
quick-freeze
quick-freezer
quick-freezing
quick-froze
quick-frozen
quick-glancing
quick-gone
quick-growing
quick-guiding
quick-gushing
quick-handed
quick-laboring
quick-lunch
quick-lunch counter
quick-minded
quick-moving
quick-nosed
quick-paced
quick-piercing
quick-questioning
quick-raised
quick-returning
quick-rolling
quick-running
quick-saver
quick-scented
quick-scenting
quick-selling  
quick-setting  
quick-shifting  
quick-shutting  
quick-sighted  
quick-sightedness  
quick-speaking  
quick-spirited  
quick-spouting  
quick-stepping  
quick-talking  
quick-tempered  
quick-thinking  
quick-thoughted  
quick-thriving  
quick-voiced  
quick-winged  
quick-witted  
quick-wittedly  
quick-wittedness  
quick-wrought  
quicken tree  
quicken your pace  
quickening grass  
quickie strike  
quickness to take offense  
quicks set hedge  
quicksilver weed  
quicksstep march  
quicumque vult  
quid pro quo  
quid pro quos  
quids pro quo  
quiet as a mouse  
quieten as a street at night  
quieten day  
quieten death  
quieten down  
quieten ecstasy  
quieten end  
quieten good manners  
quieten hour  
quieten life  
quieten mind  
quieten please  
quieten pleasure  
quieten spell  
quieten taste
quiet-colored
quiet-dispositioned
quiet-eyed
quiet-going
quiet-living
quiet-looking
quiet-mannered
quiet-minded
quiet-moving
quiet-patterned
quiet-seeming
quiet-spoken
quiet-tempered
quietistic painting
quill bark
quill bit
quill drive
quill driver
quill driving
quill fern
quill fly
quill gear
quill nib
quill pen
quill pig
quill worts
quill-less
quill-like
quill-tailed
quillai bark
quillback carpsucker
quilting bee
quilting cotton
quin-
quince curculio
quince wine
quince yellow
quince-seed gum
quince-seed mucilage
quinhydrone electrode
quinic acid
quine bush
quine cherry
quine flower
quine herb
quine plant
quine tree
quine water
quinnat salmon
quinoline dye
quinoline yellow
quinone diazide
quinone diamine
quinone oxime
quinova bitter
quinque-
quince-angle
quinque-angled
quinque-angular
quinque-annulate
quinque-articulate
quimsy woodruff
quint major
quint minor
quint-
quinti-
quintuple counterpoint
quintuple point
quintuple time
quintuple-nerved
quintuple-ribbed
quip at
quips and cranks
quirk bead
quirk molding
quit cold
quit of
quit the field
quit this world
quit yourself
quit-rent
quitch grass
quitclaim deed
quite a
quite a few
quite a little
quite a thing
quite another thing
quite rather
quite so
quite some
quite the contrary
quite the lady
quitter bone
quiver along the spine
quiver leg
quiver like a rabbit
quiver of terror
quiver tree
quixotic ideal
quiz kid
quiz show
quizzing glass
quizzing-glass
quo warranto
quoad hoc
quobosque-weed
quod erat demonstrandum
quod erat faciendum
quod vide
quoddy boat
quoin post
quota immigrant
quota system
quotation board
quotation book
quotation mark
quotation marks
quotation noun
quote a price
quote chapter and verse
quote mark
quote out of context
quote yourself
quoted price
quotient group
quotient ring
quotient space
quotient verdict
r color
r-RNA
r-colour
r-less
rKET
rabbet draft
rabbet joint
rabbet plane
rabbet plank
rabbet-shaped
rabinic hebrew
rabbit bandicoot
rabbit berry
rabbit breeder
rabbit brush
rabbit cat
rabbit ears
rabbit fev
rabbit fever
rabbit fish
rabbit flower
rabbit foot
rabbit louse
rabbit moth
rabbit punch
rabbit squirrel
rabbit stick
rabbit tick
rabbit tobacco
rabbit warren
rabbit's foot
rabbit's-foot
rabbit's-foot clover
rabbit-backed
rabbit-chasing
rabbit-ear
rabbit-ear faucet
rabbit-eared
rabbit-faced
rabbit-foot
rabbit-foot clover
rabbit-foot grass
rabbit-meat
rabbit-mouthed
rabbit-proof fence
rabbit-shouldered
rabbit-tail grass
rabbitskin glue
rabble rout
rabble-charming
rabble-chosen
rabble-courting
rabble-curbing
rabble-rouse
rabble-roused
rabble-rouser
rabble-rousing
raccoon dog
raccoon dog
raccoon fox
raccoon grape
raccoon oyster
racemic acid
racemo-
racemose gland
rachi-
racial discrimination
racial immunity
racial memory
racial segregation
racial unconscious
racing car
racing crab
racing flag
racing form
racing gig
racing glass
racing iron
racing plate
racing saddle
racing shell
racing skate
racing skiff
racing stream
racing yacht
rack back
rack bar
rack block
rack car
rack clock
rack comb
rack locomotive
rack pillar
rack pin
rack punch
rack rail
rack railway
rack rent
rack saw
rack the rents
rack up
rack up the rents
rack wheel
rack your brains
rack-and-pinion
rack-and-pinion railroad
rack-and-pinion railway
rack-rent
rack-renter
rack-stick
racket court
racket press
racket wheel
racket-tail
rackets, the
racimo-oxalic
radar antenna
radar application
radar astronomer
radar astronomy
radar beacon
radar beacon buoy
radar bombsight
radar controls
radar countermeasure
radar defenses
radar dome
radar engineer
radar fence
radar highway patrol
radar interference
radar marked beacon
radar nacelle
radar navigation
radar nose
radar operation
radar parts
radar picket plane
radar pulse
radar reflector
radar scanner
radar screen
radar signal
radar speed meter
radar station
radar technician
radar telescope
radar tracking station
radar trap
radar-telephone relay
radial engine
radial motion
radial saw
radial symmetry
radial tire
radial triangulation
radial tyre
radial velocity
radial-flow turbine
radial-ply
radiant efficiency
radiant emittance
radiant energy
radiant exitance
radiant flux
radiant heat
radiant heater
radiant heating
radiant intensity
radiant point
radiant splendor
radiant-heat brooder
radiate cheer
radiate heat
radiate-veined
radiation atom
radiation belt
radiation counter
radiation counters and chambers
radiation fog
radiation pattern
radiation physicist
radiation physics
radiation potential
radiation pressure
radiation pyrometer
radiation sickness
radiation therapy
radiatio-
radiato-undulate
radiator cap
radiator casing
radiator compound
radiator core
radiator foot
radiator gauge
radiator grille
radiator maker
radiator making
radiator tank
radiator valve
radical axis
radical change
radical chic
radical empiricism
radical empiricist
radical expression
radical operation
radical reform
radical right
radical rightism
radical sign
radical therapy
radici-
radio aerial
radio altimeter
radio amateur
radio antenna
radio astronomer
radio astronomy
radio audience
radio beacon
radio beam
radio bearing
radio broadcast
radio broadcasting
radio car
radio channel
radio circuit
radio communication
radio compass
radio compass station
radio control
radio detection and ranging
radio direction finder
radio drama
radio electrician
radio electronics
radio engineer
radio engineering
radio fare
radio field intensity
radio frequency
radio horizon
radio interference
radio interferometer
radio knife
radio link
radio links
radio listener
radio marker
radio mast
radio mirror
radio navigation
radio observatory
radio operator
radio play
radio program
radio proximity fuze
radio range
radio range beacon
radio range station
radio receiver
radio reception
radio relay station
radio room
radio set
radio shack
radio show
radio signal
radio source
radio spectator
radio spectrum
radio star
radio station
radio technician
radio telescope
radio transmission
radio transmitter
radio tube
radio tubes
radio units
radio valve
radio wave
radio window
radio-active
radio-controlled lifeboat
radio-frequency
radio-frequency amplification
radio-frequency amplifier
radio-frequency circuit
radio-frequency echoes
radio-frequency heater
radio-frequency pulse
radio-frequency signal
radio-frequency stage
radio-frequency tube
radio-iodine
radio-navigational trainer
radio-phonograph
radio-phonograph combination
radio-record player
radio-ulna
radio-ulnar
radioactive decay
radioactive dust
radioactive element
radioactive elements
radioactive emanation
radioactive fallout
radioactive isotope
radioactive particle
radioactive radiation
radioactive series
radioactive substance
radioactive unit
radioactive units
radioactive waste
radiocarbon dating
radiological physics
radiosonde balloon
radiotelephone transmitter
radiotherapeutic substance
radiotherapeutic treatment
radish tree
radium B
radium bath
radium dial
radium emanation
radium lead
radium miner
radium paint
radium therapy
radium vermilion
radium-proof
radius bar
radius gauge
radius of action
radius of convergence
radius of curvature
radius of gyration
radius rod
radius trowel
radius vector
radius vectors
radix graminis
radix point
radon seed
raffia palm
raffle off
raffle wheel
raft body
raft dog
raft duck
raft ice
raft of money
raft port
rafted ice
rafter dam
rafter table
rag baby
rag bag
rag beater
rag bleacher
rag board
rag bolt
rag bush
rag carpet
rag chopper
rag dealer
rag doll
rag engine
rag fair
rag felt
rag gourd
rag lining
rag money
rag mop
rag offering
rag out
rag paper
rag peddler
rag pulp
rag rug
rag shop
rag stock
rag trade
rag tree
rag up
rag well
rag wheel
rag wool
rag work
rag-and-bone man
rag-and-chain pump
rag-bag
rag-bailing
rail line
rail lock
rail maker
rail making
rail plate
rail setter
rail straightener
rail tongs
rail track
rail train
rail-bearing
rail-bending
rail-bonding
rail-borne
rail-cutting
rail-laying
rail-ocean
rail-ridden
rail-sawing
rail-splitter
rail-splitting
railroad center
railroad chair
railroad engineer
railroad engineering
railroad euchre
railroad flat
railroad furniture
railroad jack
railroad lantern
railroad line
railroad man
railroad pen
railroad radio
railroad scale
railroad sickness
railroad station
railroad telegraphy
railroad through
railroad train
railroad truck
railroad tunnel
railroad worm
railway car
railway express
railway guard
railway line
railway mail car
railway maker
railway making
railway man
railway spine
railway stitch
railway-borne
rain area
rain barrel
rain belt
rain bullfrogs
rain cats and dogs
rain chamber
rain check
rain cloud
rain course
rain dance
rain doctor
rain dogs and polecats
rain down
rain forest
rain gauge
rain glass
rain god
rain gods
rain insurance
rain leader
rain lily
rain maker
rain making
rain or shine
rain out
rain pie
rain pipe
rain pitchforks
rain print
rain rot
rain shadow
rain shower
rain spot
rain suit
rain tadpoles
rain tree
rain water
rain wind rose
rain-awakened
rain-bearing
rain-beat
rain-beaten
rainbow-tinted
rainbow-winged
rainette green
rainwater pipe
rainy day
rainy season
rainy weather
raise Cain
raise Ned
raise a clamor
raise a cry
raise a din
raise a hand against
raise a howl
raise a hue and cry
raise a hue and cry against
raise a hullabaloo
raise a laugh
raise a question
raise a ruckus
raise a rumpus
raise a siege
raise a smile
raise a storm
raise aloft
raise an alarm
raise animals
raise apprehensions
raise expectation
raise expectations
raise from the dead
raise ghosts
raise hell
raise hob
raise hob with
raise hope
raise merry hell
raise money
raise objections
raise sand
raise the curtain
raise the deuce
raise the devil
raise the dickens
raise the drawbridge
raise the elbow
raise the hue and cry
raise the hunt
raise the roof
raise the spirits
raise the temperature
raise to a fever heat
raise to a fever pitch
raise to more than one
raise up
raise up the voice
raise your choler
raise your dander
raise your eyebrows
raise your gorge
raise your hackles
raise your hand against
raise your hopes
raise your pay
raise your voice
raise your voice against
raised beach
raised doughnut
raised girt
raised in a barn
raised quarter-deck
raisin black
raisin bread
raisin grape
raisin purple
raisin tree
raisin wine
raisin-colored
raising bee
raising hammer
raising of temperature
raising plate
raising-piece
raison d'etat
raison d'etre
raison d'tre
raj-kumari
rake in
rake out
rake over the coals
rake up
rake up the past
rake vein
rake-hell
rake-off
rake-teeth
range the world
range through
range with
range wool
range yourself on the side of
range yourself with
range-bred
range-marker generator
range-sweep amplifier
range-sweep generator
ranging pole
rank and file
rank beneath
rank first
rank high
rank low
rank out
rank under
rank-and-filer
rank-brained
rank-feeding
rank-growing
rank-grown
rank-minded
rank-out
rank-scented
rank-scenting
rank-smelling
rank-springing
rank-swelling
rank-tasting
rank-winged
ranking bar
ranking jumper
rankle in the breast
ransack your brains
ransom bill
ransom bond
rant and rave
rantum-scantum
ranz-des-vaches
rap full
rap on the knuckles
rap out an oath
rap session
rap sheet
rap shot
rap-full
rare good humor
rare metals
rare-bred
rare-earth element
rare-earth elements
rare-earth metal
rare-earth metals
rare-featured
rare-felt
rare-gifted
rare-painted
rare-qualified
rare-ripe
rare-seen
rare-shaped
rare show
rare-show
rarin' to go
raring to
rascally knave
rash conviction
rash impulse
rash-brain
rash-brained
rash-conceived
rash-embraced
rash-headed
rash-hearted
rash-levied
rash-minded
rash-pledged
rash-running
rash-spoken
rash-thoughted
rasher of bacon
rasing iron
rasing knife
rasp grass
rasp house
rasp palm
rasp pod
raspberry apple
raspberry beetle
raspberry bug
raspberry curl
raspberry mosaic
raspberry red
raspberry root borer
rat-tailed maggot
rat-tat
rat-tat-tat
rat-tattle
rat-tight
rat-trap
ratable value
ratafia biscuit
ratatat-tat
rathbite disease
rathbite fever
ratchet brace
ratchet chain
ratchet clock
ratchet coupling
ratchet crank
ratchet drill
ratchet jack
ratchet stop
ratchet thread
ratchet tooth
ratchet wheel
ratchet-toothed
rate action
rate base
rate cap
rate determination
rate highly
rate low
rate maker
rate making
rate of exchange
rate of interest
rate-aided
rate-cutting
rate-fixing
rate-of-climb indicator
rate-raising
rate-setting
rated load
rathe-ripe
rather than
rating badge
rating flume
rating nut
ratio arm
ratio cognoscendi
ratio test
ravages of time
rave about
rave against
rave hook
rave-up
ravel bread
ravel out
raven black
raven cockatoo
raven gray
raven standard
raven-black
raven-colored
raven-feathered
raven-haired
raven-plumed
raven-toned
raven-torn
raven-tressed
ravigote sauce
ravine deer
raving beauty
raving lunatic
raving mad
ravished away
ravison oil
raw comedy
raw data
raw deal
raw fibers
raw glaze
raw material
raw milk
raw nerve
raw nerves
raw recruit
raw score
raw sienna
raw silk
raw umber
raw vegetables
raw weather
raw wind
raw, the
raw-bone
raw-boned
raw-colored
raw-devouring
raw-edged
raw-faced
raw-handed
raw-head
raw-headed
raw-looking
raw-mouthed
raw-nosed
raw-pack method
raw-ribbed
raw-striped
raw-wool
ray filter
ray floret
ray flower
ray fungus
ray grass
ray gun
ray of hope
ray of light
ray of sunshine
ray pod
ray therapy
ray-fringed
ray-gilt
ray-girt
ray-grass
ray-illumined
ray-lit
ray-strewn
rayless goldenrod
rayon casheen
rayon stockings
raze to the dust
raze to the ground
razee plane
razen bomb
razor blade
razor clam
razor fish
razor grass
razor saw
razor shell
razor stone
razor strap
razor temper
razor-back
razor-backed
re-dress
re-earn
re-ebullient
re-echo
re-edificate
re-edification
re-edifier
re-edify
re-edit
re-educate
re-education
re-educative
re-effeminate
re-egg
re-ejaculate
re-eject
re-ejection
re-ejectment
re-elaborate
re-elaboration
re-elect
re-election
re-elevate
re-elevation
re-eligibility
re-eligible
re-eliminate
re-elimination
re-emanate
re-embark
re-embarkation
re-embarrass
re-embarrassment
re-embattle
re-embed
re-embellish
re-embodiment
re-embody
re-embosom
re-embrace
re-embracement
re-embroil
re-emerge
re-emergence
re-emergent
re-emersion
re-emigrant
re-emigrate
re-emigration
re-emission
re-emit
re-emphasis
re-emphasize
re-employ
re-employment
re-empower
re-empty
re-emulsify
re-enable
re-enact
re-enaction
re-enactment
re-enamel
re-enamor
re-enamour
re-enchain
re-enclose
re-enclosure
re-encounter
re-encourage
re-encouragement
re-endear
re-endearment
re-ender
re-endorse
re-endorsement
re-endow
re-endowment
re-energize
re-enfeoff
re-enfeoffment
re-enforce
re-enforcement
re-enforcer
re-enfranchise
re-enfranchisement
re-engage
re-engagement
re-engender
re-engenderer
re-engine
re-engraft
re-engrave
re-engraving
re-engross
re-enhearten
re-equipment
re-erect
re-erection
re-escape
re-escort
re-esposual
re-espose
re-essay
re-establish
re-establisher
re-establishment
re-esteem
re-estimate
re-estimation
re-etch
re-etcher
re-evacuate
re-evacuation
re-evade
re-evaluate
re-evaluation
re-evaporate
re-evaporation
re-evasion
re-evoke
re-evolution
re-exalt
re-examinable
re-examination
re-examine
re-examiner
re-excavate
re-excavation
re-excel
re-exchange
re-excitation
re-excite
re-exclude
re-exclusion
re-execute
re-execution
re-exempt
re-exemption
re-exercise
re-exert
re-exertion
re-exhale
re-exhaust
re-exhibit
re-exhibition
re-exhilarate
re-exhilaration
re-exist
re-existence
re-existent
re-expand
re-expansion
re-expect
re-expectation
re-expedite
re-expedition
re-expel
re-experience
re-experiment
re-explain
re-explanation
re-export
re-exportation
re-exporter
re-expose
re-exposure
re-expound
re-express
re-expression
re-expulsion
re-extend
re-extension
re-extent
re-extract
re-extraction
re-form
re-formation
re-formative
re-former
re-fund
re-genesis
re-ice
re-ink
re-laid
re-lay
re-laying
re-lease
re-leased
re-leasing
re-mark
re-pose
re-posed
re-posing
re-present
re-presentation
re-presentment
re-press
re-proof
re-prove
re-proved
re-proven
re-proving
re-reaction
re-rebel
re-receive
re-reception
re-recital
re-recite
re-reckon
re-recognition
re-recognize
re-recollect
re-recollection
re-recommend
re-recommendation
re-reconcile
re-reconciliation
re-record
re-recover
re-rectification
re-rectify
re-reduce
re-reduction
re-refer
re-refine
re-reflect
re-reflection
re-reform
re-reformation
re-refusal
re-refuse
re-regenerate
re-regeneration
re-rehearsal
re-rehearse
re-reiterate
re-reiteration
re-reject
re-rejection
re-rejoinder
re-relate
re-relation
re-release
re-relish
re-rely
re-remember
re-remind
re-remit
re-removal
re-remove
re-rendition
re-repair
re-repeat
re-repent
re-replevin
re-reply
re-report
re-represent
re-representation
re-reproach
re-request
re-require
re-requirement
re-rescue
re-resent
re-resentment
re-reservation
re-reserve
re-reside
re-residence
re-resign
re-resignation
re-resolution
re-resolve
re-respond
re-response
re-restitution
re-restoration
re-restore
re-restrain
re-restraint
re-restrict
re-restriction
re-retire
re-retirement
re-return
re-reveal
re-revealation
re-revenge
re-reversal
re-reverse
re-revise
re-revision
re-search
re-serve
re-sign
re-soluble
re-solution
re-sort
re-sorter
re-sound
re-store
re-strain
re-trace
re-traced
re-tracing
re-tread
re-treader
re-treat
re-treatment
re-trench
re-try
re-turn
re-up
re-use
reach a better land
reach a better life
reach a better place
reach a better world
reach a compromise
reach a new low
reach a parting of the ways
reach boat
reach boiling point
reach its season
reach land
reach manhood
reach maturity
reach of mind
reach orgasm
reach out
reach perfection
reach rod
reach safety
reach the age of consent
reach the breaking point
reach the depths
reach the ear
reach the ear of
reach the snapping point
reach to
reach twenty-one
reach voting age
reach womanhood
reach your destination
reach your ears
reach your goal
reach your majority
reach your nostrils
reach-me-down
reach-me-downs
reacher-in
reaching foresail
reaching high
reaching jib
reaching post
react chemically
reactance coil
reactance drop
reaction border
reaction engine
reaction formation
reaction locus
reaction machine
reaction motor
reaction propulsion
reaction rim
reaction ring
reaction time
reaction turbine
reaction wheel
reaction-proof
reactive current
reactive inflammation
reactive neurosis
reactive psychosis
reactor engine
reactor pile
read a lecture
read a lecture to
read a lesson
read a lesson to
read a sermon
read between the lines
read copy
read easily
read for
read in
read in view of
read into
read law
read out
read out of
read palms
read tea leaves
read the future
read the meter
read the riot act
read up
read up on
read with
read your hand
read your lines
read yourself in
read-write head
reader-off
readiness of feeling
readiness of speech
reading book
reading chair
reading desk
reading distance
reading glass
reading glasses
reading hook
reading in
reading lamp
reading man
reading matter
reading notice
reading pew
reading room
reading, writing, and arithmetic
reading-in machine
ready about
ready and willing
ready at hand
ready box
ready for
ready for anything
ready for bed
ready money
ready pen
ready reckoner
ready reply
ready retort
ready roofing
ready room
ready to
ready to believe
ready to burst
ready to burst forth
ready to cry
ready to drop
ready up
ready wit
ready yourself
ready yourself to
ready-armed
ready-beaten
ready-bent
ready-braced
ready-built
ready-coined
ready-cooked
ready-cut
ready-dressed
ready-for-wear
ready-formed
ready-furnished
ready-grown
ready-handed
ready-made
ready-mades
ready-mix
ready-mixed
ready-mounted
ready-penned
ready-prepared
ready-reference
ready-sanded
ready-sensitized
ready-shapen
ready-starched
ready-to-wear
ready-tongued
ready-typed
ready-winged
ready-witted
ready-wittedly
ready-wittedness
ready-worded
ready-written
reagent bottle
real McCoy, the
real axis
real estate
real estate agent
real estate broker
real income
real issue
real lady
real man
real meaning
real number
real part
real presence
real property
real scholar
real school
real tennis
real thing, the
real variable
real wages
real woman
real-estate trust
real-hearted
real-minded
real-sighted
real-time
realgar orange
realgar yellow
realistic comedy
realistic description
realistic representation
reality therapy
realize on
realize profit
really into
really something
really-truly
realm of light
realm-bounding
realm-conquering
realm-destroying
realm-governing
realm-peopling
realm-subduing
realm-sucking
realm-unpeopling
ream ass
ream out
reaming-out
reap and carry
reap gapeseed
reap profit
reap the benefit of
reap the fruits of
reap the whirlwind
reap where you have sown
reaper binder
reaper binder Obsolete
reaper file
reaper thresher
reaping hook
reaping machine
rear admiral
rear aloft
rear arch
rear area
rear echelon
rear end
rear guard
rear its head
rear light
rear projection
rear sight
rear up
rear vault
rear-admiral
rear-arch
rear-cut
rear-directed
rear-driven
rear-driving
rear-end
rear-guard
rear-horse
rear-steering
rear-vassal
rear-vault
rear-view mirror
rear-vision mirror
rearguard action
receive with open arms
received meaning
receiver of stolen goods
receiver part
receiver parts
receiver-general
receiving antenna
receiving blanket
receiving line
receiving note
receiving order
receiving pallet
receiving set
receiving ship
receiving station
receiving tube
recent past
receptaculum seminis
reception hall
reception room
receptive mood
recess appointment
recess bed
recess committee
recess of the memory
recesses of the heart
recession from one another
recessional hymn
recessional march
recessive character
recharge your batteries
rechargeable-battery radio
reciprocal exchange
reciprocal insurance
reciprocal leveling
reciprocal ohm
reciprocal or mutual relation
reciprocal pronoun
reciprocal trade
reciprocal transfusion
reciprocating engine
reciprocity failure
reciprocity law
recitation room
recitativi accompagnati
recitativi secchi
recitativo accompagnato
recitativo secco
recitativo stromentato
recite the rosary
reciting note
reciting the rosary
reck- less
reckless expenditure
reckless person
reckless spending
reckon among
reckon in
reckon on
reckon up
reckon up to
reckon with
reckon without your host
reclaimed rubber
reclamation district
recline on
reclining chair
reclining lounge chair
recognition mark
recoil atom
recoil cylinder
recoil electron
recoil escapement
recoil wave
recoilless rifle
recommend itself
recommended price
reconcile yourself to
reconnaissance car
reconnaissance mission
reconnaissance plane
reconnaissance rocket
reconnaissance ship
reconstructive operation
reconstructive surgery
record book
record changer
record clerk
record holder
record hop
record keeping
record player
record ribbon
record time
record vote
record-bearing
record-beating
record-breaking
record-changer
record-making
record-player
record-seeking
record-setting
recorded delivery
recording altimeter
recording analyzer
recording anemometer
recording angel
recording barometer
recording hygrometer
recording instrument
recording instruments
recording meter
recording potentiometer
recording pyrometer
recording secretary
records-pulse generator
recover health
recover knowledge of
recover one's equilibrium
recover your balance
recover your equilibrium
recover your sanity
recovery coke
recovery oven
recovery peg
recovery room
recreation ground
recreation room
recreational therapy
recruit your strength
recruiting ground
rect-
rectangular coordinate
rectangular coordinates
rectangular data
rectangular hyperbola
rectangular number
recti-
rectifier circuit
rectifier instrument
rectifier tube
rectilinear number
recto-
recto-urethral
recto-uterine
rectovesical fascia
rectus abdominus
rectus femoris
recumbent anticline
recuperative furnace
recur to
recur to the mind
recurrence formula
recurrent fever
recurring action
recurring decimal
recursion formula
recurvo-
red admiral
red alder
red alert
red alga
red alga
red ant
red as a beet
red as a hot coal
red as a live coal
red as a lobster
red as a turkey-cock
red as blood
red as fire
red bag
red bark
red bay
red biddy
red birch
red blindness
red blood
red blood cell
red blood corpuscle
red book
red brass
red breast
red brush
red bryony
red bug
red cabbage
red calla lily
red cap
red carpet
red cedar
red cent
red chalk
red chokeberry
red clay
red clover
red cluster pepper
red coat
red colors and pigments
red coral
red corpuscle
red count
red cross
red currant
red dead nettle
red deer
red devil
red dogwood
red drum
red duster
red dwarf
red earth
red elm
red ensign
red false mallow
red feed
red fescue
red fir
red fire
red fish
red flag
red flash
red flour beetle
red fox
red giant
red giant star
red grouse
red gum
red hand
red hands
red hat
red heat
red herring
red hind
red horse
red horse chestnut
red in the face
red indian
red jasmine
red jungle fowl
red kauri
red kowhai
red label
red larkspur
red lattice
red lead
red leaf
red letter
red light
red line
red liquor
red maids
red man
red maple
red mass
red meat
red mercuric oxide
red mercuric sulfide
red mombin
red mulberry
red mullet
red oak
red ocher
red ochre
red orpiment
red osier
red packet
red pepper
red periwinkle
red pine
red pink
red poll
red prussiate of potash
red puccoon
red race
red rag
red rag to a bull
red rat snake
red ribbon
red robin
red roncador
red rose
red rot
red rover
red rust
red sable
red sage
red salmon
red sand
red setter
red shank
red shanks
red shift
red sindhi
red siskin
red snapper
red snow
red spider
red squill
red squirrel
red stuff
red tai
red tape
red tide
red tipped moss
red trillium
red turtlehead
red valerian
red water
red whortleberry
red wine
red worm
red zinc ore
red, white, and blue
red-alder
red-armed
red-backed
red-backed sandpiper
red-backed shrike
red-bait
red-baiting
red-banded
red-bar
red-barked
red-beaded
red-beaked
red-beamed
red-bearded
red-bellied
red-bellied turtle
red-belted
red-berried
red-billed
red-black
red-blind
red-blooded
red-bloodedness
red-bodied
red-boled
red-bonnet
red-bound
red-branched
red-branching
red-breasted
red-brick
red-brick university
red-brown
red-burning
red-buttoned
red-carpet
red-cheeked
red-chested
red-ciled
red-ciling
red-cilled
red-cilling
red-clad
red-clay
red-cloaked
red-clocked
red-coat
red-coated
red-cockaded
red-collared
red-colored
red-combed
red-complexioned
red-crested
red-crowned
red-curtained
red-dabbled
red-dog
red-dogged
red-dogger
red-dogging
red-dyed
red-eared
red-edged
red-eye
red-eyed
red-eyed vireo
red-faced
red-facedly
red-facedness
red-feathered
red-figure
red-figured
red-finned
red-flag
red-flag law
red-flagger
red-flaggery
red-flanked
red-flecked
red-fleshed
red-flowered
red-flowering
red-footed
red-fronted
red-fruit
red-gelled
red-gelled
red-gleaming
red-gold
red-gowned
red-gowned-red-green blind
red-green blind
red-green blindness
red-haired
red-hand
red-handed
red-handedly
red-handedness
red-hard
red-harden
red-hardness
red-hat
red-hatted
red-head
red-headed
red-headed woodpecker
red-heel
red-herring prospectus
red-hipped
red-hissing
red-hooded
red-horned
red-hot
red-hot poker
red-hued
red-humped
red-ink
red-jerseyed
red-kneed
red-knobbed
red-lead
red-lead ore
red-lead putty
red-leader
red-leaf
red-leather
red-leaved
red-legged
red-legged partridge
red-legs
red-letter
red-letter day
red-lettered
red-lidded
red-light
red-light district
red-lined
red-lipped
red-listed
red-lit
red-litten
red-looking
red-making
red-minded
red-mouthed
red-naped
red-neck
red-necked
red-nosed
red-orange
red-out
red-painted
red-pencil
red-plowed
red-plumed
red-polled
red-purple
red-ribbed
red-rimmed
red-ripening
red-roan
red-roofed
red-rooted
red-rose
red-rumped
red-rusted
red-scaled
red-scarlet
red-shafted
red-shank
red-shirted
red-short
red-shortness
red-shouldered
red-shouldered hawk
red-sided
red-silk
red-skinned
red-snooded
red-specked
red-speckled
red-spotted
red-spotted purple
red-stalked
red-streak
red-streaked
red-streaming
red-swelling
red-tailed
red-tailed hawk
red-tape
red-taped
red-tapedom
red-tapeism
red-taper
red-tapery
red-tapey
red-tapish
red-tapism
red-tapist
red-tempered
red-thighed
red-throat
red-throated
red-tiled
red-tinted
red-tipped
red-tongued
red-top
red-topped
red-topped buffalo grass
red-trousered
red-tufted
red-twigged
red-up
red-upholstered
red-veined
red-vented
red-vested
red-violet
red-walled
red-wat
red-water
red-wattled
red-waved
red-white
red-winged
red-winged blackbird
red-wooded
red-written
red-yellow
redback spider
redbelly dace
redbrick university
redd-up
reddish brown
reddish brown colors
reddish-amber
reddish-bay
reddish-bellied
reddish-black
reddish-blue
reddish-brown
reddish-colored
reddish-gray
reddish-green
reddish-haired
reddish-headed
reddish-looking
reddish-orange
reddish-purple
reddish-white
reddish-yellow
redear sunfish
redeem your pledge
redeem your pledges
redeemable bond
redeemed soul
redemption center
redemption fund
redevelopment area
redevelopment company
redhead-grass
redheart hickory
redhorse sucker
redirect examination
rediscountrate
redmouth buffalo fish
redouble your efforts
redound to
redound to the honor of
redound to your honor
redox potential
redpoll linnet
redpoll warbler
redrawing press
redrawing punch
redress a wrong
redress an injustice
reduce sail
reduce the temperature
reduce to
reduce to ashes
reduce to dust
reduce to elements
reduce to essentials
reduce to order
reduce to powder
reduce to rubble
reduce to silence
reduce to unity
reduce to writing
reduce weight
reduced circumstances
reduced hemoglobin
reduced in health
reduced level
reduced mass
reduced paid-up insurance
reduced price
reduced rates
reduced sail
reduced sight
reduced to a skeleton
reduced to dire straits
reduced to jelly
reduced to powder
reduced vowel
reducer sleeve
reducible algebra
reducing agent
reducing diet
reducing furnace
reducing glass
reducing press
reducing valve
reducing wheels
reductase test
reductio ad absurdum
reduction division
reduction formula
reduction of armaments
reduction of expenses
reduction of government spending
reduction of spending
reduction of temperature
reduction potential
reduction to ashes
reduction to dust
reduction to elements
reduction to parts
reduction to powder
reduction works
reduction-improbation
redundant check
redundant verb
redwing blackbird
reed basket
reed bent
reed bunting
reed canary grass
reed fescue
reed grass
reed green
reed instrument
reed mace
reed mark
reed meadow grass
reed organ
reed pipe
reed plane
reed stop
reed thrush
reed warbler
reed wren
reed yellow
reed-back
reed-blade
reed-bordered
reed-clad
reed-compacted
reed-crowned
reed-grown
reed-mace
reed-rond
reed-roofed
reed-rustling
reed-shaped
reed-thatched
reed-warbler
reef band
reef cringle
reef down
reef earing
reef goose
reef hook
reef jig
reef jigger
reef knot
reef pendant
reef point
reef tackle
reef your sails
reef-knoll
reef-knot
reefed sail
reefing bowsprit
reefing jacket
reek of piety
reeel and bead
reeel back
reeel borer
reeel foot
reeel in
reeel man
reeel off
reeel oven
reeel-fed
reeel-fitted
reeel-footed
reeel-to-reeel
reeeled silk
reeeling hammer
reemitting beetle
reemitting iron
reentering angle
reentering polygon
reeving-line bend
refectory table
refer to
reference book
reference editor
reference electrode
reference frame
reference gauge
reference group
reference librarian
reference library
reference mark
reference marks
reference peg
reference quantity
reference system
reference to
reference-voltage generator
referendum dollar
referred pain
referred to
referring to
refine a distinction
refine upon
refined discrimination
refined palate
refined sense of hearing
refined taste
refining engine
refining equipment
refining heat
refining place
reflect discredit upon
reflect honor on
reflect over
reflect upon
reflected light
reflected light meter
reflected plan
reflected signal
reflecting telescope
reflection density
reflection factor
reflection plane
reflector mirror
reflex act
reflex action
reflex angle
reflex arc
reflex camera
reflex epilepsy
reflex klystron
reflex zenith tube
reflexive pronoun
reflux condenser
reflux value
reform Jew
reform judaism
reform politician
reform politics
reform school
reform yourself
reformation-proof
reformed spelling
refracting telescope
refraction circle
refractive index
refractory brick
refractory clay
refractory ware
refrain from
refresh the inner man
refresh the memory
refresh the memory of
refresher course
refrigerating engine
refrigerating engineer
refrigerating engineering
refrigerating machine
refrigerating plant
refrigeration anesthesia
refrigeration ship
refrigerator car
refrigerator truck
refund annuity
refunding bond
refusal to be amazed
refusal to be awed
refusal to be impressed
refusal to believe
refuse comment
refuse consent
refuse credence to
refuse credit to
refuse destructor
refuse heap
refuse lac
refuse point-blank
refuse stays
refuse summarily
refuse to accept
refuse to acknowledge
refuse to admit
refuse to associate with
refuse to be impressed
refuse to believe
refuse to consider
refuse to cooperate
refuse to credit
refuse to pay
refuse to receive
refuse to recognize
refuse to shed blood
refuse work
refusing work
regal purple
regard before
regard studiously
regard with indulgence
regardless of
regardless of consequences
regardless of cost
regenerated cellulose
regenerative cooling
regenerative furnace
regenerative receiver
regenerative wave-meter
regent bird
regent house
regie-book
regimental tie
regional accent
regional dialect
regional enteritis
regional governor
regional novel
regional school
regions of
register a complaint
register breadth
register length
register of deaths
register of wills
register office
register point
register regulator
register thermometer
register ton
register tonnage
register with
registered Democrat
registered Republican
registered bond
registered breadth
registered certificate
registered depth
registered length
registered lobbyist
registered mail
registered nurse
registered post
registered representative
registered securities
registered trademark
registered voter
registering rocket
registrar-general
registration area
registration county
registration number
registry office
regius professor
regression coefficient
regression neurosis
regression therapy
regressive sorites
regressive tax
regressive taxation
regular army
regular as clockwork
regular bevel
regular buyer
regular canoness
regular customer
regular dividend
regular gas
regular lay
regular ode
rejoice in the name of
rejoice the heart
rejoice with
relapsing fever
relate at large
relate in extenso
relate to
relate to emotionally
related by blood
related word
relating to
relation word
relative aperture
relative atomic mass
relative bearing
relative by marriage
relative clause
relative complement
relative density
relative dispersion
relative electron affinity
relative frequency
relative heading
relative humidit
relative humidity
relative incidence
relative magnitude
relative major
relative majority
relative maximum
relative minimum
relative minor
relative molecular mass
relative permeability
relative permittivity
relative pitch
relative pronoun
relative to
relative topology
relative wind
relative-in-law
relatively prime numbers
relatives-in-law
relativistic quantum mechanics
relativity doublet
relativity shift
relax conditions
relax the condition
relieving tackle
religio-
religio-educational
religio-magical
religio-military
religio-philosophical
religio-political
religio-scientific
religions and sects
religious belief
religious believer
religious ceremony
religious discourse
religious education
religious faith
religious founder
religious house
religious humbug
religious hypocrite
religious leader
religious order
religious prophets
religious rites
religious school
religious truth
religious war
religious-minded
religious-mindedness
religiously exact
relinquish your life
relocation camp
reluctance amplifier
rely on
rely on fortune
rely upon
remain anonymous
remain at a distance
remain at peace
remain firm
remain in the shade
remain in your memory
remain incommunicado
remain motionless
remain neutral
remain on your hands
remain seated
remain stable
remain unmoved
remain valid
remainder theorem
remand home
remand school
remanent magnetism
remark upon
remarkably like
remarque proof
remedial measure
remedial of
remedy an injustice
remedy-proof
remembrance day
remind one of
remind you of
remission of sin
remit the penalty of
remittance man
remittent fever
remontoir escapement
remorse of conscience
remote age
remote cause
remote control
remote distance
remote future
remote handling
remote past
remote pickup
remote possibility
remote region
remote resemblance
remote time
remote-control
remote-controlled
remote-pickup unit
remotely like
remotely related
remotest corner of the world
remoulade sauce
remount cavalry
removal cutting
removal to Abraham's bosom
removal to heaven
remove all doubt
remove all restrictions
remove friction
remove from life
remove from office
removed from the record
removing the veil
remuneratory sanction
renal calculus
renal hematuria
renal pelvis
renal splanchnic nerve
rend asunder
rend from
rend the air
rend the eardrums
rend the ears
rend the firmament
rend the heart
rend the skies
render a service
render assistance
render blind
render credit
render honor to
render insensible
render lip service
render powerless
render recognition
render service to
render thanks
render up
rendering coat
rendering works
renew your strength
reni-
rennet bag
rennet casein
rennet ferment
renounce the throne
rent charge
rent charger
rent control
rent gouger
rent insurance
rent money
rent out
rent party
rent resolute
rent seck
rent service
rent-charge
rent-collecting
rent-free
rent-paying
rent-producing
rent-raising
rent-reducing
rent-roll
rent-seck
rent-service
rental car
rental color income
rental library
rents seck
renunciation of the world
rep show
repair run
repair ship
repair shop
repair to
reparative surgery
repay in kind
repeat again
repeat by heart
repeat by rote
repeat like a broken record
repeat like a parrot
repeat order
repeat performance
repeat verbatim
repeat word for word
repeat yourself
repeated figure
repeated sounds
repeating decimal
repeating firearm
repeating theodolite
repeating watch
repent in sackcloth and ashes
repertory company
repertory drama
repertory show
repertory theater
repetition for effect
repetition for emphasis
replacement cost
replacement therapy
replacement transfusion
replacement vein
replica grating
reply by return mail
reply card
reply coupon
reply to
report card
report for duty
report out
report stage
reported speech
reporting pay
repose confidence in
repose in
repose on
repose on your laurels
repose upon
represent yourself to be
representative art
representative democracy
representative fraction
representative government
representative of the press
representative realism
representative town meeting
representative-elect
representing in the mind
repress a smile
repress your desires
repro proof
reproach yourself
reproduce after your kind
reproduce in kind
reproducing element
reproduction cost
reproduction proof
reproductive cell
reproductive imagination
reproductive organs
reproving look
reptilian age
republic of letters
request note
request stop
request the presence of
requiem mass
requiem shark
requiescant in pace
requiescat in pace
reserve ration
reserve supply
reserve yourself
reserved list
reserved occupation
reserved power
reset action
reside in
resident commissioner
resident maid
resident physician
residential district
residual clay
residual magnetism
residual power
residual stress
residuary devisee
residuary legatee
resign from
resign your being
resign your life
resign yourself
resign yourself to
resignation bond
resigned-looking
resin alcohol
resin bee
resin canal
resin cerate
resin distiller
resin gnat
resin jack
resin oil
resin opal
resin plant
resin plastic
resin soap
resin spirit
resino-
resist believing
resist entreaty
resist persuasion
resist printing
resistance box
resistance butt welding
resistance capacitance
resistance coil
resistance coupling
resistance derivative
resistance drop
resistance fighter
resistance fighting
resistance frame
resistance furnace
resistance pyrometer
resistance thermometer
resistance to belief
resistance to change
resistance welding
resisting medium
resisting moment
resistive conductor
resistive coupling
resistiveness to belief
resojet engine
resojet propulsion
resolutory condition
resolve into
resolve itself into
resolve to
resolved upon
resolving power
resonace box
resonace potential
resonance cavity
resonance curve
resonance duct jet engine
resonance energy
resonance form
resonance frequency
resonance frequency control
resonance hybrid
resonance indicator
resonance jet engine
resonance neutron
resonance pipe
resonance radiation
resonance spectrum
resonance wave coil
resonance-coil antenna
resonant cavity
resonant chamber
resonant frequency
resonant-jet engine
resorcin acetate
resorcin brown
resorcin dark brown
resorcinol monoacetate
resorption border
resort to
resort to arms
resound in the ears
resound the praises of
resounding triumph
respect your duty
respectable citizen
respeian composer
respiration calorimeter
respirato-
respiratory center
respiratory disease
respiratory leaf
respiratory nerve
respiratory pigment
respiratory plate
respiratory quotient
respiratory system
respiratory tree
respiratory trumpet
resplendent trogon
resplendently beautiful
respond to
respond to stimuli
responding note
responsary report
response generalization
response time
response to stimuli
responsible for
responsible person
responsory report
rest and be thankful
rest assured
rest cure
rest day
rest easy
rest energy
rest from your labors
rest hard upon
rest home
rest house
rest in
rest in confidence
rest in peace
rest in the arms of Morpheus
rest mass
rest on
rest on the shoulders of
rest on your laurels
rest on your oars
rest room
rest satisfied
rest stop
rest treatment
rest up
rest upon
rest upon your oars
rest with
rest your case
rest-balk
rest-cure
rest-cured
rest-giving
rest-harrow
rest-home
rest-ordained
rest-refreshed
rest-seeking
rest-taking
restaurant car
restful sleep
resting easy
resting in peace
resting of the case
resting place
resting point
restless cavy
restore harmony
restore self-respect
restore to health
restoring spring
restrain yourself
restraining hand
restraining order
restraint of trade
restrict to
restrict yourself
restricted class
restricted information
restricted practice
restricted propellant
restricted theory of relativity
restriction of intake
restrictive clause
restrictive covenants
restrictive practice
result clause
result from
result on
resultant force
resultant tone
resulting from
resurrecet-tasting liquid
resurrection body
resurrection bolly
resurrection fern
resurrection gate
resurrection man
resurrection pie
resurrection plant
resurrection woman
retail dealer
retail gossip
retail merchant
retail seller
retail store
retain in the thoughts
retain the memory of
retained earnings
retained income
retained object
retained objective complement
retaining fee
retaining wall
retardation method
retentive memory
retentive mind
retia mirabilia
reticular system
reticulate python
reticulated tracery
reticulated vessel
reticulato-
reticulo-
reticuloendothelial system
reticulum cell
reticulum cell sarcoma
retin-
retinal rod
retinitis pigmentosa
retino-
retire from office
retire from sight
retire from the world
retire into the shade
retire into your shell
retired list
retired professor
retirement benefits
retirement from office
retirement income insurance
retiring disposition
retold story
retenation wave
retort an accusation
retort drawer
retort stand
retrace your steps
retractable landing gear
retraced tire
retreat into your mind
retreat into your shell
retreat into your thoughts
retreat to immaturity
retreating market
retributive justice
retro rocket
retro-
retro-float light
retro-ocular
retro-omental
retro-operative
retro-oral
retro-rocket
retro-umbilical
retro-uterine
retroactive inhibition
retroanterograde amnesia
retrograde amnesia
rets currach
return a true bill
return a verdict
return a verdict of not guilty
return address
return answer
return ball
return bead
return beam
rheumatic heart disease
rheumatism of the heart
rheumatism root
rheumatism weed
rheumatism-root
rheumatoid arthritis
rhino-
rhine wine
rhino-
rhinoceros auklet
rhinoceros beetle
rhinoceros bird
rhinoceros bush
rhinoceros hide
rhinoceros hornbill
rhinoceros viper
rhinoceros-shaped
rhinolalia aperta
rhinolalia clausa
rhizo-
rhizocnia disease
rhizosphere effect
rho particle
rhod-
rhode island bent
rhode island red
rhode island white
rhodes grass
rhodes scholar
rhodesian man
rhodium oil
rhodium wood
rhodo-
rhodonite pink
rhomb spar
rhomb-
rhomb-leaved
rhombic aerial
rhombic antenna
rhombo-
rhomboid-ovate
rhubarb wine
rhumb line
rhumbline sailing
rhus dermatitis
rhus glabra
rhyme or reason
rhyme royal
rhyme scheme
rhyme word
rhyme-beginning
rhyme-composing
rhyme-fettered
rhyme-forming
rhyme-free
rhyme-inspiring
rhyme-tagged
rhyming dictionary
rhyming slang
rhyolite-porphyry
rhythm band
rhythm method
rhythm section
rhythm stick
rhythm-and-blues
rhythmic pattern
rhythmic phrase
rhythmic play
rhythmical accent
rhythmical accentuation
rhythmical stress
rib cage
rib cut
rib grass
rib lath
rib meristem
rib rifling
rib roast
rib steak
rib stitch
rib tickler
rib-bearing
rib-breaking
rib-faced
rib-grass
rib-grated
rib-mauled
rib-nosed
rib-pointed
rib-poking
rib-roast
rib-sticking
rib-striped
rib-supported
ride the beam
ride the high horse
ride the hobnail express
ride the sea
ride the shoe-leather
ride the skies
ride to a fall
ride to death
ride to hounds
ride to leeward
ride up
ride embolus
ride keelson
ridge beam
ridge buster
ridge fillet
ridge harrow
ridge oak
ridge plow
ridge rib
ridge rope
ridge runner
ridge stone
ridge strut
ridge tile
ridge-bone
ridge-seeded
ridge-tile
ridging grass
ridging plow
ridicule-proof
ridiculously like
riding academy
riding at anchor
riding boot
riding boots
riding breeches
riding crop
riding habit
riding hood
riding horse
riding lamp
riding light
riding master
riding on cloud nine
riding pants
riding rhyme
riding saddle
riding sail
riding school
riding-coat
riding-habit
riding-hood
rie grass
riemannian geometry
rien du tout
rien ne va plus
riff through
riff-raff
riffle bar
riffle block
riffle file
riffle through
rifle assembler
rifle ball
rifle bar
rifle bird
rifle bomb
rifle corps
rifle fire
rifle frock
rifle green
rifle grenade
rifle gun
rifle pit
rifle range
rifle salute
rifle shot
rifle tie
rifle-bird
rifle-range
rifle-shot
rifled slug
rift board
rift saw
rift valley
rift-sawed
rift-sawing
rift-sawn
rifty-tufty
rig down
rig for diving
rig out
rig shenanigan
rig the market
rig tree
right of asylum
right of center
right of common
right of eminent domain
right of emption
right of entry
right of preemption
right of put and call
right of search
right of sole emption
right of use
right of way
right off
right off the bat
right off the reel
right on
right on end
right people
right reverend
right rudder
right section
right side
right side of the tracks
right side of, the
right smart
right smart spell
right sort
right stage
right standard rudder
right taste
right ten degrees rudder
right thing, the
right thinking
right to vote
right triangle
right whale
right wing
right with
right you are
right-about
right-about-face
right-aiming
right-angle
right-angled
right-angled triangle
right-angledness
right-angular
right-angularity
right-sidedly
right-sidedness
right-thinking
right-to-work law
right-turn
right-up
right-walking
right-wheel
right-wing
right-winger
right-wingish
right-wingism
rightabout-face
righteous indignation
righteous, the
righteye flounder
rightful authority
rightful succession
righting lever
righting moment
rights issue
rights of man
rights of women
rights-of-way
rigid airship
rigid control
rigid discipline
rigid frame
rigid motion
rigid supports
rigid-body
rigid-frame
rigid-nerved
rigid-seeming
rigor mortis
riled up
rilievi schiacciati
rilievo schiacciato
rilievo stiacciato
rill stope
rill-like
rim ash
rim blight
rim clutch
rim lighting
rim lock
rim man
rim of the horizon
rim pulley
rim ram ruf
rim saw
rim shaft
rim wheel
rim-bearing
rim-bending
rim-bound
rim-cut
rim-deep
rim-fire
rimble-ramble
rime frost
rime ice
rime riche
rime suffisante
rime-covered
rime-damp
rime-frost
rime-frosted
rime-laden
rimes riches
rimes suffisantes
riming stool
rince pichon
rind disease
rind fungus
rind gall
rind grafting
ring a bell
ring armature
ring armor
ring around the moon
ring around the sun
ring back
ring bander
ring binder
ring bore
ring bottle
ring canal
ring cell
ring changes
ring chuck
ring circuit
ring clew
ring compound
ring crib
ring dial
ring dollar
ring doorbells
ring down the curtain
ring down the curtain on
ring dropper
ring dropping
ring false
ring fence
ring finger
ring formation
ring formula
ring frame
ring gage
ring gauge
ring gear
ring in
ring in the ear
ring in the ears
ring machine
ring main
ring man
ring micrometer
ring nebula
ring necrosis
ring of the nibelung
ring off
ring oiler
ring on the air
ring out
ring ouzel
ring peals
ring pin
ring road
ring rope
ring rot
ring screw
ring seizing
ring shake
ring shout
ring snake
ring spinner
ring spinning
ring spot
ring stone
ring taw
ring the bell
ring the changes
ring the tocsin
ring traveler
ring true
ring up
ring up the curtain
ring winding
ring with the praises of
ring your praises
ring-a-lievio
ring-a-rosy
ring-adorned
ring-around
ring-banded
ring-bark
ring-billed
ring-billed duck
ring-billed gull
ring-bone
ring-bored
ring-bound
ring-chain isomerism
ring-chain tautomerism
ring-dove
ring-dyke
ring-eyed
ring-fence
ring-finger
ring-formed
ring-handled
ring-in
ring-legged
ring-man
ring-neck
ring-necked
ring-necked duck
ring-necked pheasant
ring-off
ring-oil
ring-porous
ring-ridden
ring-shaped
ring-shout
ring-small
ring-spinning frame
ring-straked
ring-streaked
ring-tailed
ring-tailed cat
ring-up
ripe stump
ripe wisdom
ripe-aged
ripe-bending
ripe-cheeked
ripe-colored
ripe-eared
ripe-faced
ripe-grown
ripe-looking
ripe-picked
ripe-red
ripe-tongued
ripe-witted
ripen into
riper years
ripper act
ripping bar
ripping chisel
ripping iron
ripping out
ripping panel
ripping punch
ripping size
ripple cloth
ripple current
ripple effect
ripple grass
ripple mark
ripple of applause
ripple of laughter
ripple plantain
ripple voltage
ripple weld
ripple-grass
rippling kame
ris de veau
rise above
rise again
rise against
rise and fall
rise and shine
rise from
rise from the grave
rise in the mind
rise in the world
rise of bottom
rise of floor
rise of the tide
rise on in the world
rise on the hind legs
rise to
rise to a point of order
rise to mind
rise to the fly
rise to the occasion
rise up
rise up in arms
risen from the ranks
rising action
rising diphthong
rising floor
rising generation
rising ground
rising hinge
rising line
rising market
rising of the curtain
rising prices
rising rhythm
rising terminal
rising trot
rising vote
risk assuming
risk capital
risk premium
risk stating
risk your life
risus sardonicus
rite de passage
rite of confession
rite of intensification
rite of passage
ritual contamination
ritual impurity
ritual killing
ritual murder
ritual observance
ritual suicide
ritual uncleanness
ritualistic article
ritualistic book
ritualistic manual
ritually clean
ritually contaminated
ritually immerse
ritually impure
ritually pure
ritually unclean
ritz it
rivage green
river ash
river bank
river basin
river bass
river bed
river birch
river boulder
river bulrush
river carpsucker
river craft
river deer
river dolphin
river driver
river front
river grass
river gunboat
river horse
river jack
river lamprey
river locust
river maple
river mussel
river novel
river oak
river of Hades
river of death
river of oblivion
river pilot
river rat
river road
river shrew
river sunflower
river wattle
river-blanced
river-borne
river-bottom
river-caught
river-drift
river-fish
river-formed
river-given
river-god
river-goddess
river-horse
river-sundered
river-water
river-watered
river-worn
riverbank grape
rivet buster
rivet carrier
rivet catcher
rivet forge
rivet heater
rivet hole
rivet in the memory
rivet knob
rivet pitch
rivet set
rivet snap
rivet steel
rivet the eyes upon
rivet the mind on
rivet the thoughts on
rivet weld
rivet wheat
rivet your attention
riveting hammer
riveting knob
riveting stake
riving knife
riving machine
rix-dollar
rk-up
roach back
roach paste
roach powder
roach-back
roach-backed
roach-bellied
roach-bent
road agent
road binder
road book
road builder
road building
road cart
road compound
road contractor
road donkey
road drag
roar like a bull
roar of laughter
roar up
roar with laughter
roaring drunk
roaring fire
roaring forties
roaring mad
roaring success
roaring trade
roast beef
roast meat
roast sintering
roast-beef plant
roasting ear
roasting hot
roasting jack
rob Peter to pay Paul
rob roy
rob the cradle
rob you of ease
rob you of rest
rob you of sleep
rob you of your illusions
robbed of
robbed of illusion
robber bee
robber crab
robber fly
robber frog
robbers' roost
robbery insurance
robe de chambre
robe of royalty
robe of state
robe-de-chambre
robes-de-chambre
robin accentor
robin chat
robin dipper
robin goodfellow
robin hood
robin redbreast
robin runaway
robin sandpiper
robin snipe
robin's-egg blue
robing room
robinson crusoe
robot bomb
robot control
robot factory
robot pilot
robot plane
robot satellite
robot specialist
robot submarine
robot system
robot-control
robust health
roche alum
roche lime
roche moutonn
roche moutonnee
rochelle powders
rochelle salt
roching cask
rock 'n' roll
rock alyssum
rock and roll
rock and rye
rock barnacle
rock basin
rock bass
rock beauty
rock blenny
rock bottom
rock brake
rock breaker
rock burst
rock cake
rock candy
rock climber
rock cod
rock cornish
rock crab
rock cress
rock crusher
rock crystal
rock cycle
rock dove
rock drill
rock driller
rock eel
rock elm
rock face
rock fern
rock festival
rock flint
rock flour
rock flower
rock garden
rock gardener
rock gardening
rock glacier
rock goat
rock goldenrod
rock grouse
rock gunnel
rock gypsum
rock hind
rock hole
rock hopper
rock hopping
rock hound
rock hyrax
rock jasmine
rock lever
rock lily
rock lobster
rock maple
rock melon
rock milk
rock moss
rock music
rock oak
rock oil
rock oyster
rock painting
rock phosphate
rock pigeon
rock pile
rock plant
rock pressure
rock rabbit
rock salmon
rock salt
rock samphire
rock saw
rock saxifrage
rock seal
rock shelter
rock singer
rock snake
rock sparrow
rock spleenwort
rock spray
rock squirrel
rock the boat
rock the sky
rock thrush
rock to sleep
rock tripe
rock trout
rock violet
rock vole
rock wallaby
rock whiting
rock wool
rock wren
rock'n roll
rock-'n'-roll
rock-and-roll
rock-and-roll group
rock-and-roll singer
rock-based
rock-basin
rock-battering
rock-bed
rock-begirdled
rock-bestudded
rock-bethreatened
rock-boring
rock-bottom
rock-bottom prices
rock-bound
rock-breaking
rock-built
rock-cistus
rock-clad
rock-cleft
rock-climb
rock-climber
rock-climbing
rock-concealed
rock-covered
rock-crested
rock-crushing
rock-cut
rock-dragging
rock-dusted
rock-dwelling
rock-worked
rockbound coast
rocker arm
rocker bent
rocker cam
rocker panel
rocket airplane
rocket and missile names
rocket apparatus
rocket assist
rocket boat
rocket bomb
rocket car
rocket engine
rocket engineer
rocket engineering
rocket exhaust
rocket fire
rocket firing
rocket fuel
rocket glider
rocket gun
rocket harpoon
rocket laboratory
rocket larkspur
rocket launcher
rocket launching
rocket man
rocket motor
rocket pilot
rocket plane
rocket power
rocket program
rocket project
rocket propulsion
rocket research
rocket salad
rocket science
rocket scientist
rocket ship
rocket sled
rocket society
rocket technician
rocket technology
rocket testing
rocket to the moon
rocket torpedo
rocket-borne
rocket-firing plane
rocket-propelled
rocketing up
rocking bed
rocking chair
rocking horse
rocking rhythm
rocking stone
rocking valve
rocks ahead
rockweed bird
rocky mountain sheep
rocky mountain spotted fever
rod adaptation
rod and reel
rod bayonet
rod bolt
rod breaker
rod epithelium
rod fiber
rod granule
rod mill
rod of empire
rod of office
rod peeler
rod rigging
rod vision
rod-bending
rod-boring
rod-caught
rod-cone theory
rod-drawing
rod-healing
rod-pointing
rod-polishing
rod-shaped
rodded joint
rode goose
rodent operative
rodent ulcer
roe deer
roe-deer
roebuck berry
roentgen equivalent man
roentgen ray
roentgen ray therapy
roentgen-ray cancer
roentgeno-
rogation day
roger de coverley
rogue elephant
rogue's badge
rogue's march
rogue's yarn
rogues' gallery
rohr flute
roister-doister
roister-doisterly
role-player
role-playing
roll about
roll and fillet molding
roll around
roll back
roll call
roll cloud
roll film
roll flat
roll in
roll in the dust
roll in the lap of luxury
roll in wealth
roll into one
roll lathe
roll logs
roll of coins
roll of honour
roll of the dead
roll of the wheel
roll on
roll on the ground
roll on the tongue
roll out
roll over
roll over and play dead
roll scale
roll the stone of Sisyphus
roll top
roll train
roll under the tongue
roll up
roll up into a ball
roll up your sleeves
roll welding
roll with the punches
roll-about
roll-away bed
roll-call
roll-collar
roll-cumulus
roll-leaf
roll-on/roll-off
roll-out
roll-over
roll-top
roll-top desk
roll-turning lathe
rolled flat
rolled glass
rolled gold
rolled into one
rolled oats
rolled roast
rolled-steel joist
roller bandage
roller bar
roller bearing
roller blind
roller bowl
roller chain
roller chock
roller coaster
roller dam
roller derby
roller fairlead
roller gate
roller gear
roller gin
roller grinder
roller jewel
roller mill
roller nest
roller press
roller shade
roller skate
roller skater
roller skates
roller skating
roller stock
roller towel
roller-backer
roller-blind shutter
roller-carrying
roller-grinding
roller-made
geroller-milled
geroller-milling
geroller-reefing gear
geroller-skate
geroller-skated
geroller-skating
geroller-top
rolling barrage
rolling bunt
rolling chock
rolling country
rolling crest dam
rolling fire
rolling friction
rolling hitch
rolling hitches
rolling in money
rolling in wealth
rolling kitchen
rolling machine
rolling mill
rolling on
rolling pin
rolling press
rolling rope
rolling stock
rolling stone
rolling-contact bearing
rolling-element bearing
rolling-key clutch
rolling-mill
rolling-pin
rolling-press
rolltop desk
roly-polines
roly-poly
roly-poly grass
romaine lettuce
roman a clef
roman architecture
roman calendar
roman candle
roman catholic
roman collar
roman numeral
roman-fleuve
romance stanza
roof iris
roof line
roof nucleus
roof over
roof over your head
roof plate
roof prism
roof rack
roof rat
roof ridge
roof thatch
roof tile
roof truss
roof-blockaded
roof-building
roof-climbing
roof-deck
roof-draining
roof-dwelling
roof-gardening
roof-haunting
roof-reaching
roof-shaped
roof-tree
roofed-in
roofed-over
roofing nail
roofing paper
roofing tile
rook-coated
rookety-coo
room and board
room clerk
room decoration
room decorator
room divider
room service
room temperature
room to spare
room to swing a cat
room trader
room-and-pillar
room-mate
room-ridden
room-temperature
rooming house
roost cock
roosting place
root and branch
root beer
root beer float
root borer
root canal
root canal therapy
root canal treatment
root cap
root cell
root cellar
root chord
root climber
root crop
root cutting
root determinative
root disease
root division
root field
root for
root gall
root graft
root grafting
root hair
root in
root knot
root mean square
root nodule
root of all evil
root on
root out
root parasite
root position
root pressure
root rot
root sheath
root test
root tip
root up
root vole
root weevil
root-bound
root-bruising
root-built
root-devouring
root-digging
root-eating
root-feeding
root-hardy
rose lily
rose madder
rose mallow
rose metal
rose mildew
rose milkweed
rose moss
rose noble
rose of China
rose of Heaven
rose of Jericho
rose of Sharon
rose of jericho
rose of sharon
rose oil
rose opal
rose pink
rose point
rose purple
rose quartz
rose rial
rose slug
rose stitch
rose tickseed
rose water
rose weevil
rose willow
rose window
rose wine
rose worm
rose-a-ruby
rose-apple
rose-back
rose-bay
rose-bellied
rose-blue
rose-breasted
rose-breasted grosbeak
rose-bright
rose-bush
rose-campion
rose-carved
rose-chafer
rose-cheeked
rose-clad
rose-clad
rose-colored
rose-colored glasses
rose-colored spectacles
rose-colorist
rose-colour
rose-coloured
rose-combed
rose-covered
rose-crowned
rose-cut
rose-diamond
rose-diffusing
rose-drop
rose-eared
rose-engine
rose-ensanguined
rose-faced
rose-fingered
rose-flowered
rose-fresh
rose-gathering
rose-geranium oil
rose-growing
rose-headed
rose-hedged
rose-hued
rose-leaf
rose-leaved
rose-lipped
rose-lit
rose-loving
rose-nail
rose-petty
rose-pink
rose-podded
rose-red
rose-ringed
rose-root
rose-scented
rose-shell reamer
rose-slug
rose-sweet
rose-tinged
rose-tinted
rose-tree
rose-warm
rose-water
rose-window
rose-wreathed
rosemary oil
rotary hoe
rotary photogravure
rotary plough
rotary plow
rotary press
rotary pump
rotary shutter
rotary storm
rotary tiller
rotary wing
rotary-beam antenna
rotary-cut
rotary-piston engine
rotary-wing aircraft
rotating prism
rotating spit
rotation axis
rotation band
rotation of axes
rotation pool
rotation-inversion axis
rotational motion
rote learning
rote memory
rote song
rother nail
roto section
rotogravure press
rotor cloud
rotor motor
rotor plane
rotor ship
rott goose
rotten at
rotten at the core
rotten borough
rotten break
rotten egg
rotten humor
rotten ice
rotten luck
rotten row
rotten smell
rotten stop
rotten to the core
rotten-dry
rotten-egg
rotten-hearted
rotten-heartedly
rotten-heartedness
rotten-minded
rotten-planked
rotten-red
rotten-rich
rotten-ripe
rotten-stone
rotten-throated
rotten-timbered
rotundi-
rotundo-
rotundo-ovate
rouge et noir
rouge plant
rough air
rough bent
rough bluegrass
rough breathing
rough cast
rough copy
rough corners
rough diamond
rough draft
rough edges
rough fish
rough go
rough guess
rough in
rough it
rough leaf
rough loader
rough log
rough measure
rough out
rough outline
rough passage
rough puff pastry
rough sea
rough sketch
rough spot
rough stuff
rough surface
rough trade
rough turner
rough up
rough usage
rough water
rough weather
rough wine
rough woodbine
rough-and-readiness
rough-and-ready
rough-and-tumble
rough-backed
rough-barked
rough-bearded
rough-bedded
rough-billed
rough-blustering
rough-board
rough-bordered
rough-cast
rough-cheeked
rough-clad
rough-clanking
rough-coat
rough-coated
rough-cut
rough-draw
rough-dried
rough-dry
rough-drying
rough-edge
rough-edged
rough-enter
rough-face
rough-faced
rough-feathered
rough-finned
rough-foliaged
rough-footed
rough-form
rough-fruitied
rough-furrowed
rough-grained
rough-grind
rough-grinder
rough-grown
rough-hackle
rough-hackled
rough-hairied
rough-handed
rough-handedness
rough-headed
rough-hew
rough-hew them how we will
rough-hewed
rough-hewing
rough-hewn
rough-hob
rough-hobbed
rough-hull
rough-jacketed
rough-keeled
rough-leaved
rough-legged
rough-legged buzzard
rough-legged hawk
rough-level
rough-lipped
rough-living
rough-looking
rough-mannered
rough-necked
rough-paved
rough-plain
rough-plane
rough-plastered
rough-plow
rough-plumed
rough-podded
rough-point
rough-ream
rough-reddened
rough-rider
rough-ridged
rough-roll
rough-sawn
rough-scaled
rough-seeded
rough-shape
rough-sketch
rough-skinned
rough-spirited
rough-spoken
rough-square
rough-stalked
rough-stemmed
rough-stone
rough-stringed
rough-surfaced
rough-swelling
rough-tailed
rough-tanned
rough-tasted
rough-textured
rough-thicketed
rough-toned
rough-tongued
rough-toothed
rough-tree
rough-tree rail
rough-turn
rough-turned
rough-voiced
rough-walled
rough-weather
rough-winged
rough-winged swallow
rough-write
rougher-down
rougher-out
rougher-up
roughing mill
roughing roll
roughing stone
roughing-in
roughly speaking
roulette table
roulette wheel
round a bend
round a corner
round a point
round about
round and round
round angle
round arch
round as a ball
round clam
round dance
round dancing
round down
round hand
round heart
round herring
round in
round kumquat
round lot
round number
round of applause
round of beef
round of drinks
round of pleasure
round of pleasures
round of visits
round off
round on
round out
round pace
round robin
round scale
round seizing
round shot
round steak
round sum
round table
round the bend
round the clock
round to
round top
round tower
round trade
round transaction
round trip
round turn
round turn and half hitch
round turn in the hawse
round up
round whitefish
round window
round-about-face
round-arch
round-arched
round-arm
round-arm blow
round-armed
round-backed
round-barreled
round-bellied
round-beset
round-billed
round-blazing
round-bodied
round-boned
round-bottomed
round-bowed
round-bowled
round-built
round-cell sarcoma
round-celled
round-cornered
round-crested
round-dancer
round-eared
round-edge
round-edged
round-end
round-eyed
round-faced
round-fenced
round-footed
round-fruitied
round-furrowed
round-hand
round-handied
round-headed
round-heart
round-hoofed
round-horned
round-house
round-leafed
round-leaved
round-leaved dogwood
round-limbed
round-lipped
round-lobed
round-made
round-mouthed
round-nosed
round-podded
round-pointed
round-ribbed
round-rolling
round-rooted
round-seeded
round-shapen
round-shouldered
round-shouldred
round-sided
round-skirted
round-spun
round-stalked
round-table
round-table conference
round-tailed
round-the-clock
round-toed
round-topped
round-trip
round-trip ticket
round-tripper
round-trussed
round-turning
round-up
round-visaged
round-winged
round-wombed
round-worm
roundabout chair
roundabout system
roundabout way
rounded out
rounded out
roundheaded apple tree borer
roundhouse curve
rounding adz
rounding off
rounding out
rounding-out
roundish-deltoid
roundish-faced
roundish-featured
roundish-leaved
roundish-ovate
roundish-oval
roundish-ovate
roundish-shaped
roundish-shaped
roundish-shaped
roundish-shaped
roundnose chisel
rouse out
rout cake
rout chair
rout out
rout seat
route army
route march
route marker
route nationale
route order
route step
route survey
router patch
router plane
routing plane
rove beetle
rove iron
rove punch
rove-beetle
rove-over
gerover ball
roving commission
roving iron
row away
row crop
row culture
row dry
row galley
row house
row of buttons
row of pins
row over
row vector
row-barge
row-boat
row-de-dow
row-dow-dow
row-off
row-port
rowan tree
rowan-tree
rowdy-dowdy
rowed of all
rowing boat
rowing crew
rowing machine
rowing port
rowlock arch
royal Canadian
royal antler
royal assent
royal authority
royal blue
royal coachman
royal colony
royal crown
royal duke
royal fern
royal fizz
royal flush
royal grant
royal icing
royal insignia
royal jelly
royal lily
royal marriage
rubber-reclaiming
rubber-set
rubber-slitting
rubber-soled
rubber-spreading
rubber-stamp
rubber-testing
rubber-tired
rubber-varnishing
rubber-yielding
rubberneck tour
rubbing alcohol
rubbing away
rubbing block
rubbing off
rubbing out
rubbing stone
rubbing varnish
rubbing-stone
rubbish bin
rubbish heap
rubbish unloader
rubble car
rubble masonry
rubble-work
rube faction
rube town
rubella vaccine
rubicon bezique
rubicon piquet
rubidium-strontium dating
ruby blende
ruby copper
ruby fly
ruby glass
ruby grass
ruby pin
ruby port
ruby red
ruby roller
ruby silver
ruby spaniel
ruby spinel
ruby sulphur
ruby wood
ruby zinc
ruby-berried
ruby-budded
ruby-circled
ruby-colored
ruby-crested
ruby-crowned
ruby-crowned kinglet
ruby-eyed
ruby-faced
ruby-headed
ruby-hued
ruby-lipped
ruby-lustered
ruby-necked
ruby-red
ruby-set
ruby-studded
ruby-throated
ruby-throated hummingbird
ruby-tinctured
ruby-tinted
ruby-toned
ruby-visaged
ruck up
rudder amidships
rudder angle
rudder band
rudder bar
rudder brake
rudder chain
rudder coat
rudder crosshead
rudder fish
rudder horn
rudder pedals
rudder pendant
rudder snug
rudder tackle
rudder torque
rudder-fish
ruddy duck
ruddy-bright
ruddy-brown
ruddy-cheeked
ruddy-colored
ruddy-complexioned
ruddy-faced
ruddy-gold
ruddy-hairied
ruddy-headed
ruddy-leaved
ruddy-purple
ruddy-spotted
rude awakening
rude health
rude justice
rude reproach
rude-carved
rude-ensculptured
rude-fanged
rude-fashioned
rude-featured
rude-growing
rude-hewn
rude-looking
rude-made
rude-mannered
rude-spoken
rude-spoken rude-spun
rude-spun
rude-thoughted
rude-tongued
rude-washed
rudge wash
rue anemone
rue bargain
rue fern
rue oil
rue spleenwort
rue the day
ruff-coat
ruff-necked
ruff-tree
ruffed grouse
ruffian-like
ruffle your feathers
ruffle-
ruffle-headed
ruffled feelings
ruffy-tuffy
rufi-
rufo-
rufous-backed
rufous-banded
rufous-bellied
rufous-billed
rufous-breasted
rufous-brown
rufous-buff
rufous-chinned
rufous-colored
rufous-crowned
rufous-edged
rufous-haired
rufous-headed
rufous-hooded
rufous-naped
rufous-necked
rufous-rumped
rufous-spotted
rufous-tailed
rufous-tinged
rufous-toed
rufous-vented
rufous-winged
rufous-yellow
rufter hood
rufter-hood
rufty-tufty
rug designer
rug gown
rug maker
rug-cutter
rug-cutting
rug-gowned
rugby league
rugby union
rugged health
rugged individualism
rugged individualist
rugosa rose
rugose-leaved
rugose-punctate
ruhmkorff coil
ruin agate
ruin marble
ruin-breathing
ruin-crowned
ruin-heaped
ruin-hurled
ruin-loving
rule against
rule by terror
rule joint
rule nisi
rule of action
rum truffle
rum-bred
rum-crazed
rum-drinking
rum-dum
rum-fired
rum-flavored
rum-hole
rum-mill
rum-nosed
rum-producing
rum-selling
rum-smelling
rumble seat
rumble-bumble
rumble-tumble
ruminate over
rummage out
rummage sale
rumored about
rump bone
rump roast
rump steak
rump-fed
rumpled feathers
rumpus room
run a chance
run a comparison
run a deficit
run a good chance
run a race
run a sample
run a specimen
run a temperature
run a tight ship
run a tilt
run a tilt at
run about
run abreast
run across
run afoul of
run after
run against
run aground
run along
run amok
run amuck
run an experiment
run around
run around with
run at
run at flank speed
run away
run away from
run away with
run back
run before
run before the wind
run before you can walk
run broadside on
run by
run circles around
run counter to
run down
run down the latitude
run down the wind
run dry
run end on
run for
run for it
run for office
run for your life
run for your money
run foul of
run from
run head and head
run head on
run in
run in couples
run in opposition to
run in pursuit of
run in the blood
run in the family
run in the head
run in with
run interference for
run into
run into a brick wall
run into a corner
run into danger
run into debt
run into money
run into port
run into the ground
run its course
run like a scared rabbit
run like mad
run low
run mad
run mad after
run neck and neck
run of luck
run of the cards
run of the mill
run of things
run off
run off at the mouth
run off with
run on
run on in a groove
run on like a mill race
run on the rocks
run out
run out a rope
run out a warp
run out of
run out of patience
run out of steam
run out of time
run out of town
run out on
run over
run parallel
run parallel to
run prow on
run ragged
run rings around
run riot
run scared
run short
run short of
run smack into
run smoothly
run the chance
run the eye over
run the eye through
run the fingers over
run the gauntlet
run the hazard
run the risk
run the show
run through
run to
run to earth
run to seed
run to waste
run together
run true to form
run true to type
run under bare poles
run up
run up a bill
run up a score
run up against
run up an account
run upon
run upon a bank
run wide open
run wild
run with
run with the pack
run with the wind
run with the wind quartering
run you hard
run your eye over
run your head against
run-about
run-around
run-down
run-down neighborhood
run-in
run-of-mill
run-of-mine
run-of-paper
run-of-the-mill
run-of-the-mine
run-on
run-on sentence
run-out
run-over
run-through
run-up
runaround, the
runaway ship
runaway shop
runaway victory
runcible spoon
rune-bearing
rune-inscribed
rune-staff
rune-stave
rune-stone
rung of the ladder
runic alphabet
runic character
runic symbol
runic verse
runner and tackle
runner bean
runner foot
runner peanut
runner stick
runner tackle
runner-up
runners-up
running English
running account
running away
running board
running bond
running bowline
running bowsprit
running broad jump
running commentary
running dive
running dog
running down
running engagement
running fight
running fire
running fit
running for office
running free
running gaff
running gate
running gear
running hand
running head
running high jump
running in
running in the blood
running in the race
running in the strain
running jump
running knot
running light
running livestock
running mad
running martingale
running mate
rush candle
rush daffodil
rush garlic
rush grass
rush hour
rush in
rush into
rush light
rush lily
rush marsh grass
rush of emotion
rush off
rush order
rush ring
rush through
rush to the assistance of
rush up on one
rush up on you
rush wheat
rush-bearer
rush-bearing
rush-bordered
rush-bottomed
rush-candle
rush-floored
rush-fringed
rush-girt
rush-grown
rush-hour
rush-leaved
rush-like
rush-margined
rush-ring
rush-seated
rush-stemmed
rush-strewn
rush-wove
rush-woven
russel cord
russell's viper
russet coat
russet-backed
russet-bearded
russet-brown
russet-coated
russet-colored
russet-golden
russet-green
russet-pated
russet-robbed
russet-roofed
russia leather
russian blue
russian olive
russian thistle
russian wolfhound
russo-
rust brown
rust bucket
rust cement
rust coat
rust fungus
rust joint
rust mite
rust of antiquity
rust together
rust-cankered
rust-colored
rust-complexioned
rust-eaten
rust-preventing
rust-proofed
rust-red
rust-removing
rust-resisting
rust-stained
rust-worn
rust-yellow
rustic region
rustic style
rustic work
rustle up
rusts smuts
rusty black
rusty blackbird
rusty dab
rusty gum
rusty-branched
rusty-brown
rusty-coated
rusty-collared
rusty-colored
rusty-crowned
rusty-dusty
rusty-fusty
rusty-leaved
rusted-looking
rusty-red
rusty-rested
rusty-spotted
rusty-throated
ruthenium oxide
ruthenium red
rutherford atom
rye bread
rye grass
rye rust
rye smut
rye whiskey
rye whisky
rye-bread
rye-brome
rye-grass
s ap
s os
s t
s'il vous pla
s'il vous plait
sa sa
sab-cat
sabai grass
sabbath school
sabbath-day
sabbatical leave
sabbatical year
saber bean
saber fish
saber knot
saber rattling
saber shin
saber-legged
saber-rattling
saber-shaped
saber-toothed
saber-toothed cat
saber-toothed tiger
sabicu wood
sable antelope
sable iron
sable night
sable-bordered
sable-cinctured
sable-cloaked
sable-colored
sable-hooded
sable-lettered
sable-robbed
sable-spotted
sable-stoled
sable-suited
sable-vested
sable-vested Night
sable-visaged
sabre-toothed tiger
sac de nuit
sac fungus
sac-a-lait
sac-wrist
sacchar-
saccharic acid
saccharifying enzyme
saccharin insoluble
saccharin sodium
saccharine sorghum
saccharo-
saccharolactic acid
sacer vates
sachet powder
sack baler
sack baling
sack beater
sack borer
sack carrier
sack checker
sack cleaner
sack cloud
sack coal
sack coat
sack collector
sack cutter
sack doubler
sack dress
sack duty
sack elevator
sack emptier
sack examiner
sack hand
sack hoist
sack holder
sack lifter
sack machinist
sack maker
sack mender
sack moth
sack out
sack packer
sack printer
sack race
sack racer
sack racing
sack repairer
sack running
sack searcher
sack sewer
sack shaker
sack shoot
sack sorter
sack store
sack suit
sack superintendent
sack tackle
sack the
sack time
sack tree
sack up
sack weight
sack-bearer
sack-coated
sack-formed
sack-sailed
sack-shaped
sack-winged
sackcloth and ashes
sacking needle
sac-
sacra peregrina
sacrament chapel
sacrament cloth
sacrament house
sacrament of matrimony
sacramental anointment
sacramental offering
sacramental wine
sacred Nine
sacred anchor
sacred article
sacred baboon
sacred bamboo
sacred calling
sacred canon
sacred cow
sacred ibis
sacred lotus
sacred mushroom
sacred music
sacred orders
sacred quality
sacred relics
sacred thread
sacred unction
sacred writings
sacred, the
sacred-bean family
sacrifice bunt
sacrifice fly
sacrifice hit
sacrifice yourself for
sacrificial anode
sacring bell
sacring-bell
sacro-
sacro-uterine
sad cake
sad case
sad disappointment
sad of heart
sad person
sad sack
sad sack of shit
sad times
sad tree
sad work
sad-a-vised
sad-colored
sad-eyed
sad-faced
sad-iron
sad-looking
sad-natured
sad-paced
sad-seeming
sad-tuned
sad-voiced
saddle band
saddle bar
saddle blanket
saddle block
saddle boiler
saddle bracket
saddle carpenter
saddle case
saddle chimes
saddle clip
saddle crutch
saddle currier
saddle cutter
saddle feathers
saddle fitter
saddle flange
saddle flap
saddle fungus
saddle gall
saddle girth
saddle glacier
saddle grafting
saddle gun
saddle hackle
saddle hand
saddle hip
saddle horn
saddle horse
saddle house
saddle hub
saddle iron
saddle joint
saddle key
saddle lap
saddle lashing
saddle leather
saddle maker
saddle making
saddle mat
saddle nail
saddle of mutton
saddle on
saddle ox
saddle oxford
saddle oyster
saddle pad
saddle pile
saddle piling
saddle pin
saddle pistol
saddle plant
saddle plate
saddle pocket
saddle point
saddle pommel
saddle press
saddle rack
saddle reef
saddle rock
saddle roof
saddle room
saddle rug
saddle seam
saddle seamer
saddle seat
saddle shell
saddle shoe
saddle skirt
saddle soap
saddle sore
saddle spot
saddle spring
saddle staple
saddle stirrup
saddle stitch
saddle stitcher
saddle stitching
saddle stone
saddle strap
saddle tank
saddle trunk
saddle upon
saddle wire stitch
saddle wiring
saddle with
saddle withers
saddle worker
saddle-backed
saddle-bag
saddle-billed
saddle-bow
saddle-check chair
saddle-cloth
saddle-fast
saddle-galled
saddle-girt
saddle-graft
saddle-nosed
saddle-shaped
saddle-sore
saddle-spotted
saddle-stitch
saddle-tree
saddle-wired
saddleback roof
saddleback stitch
sadist torturer
sadistic cruelty
saeva indignatio
safari ant
safari jacket
safari park
safari suit
safe and sound
safe builder
safe district
safe edge
safe finisher
safe fitter
safe hands
safe haven
safe lifter
safe lock
safe maker
safe painter
safe period
safe stuffer
safe-bestowed
safe-blower
safe-borne
safe-breaker
safe-conduct
safe-cracker
safe-deposit
safe-deposit box
safe-deposit vault
safe-edge file
safe-hidden
safe-hold
safe-keeping
safe-marching
safe-moored
safe-sequestered
safe-time
safeguarding duty
safety arch
safety belt
safety bicycle
safety bolt
safety buoy
safety cage
safety car
safety catch
safety chain
safety clause
safety control
safety curtain
safety disk
safety dog
safety edge
safety equipment
safety explosive
safety factor
safety film
safety first
safety funnel tube
safety fuse
safety fuze
safety glass
safety hanger
safety hoist
safety hook
safety island
safety isle
safety lamp
safety lift
safety link
safety lintel
safety lock
safety loop
safety man
safety match
safety nut
safety paper
safety pin
safety pinion
safety plug
safety rail
safety razor
safety roller
safety setscrew
safety shoes
safety spring
safety squeeze
safety squeeze play
safety stop
safety switch
safety switchboard
safety tire
safety tube
safety valve
safety wire
safety zone
safety-deposit
safety-deposit box
safety-deposit vault
safety-fund system
safety-pin
safety-valve
safflower carmine
safflower oil
safflower red
saffron cake
saffron cordial
saffron crocus
saffron gatherer
saffron kiln
saffron oil
saffron plum
saffron robe
saffron thistle
saffron veil
saffron yellow
saffron-colored
saffron-hued
saffron-yellow
safrano pink
sag rod
sag to leeward
saga novel
sage Derby
sage ale
sage apple
sage brush green
sage cheese
sage chippy
sage cock
sage green
sage grouse
sage hare
sage hen
sage mullein
sage oil
sage rabbit
sage sparrow
sail hoop
sail in the teeth of the wind
sail in the wind's eye
sail into
sail into the wind's eye
sail keeper
sail lizard
sail loft
sail model
sail near the wind
sail needle
sail netting
sail off the wind
sail on the wind
sail packet
sail part
sail plan
sail pulley
sail room
sail rope
sail round
sail sewer
sail sewing
sail the ocean blue
sail the sea
sail thimble
sail thread
sail to the windward of
sail to windward
sail too close to the wind
sail too near the wind
sail trimmer
sail twine
sail under false colors
sail with the wind
sail with the wind aft
sail with the wind quartering
sail yard
sail-bearing
sail-borne
sail-broad
sail-carrying
sail-dotted
sail-filling
sail-over
sail-propelled
sail-stretched
sail-winged
sailfin sculpin
sailing aid
sailing auxiliary
sailing barge
sailing boat
sailing canoe
sailing car
sailing cruiser
sailing day
sailing dinghy
sailing instructions
sailing launch
sailing master
sailing match
sailing orders
sailing packet
sailing ship
sailing sucker
sailing trawler
sailing trim
sailing vessel
sailing vessels
sailing yacht
sailmaker's needle
sailmaker's palm
sailor blue
sailor boy
sailor cap
sailor fish
sailor gang
sailor hat
sailor helmsman
sailor laborer
sailor lad
sailor phrase
sailor plant
sailor suit
sailor tie
sailor's breastplate
sailor's choice
sailor's knot
sailor's-choice
sailor-fashion
sailor-fisherman
sailor-looking
sailor-mind
sailor-poet
sailor-soul
salle d'attente
salle de danse
sallee-man
sallow-cheeked
sallow-colored
sallow-complexioned
sallow-faced
sallow-looking
sallow-visaged
sally forth
sally lunn
sally picker
sally port
salmon brick
salmon cloud
salmon color
salmon disease
salmon family
salmon fisher
salmon fisherman
salmon fishery
salmon fishing
salmon fly
salmon hatchery
salmon herring
salmon ladder
salmon loaf
salmon oil
salmon peal
salmon pink
salmon river
salmon rod
salmon smelt
salmon spear
salmon spearing
salmon steak
salmon tail
salmon trout
salmon wheel
salmon-breeding
salmon-colored
salmon-haunted
salmon-pink
salmon-rearing
salmon-red
salmon-tinted
salmon-trout
salon de beaute
salon music
saloon bar
saloon car
saloon carriage
saloon deck
saloon keeper
saloon pistol
salping-
salpingo-
salpingo-oophorectomy
salpingo-oophoritis
salpingo-ovariotomy
salpingo-ovaritis
salpingo-ureterostomy
salt a mine
salt acid
salt and pepper beard
salt and pepper hair
salt away
salt barrel
salt bed
salt beef
salt block
salt bottom
salt box
salt brig
salt cake
salt cedar
salt chrome
salt coffer
salt conveyer
salt crusher
salt crystal
salt dome
salt down
salt drawer
salt dryer
salt duty
salt eel
salt elevator
salt evaporator
salt filler
salt filter
salt fireman
salt firm
salt fish
salt flat
salt furnace
salt garden
salt gauge
salt glaze
salt glazing
salt grainer
salt grape
salt grass
salt grinder
salt hay
salt heaver
salt holder
salt horse
salt in the wound
salt junk
salt kettle
salt lake
salt lick
salt loader
salt lump
salt maker
salt marsh
salt master
salt millman
salt mine
salt miner
salt of phosphorus
salt of sorrel
salt of the earth
salt out
salt pack
salt pan
salt pansmith
salt pit
salt plug
salt pocket
salt pond
salt pork
salt prairie
salt press
salt rammer
salt reed grass
salt refiner
salt rheum
salt room
salt screen
salt sea
salt seller
salt shaker
salt shop
salt shovel
salt soda
salt something away
salt spoon
salt spring
salt stain
salt stick
salt tax
salt tree
salt trimmer
salt trough
salt vase
salt washer
salt water
salt well
salt yard
salt-and-pepper
salt-box
salt-box house
salt-cat
salt-cellar
salt-cured
salt-edged
salt-free diet
salt-glazed
salt-glazed ware
salt-green
salt-hard
salt-incrusted
salt-laden
salt-loving
salt-marsh aster
salt-marsh caterpillar
salt-marsh fleabane
salt-marsh gerardia
salt-marsh goldenrod
salt-marsh grass
salt-marsh hen
salt-marsh mosquito
salt-marsh moth
salt-marsh terrapin
salt-meadow grass
salt-pan
salt-rheum weed
salt-rising
salt-rising bread
salt-spilling
salt-watery
salt-white
salted peanuts
salting bath
salting box
salting house
salting kit
salting pan
salting press
salting room
salting trough
salting tub
salt peter paper
salt peter rot
salt water sailor
salt water taffy
saltwort family
salus populi supra lex esto
salutatory address
salute with
saluto dor
saluto doro
salvage corps
salvage man
salvation army
salve bug
salve mull
salver-shaped
salvia blue
salvinia family
salvo point
sam browne
sam browne belt
sam sodden
samadera bark
same but different
same here
same mind
same old story
same, the
same-colored
same-featured
same-minded
same-seeming
same-sounding
same-sounding
sample ballot
sample book
sample bottle
sample box
sample boy
sample cabinet
sample card
sample carrier
sample case
sample catcher
sample cutter
sample drawer
sample driller
sample envelope
sample holder
sample maker
sample making
sample ore
sample passer
sample phial
sample picker
sample point
sample porter
sample roll
sample room
sample space
sample tester
sample trunk
sample vial
sampling inspection
sampling shovel
samson post
samson's post
san benito
san jacinto day
san jose scale
san-gaku
sancho panza
sancho pedro
sancte bell
sanctimonious fraud
sanction mark
sanctioned behavior
sanctioned conduct
sanctuary knocker
sanctuary ring
sanctum sanctorum
sanctus bell
sanctus turret
sand anchor
sand badger
sand bar
sand bath
sand bear
sand bellows
sand belt
sand binder
sand bird
sand blackberry
sand blaster
sand blindness
sand block
sand blower
sand bluestem
sand boil
sand brier
sand buffer
sand bug
sand bunker
sand burner
sand calciner
sand car
sand caster
sand casting
sand castle
sand cherry
sand chute
sand clam
sand clock
sand cloth
sand clover
sand cock
sand collar
sand column
sand cone
sand conveyer
sand corn
sand crab
sand crack
sand crater
sand cricket
sand cusk
sand dab
sand darter
sand digger
sand disease
sand diver
sand dollar
sand dredge
sand dropseed
sand drown
sand dune
sand eel
sand finish
sand flag
sand flask
sand flat
sand flea
sand flotation
sand flounder
sand fluke
sand fly
sand fox
sand gall
sand grape
sand grass
sand grouse
sand hill
sand hog
sand hoist
sand hole
sand hopper
sand hornet
sand in the eyes
sand jack
sand jet
sand lance
sand lark
sand launce
sand leek
sand lily
sand line
sand lizard
sand lob
sand lotter
sand martin
sand mason
sand mist
sand mixer
sand mold
sand molding
sand mole
sand monitor
sand mouse
sand mullet
sand myrtle
sand nettle
sand oat
sand pail
sand painter
sand painting
sand partridge
sand pear
sand phlox
sand pig
sand pigeon
sand pike
sand pile
sand pillar
sand pine
sand pipe
sand pit
sand plain
sand plover
sand plum
sand prey
sand pride
sand pump
sand rat
sand reed
sand reef
sand reel
sand rocket
sand roll
sand roller
sand runner
sand saucer
sand scoop
sand screw
sand sedge
sand shark
sand shell
sand shoe
sand skink
sand skipper
sand smelt
sand snake
sand snipe
sand spout
sand spurry
sand squeteague
sand star
sand stargazer
sand strake
sand sucker
sand swallow
sand table
sand tester
sand tiger
sand trap
sand trout
sand tube
sand verbena
sand vetch
sand vine
sand violet
sand viper
sand walk
sand wasp
sand whiting
sand widgeon
sand yacht
sand-bag
sand-bar willow
sand-belt machine
sand-blight
sand-blind
sand-blindness
sand-blown
sand-bottomed
sand-box
sand-built
sand-buried
sand-burned
sand-cast
sand-cloth
sand-colored
sand-etched
sand-faced
sand-finished
sand-float finish
sand-floated
sand-fly bush
sand-fly fever
sand-glass
sand-groper
sand-hemmed
sand-hill
sand-hill bloom
sand-hill crane
sand-hill rose
sand-hill rosemary
sang de bouf
sang-de-boeuf
sang-dragon
sang-froid
sanga-sanga
sanguinary ant
sanguine expectation
sanguine humor
sanguine-complexioned
sanitary belt
sanitary cordon
sanitary engineer
sanitary engineering
sanitary napkin
sanitary towel
sanitation-proof
sans appel
sans ceremonie
sans doute
sans facon
sans pareil
sans peur et sans reproche
sans reproche
sans serif
sans souci
sans-culotte
sans-culotterie
sans-culottic
sans-culottid
sans-culottide
sans-culottides
sans-culottish
sans-culottism
sans-culottist
sans-culottize
sans-serif
sant tree
santa claus
santa gertrudis
santal oil
santalwood oil
sanwa millet
sap cavity
sap chafer
sap fagot
sap flow
sap green
sap gum
sap pine
sap roller
sap rot
sap shield
sap stain
sap the foundations
sap the foundations of
sap the strength of
sap tree
sap tube
sap-green
sap-wood
sapele mahogany
saphenous vein
sapling cup
sapodilla family
sapodilla plum
saponification number
saponification value
sapota gum
sapper and miner
sapphire blue
sapphire-blue
sapphire-colored
sapphire-hued
sapphire-visaged
sappy spot
sap-
sapro-
sapta-matri
sapucaia nut
sapucaia-nut family
sapwood rot
saratoga trunk
sarc-
sarco-
sarcoptic mange
sardine box
sardine can
sardine factory
sardine fishery
sardine oil
sardine shears
sardine tongs
sardonic grin
sargasso weed
sargassum crab
sargassum fish
sargassum pipefish
sargassum shell
sarsen stone
saru-gaku
sarus crane
sash bar
sash chain
sash cord
sash curtain
sash fast
sash fillister
sash holder
sash house
sash line
sash lock
sash maker
sash making
sash plane
sash pocket
sash ribbon
sash saw
sash ventilation
sash weight
sash window
sash-window
sashay along
sashay off
sassa gum
sassafras laurel
sassafras medulla
sassafras nut
sassafras oil
sassafras pith
sassafras tea
sassy bark
satan monkey
satanic cunning
satchel charge
satellite DNA
satellite relay
satellite sphinx
satellite status
satem language
satin bird
satin bowerbird
satin cloth
satin glass
satin grass
satin moth
satin sheeting
satin spar
satin sparrow
satin stitch
satin stone
satin sultan
satin walnut
satin weave
satin white
satin-backed
satin-faced
satin-finished
satin-flower
satin-leaved
satin-lidded
satin-lined
satin-shining
satin-smooth
satin-striped
satin-worked
satiric humor
satiric wit
satirical novel
satirical poetry
satisfaction piece
satisfactory amount
satisfy requirements
satisfy your obligations
satisfy yourself
satisfy yourself on that point
saturated fat
saturated liquid
saturated vapor
saturating oil
saturation bombing
saturation current
saturation curve
saturation factor
saturation level
saturation point
saturation pressure
saturation raid
saturnalia of blood
satyr butterfly
satyr orchid
satyr play
sauba ant
sauce boat
sauce espagnole
sauce-alone
sauce-boat
sauce-crayon
saucer dome
saucer eye
saucer eyes
saucer lake
saucer-eyed
saucer-shaped
sauna bath
saunce bell
saunders blue
sauro-
sausage balloon
sausage bassoon
sausage curl
sausage dog
sausage filler
sausage maker
sausage making
sausage meat
sausage poisoning
sausage roll
sausage tree
sausage turning
sausage-fingered
sausage-shaped
saussurite gabbro
saut de basque
sauter aux yeux
sauts de basque
sauna ant
sauve qui peut
sauve-qui-peut
sauvignon blanc
savage-featured
savage-fierce
savage-hearted
savage-looking
savage-spoken
savage-wild
savanna rhatany
savanna blackbird
savanna flower
savanna forest
savanna sparrow
savanna wattle
savanna woodland
savate expert
save and except
save as you earn
save face
save for a rainy day
save the necessity
save to fall back on
save to fall back upon
save up
save your bacon
save your breath
save your face
save your neck
save your skin
save yourself
save-all
saved by the bell
saved soul
savin oil
savin-leaved
saving clause
saving grace
saving your reverence
savings account
savings and loan association
savings bank
savings bank life insurance
savings bond
savings insurance
savings stamp
savoir faire
savoir vivre
savoir-faire
savoir-vivre
savor of
savor of wit
savoring of
savory-leaved
savory-leaved aster
savoy cabbage
saw arbor
saw bearing
saw bench
saw bill
saw bit
saw blade
saw brier
saw cabbage palm
saw carriage
saw clamp
saw cut
saw driver
saw fern
saw file
saw file temper
saw filer
saw filing
saw gate
saw gin
saw grass
saw grinder
saw guard
saw guide
saw handle
saw jointer
saw kerf
saw knife
saw log
saw logs
saw machine
saw machinery
saw maker
saw palmetto
saw palmetto berry
saw pit
saw set
saw setting
saw shark
saw sharpener
saw steel
saw straightener
saw swage
saw table
saw teeth
saw the air
saw tooth
saw tree
saw vise
saw wedge
saw wood
saw wrack
saw wrest
saw-billed
saw-edged
saw-fly
saw-handled
saw-leaved
saw-pierce
saw-pit
saw-shaped
saw-tooth wave
saw-toothed
saw-whet
saw-whet owl
saw-wort
sawara cypress
sawarra nut
sawbuck table
sawdust trail
sawed-off
sawed-off shotgun
sawing block
sawing stop
sawn-off
sawtooth roof
sawyer beetle
sax-horn
saxe blue
saxicava sand
saxifrage family
saxifrage pink
say 'amen' to
say 'ditto' to
say 'no'
say 'yes' to
say a good word for
say a word to the wise
say again
say amen to
say aside
say aye
say by the way
say cast
say farewell
say good-bye
say goodbye to
say grace
say hello
say in defense
say in reply
say nay
say neither yes nor no
say no
say no to
say nothing
say one's say
say out
say over
say over again
say over and over
say something nice about
say that all is for the best
say the word
say to yourself
say uncle
say what comes uppermost
say what you think
say yes
say your lesson
say your prayers
say your say
say-nothing
say-so
scab mite
scab over
scabbard fish
scabby mouth
scabby-head
scaff net
scaff-raff
scaffold nail
scala cordonata
scala media
scalar field
scalar product
scalar triple product
scald crow
scald' head
scald-fish
scalding hot
scale armor
scale beam
scale book
scale bug
scale buying
scale carp
scale caterpillar
scale charge
scale cordonate
scale degree
scale dove
scale down
scale drawing
scale duck
scale effect
scale fern
scale figure
scale fly
scale insect
scale leaf
scale louse
scale maker
scale making
scale micrometer
scale modulus
scale moss
scale off
scale passage
scale pipette
scale plan
scale plate
scale quail
scale reading
scale rule
scale selling
scale singing
scale stair
scale stone
scale the heights
scale the walls
scale wax
scale worm
scale-bearing
scale-board
scale-bright
scale-down
scale-tailed
scale-up
scaled partridge
scaled quail
scaled-down
scalene triangle
scalenus anterior
scalenus medius
scalenus posterior
scales of justice
scaling circuit
scaling down
scaling ladder
scaling-ladder
scallop budding
scallop-shell
scallop-shell moth
scalloped-edged
scalp dance
scalp lock
scalping boots
scalping iron
scalping-knife
scaly anteater
scaly mistletoe
scaly spleenwort
scaly tetter
scaly-bark
scaly-barked
scaly-finned
scaly-legged mite
scaly-stemmed
scaly-winged
scamper off
scan conversion
scan converter
scandal sheet
scandal-bearer
scandal-bearing
scandal-mongering
scandalous rumor
scandalum magnatum
scanning beam
scanning disk
scanning electron microscope
scanning line
scanning pattern
scanning speech
scansorial barbet
scant of
scant sufficiency
scantling number
scantling-draft vessel
scap net
scape grace
scape wheel
scape-bearer
scapho-
scapolite group
scapolite-gabbro
scapular medal
scapular-shaped
scapulo-
scar end
scar tissue
scar-bearer
scar-bearing
scar-clad
scar-faced
scar-seamed
scarab beetle
scarb-tree
scarce as hen’s teeth
scarce-closed
scarce-cold
scarce-covered
scarce-discerned
scarce-found
scarce-heard
scarce-met
scarce-moving
scarce-parted
scarce-seen
scarce-told
scarce-warned
scarcely any
scarcely anything
scarcely ever
scarcely heard
scarcely like
scarcely to be anticipated
scarcely to be expected
scarcer than hen’s teeth
scarcity price
scare away
scare bullfinch
scare goose
scare hell out of
scare off
scare one spitless
scare one stiff
scare shitless
scare stiff
scare the life out of
scare the pants off of
scare the shit out of
scare to death
scare up
scare-bear
scare-beggar
scare-bird
scare-devil
scare-fire
scare-fish
scare-fly
scare-hawk
scare-hog
scare-mouse
scare-peddler
scare-robin
scare-sheep
scare-sinner
scare-sleep
scare-thief
scare-vermin
scared rabbit
scared shitless
scared stiff
scared to death
scaredy-cat
scarf cloud
scarf joint
scarf maker
scarf making
scarf weld
scarf-skin
scarfed joint
scaring off
scarlet bugler
scarlet clematis
scarlet eggplant
scarlet fever
scarlet hat
scarlet larkspur
scarlet letter
scarlet lightning
scarlet lobelia
scarlet lychnis
scarlet madder
scarlet monkey flower
scarlet ocher
scarlet pimpernel
scarlet plume
scarlet plume
scarlet runner
scarlet runners
scarlet sage
scene master
scene of action
scene pack
scene painter
scene painting
scene plot
scene-stealer
scenery wagon
scenic artist
scenic railway
scenic view
scent article
scent bag
scent ball
scent bottle
scent box
scent from afar
scent gland
scent out
scent scale
scented fern
scented grass
scented oak fern
scented tea
scented verbena
scentless camomile
schappe silk
schedule of operation
schedule rate
scheduled airline
scheduled castes
scheduled territories
scheme arch
scheme of arrangement
scheme out
schenk beer
schick test
schiller spar
schist oil
schistosome dermatitis
schiz-
schizo-
schizoid personality
schizothymic personality
schlieren effect
schlieren method
schlieren photography
schlock house
school ethics
school exercise
school fee
school for the handicapped
school friendship
school furniture
school garden
school globe
school grade
school grammar
school hour
school inspector
school kid
school lad
school land
school language
school library
school life
school locker
school logic
school manager
school manner
school map
school matter
school medicine
school model
school moralist
school morality
school name
school nurse
school of architecture
school of art
school of arts and crafts
school of communications
school of continuing education
school of design
school of drama
school of dramatic arts
school of education
school of fine arts
school of graphic arts
school of philosophy
school of the performing arts
school of thought
school officer
school omnibus
school opinion
school organ
school pad
school paper
school pedantry
school pence
school philosopher
school philosophy
school phrase
school playground
school porter
school prank
school principal
school prize
school publication
school publisher
school question
school quiddity
school railing
school rating
school register
school ring
school roof
school rule
school savings bank
school scale
school schnapper
school scissors
school seat
school seating
school section
school shark
school ship
school sign
school signal
school slate
school snapper
school strap
school subtlety
school superintendent
school supervisor
school survey
school syllogism
school table
school tablet
school tax
school team
school term
school testing
school theology
school tie
school trick
school vacation
school ventilator
school vise
school wage
school wagon
school warden
school wardrobe
school welfare officer
school without walls
school year
school-age
school-bred
school-house
school-leaving
school-made
school-magisterial
school-taught
school-trained
schools and movements
schools of
schooner bark
schooner ketch
schooner rig
schooner-rigged
schorl-granite
schorl-rock
schreiner finish
sci-fi
sciara army worm
sciatic artery
sciatic foramen
sciatic neuritis
science dictionary
science fiction
science in the flesh
science of being
science of discursive thought
science of human behavior
science of language
science of man
science of mind
science of the mind
science of war
science-fiction novel
scientia est potentia
scientia scientiarum
scientific education
scientific exactness
scientific humanism
scientific management
scientific method
scientific name
scientific socialism
scientifically exact
scimitar foot
scimitar-shaped
scintillation counter
scintillation spectrometer
scire facias
scissor blade
scissor case
scissor chain
scissor kick
scissor maker
scissor making
scissor screw
scissor sharpener
scissor tooth
scissor-fashion
scissor-grinder
scissor-legs
scissor-tailed
scissor-winged
scissors blade
scissors case
scissors chain
scissors chair
scissors fault
scissors hardener
scissors kick
scissors maker
scissors making
scissors pipe
scissors sharpener
scissors truss
scissors worker
scissors-fashion
scissors-grinder
scissors-shaped
scissors-smith
scler-
sclero-
sclero-oophoritis
sclero-optic
sclerosing inflammation
sclerotium disease
scoff at
scoinson arch
scold's bridle
scolding bridle
scolding stool
scolding winds
sconcheon arch
scone cap
scoop bonnet
scoop driver
scoop neck
scoop neckline
scoop net
scoop out
scoop seat
scoop shovel
scoop the market
scoop wheel
scoop, the
scoop-net
scope of mind
scope of vision
scopol-
scps owl
scorched earth
scorched earth policy
scorched-earth tactics
scorching hot
score a breakthrough
score a bull's eye
score a success
score card
score off
score playing
score sheet
score up
scorn to accept
scorn to receive
scornful laugh
scornful smile
scorpion broom
scorpion bug
scorpion fish
scorpion fly
scorpion grass
scorpion iris
scorpion lobster
scorpion mouse
scorpion oil
scorpion plant
scorpion senna
scorpion shell
scorpion spider
scorpion thorn
scot and lot
scot-free
scotch broth
scotch cap
scotch roman
scotch terrier
scotch verdict
scotch whisky
scotch woodcock
scotch your wheel
scotch-hopper
scotch-irish
scotch-tape
scotch-taped
scotch-taping
scotland yard
scoto-
scottish gaelic
scottish rite
scottish terrier
scour out
scour the country
scourge top
scouring ball
scouring barrel
scouring cinder
scouring out
scouring pad
scouring rush
scouring stock
scout around
scout at
scout badge
scout boat
scout camp
scout car
scout commissioner
scout cruiser
scout executive
scout law
scout motto
scout oath
scout out
scout patrol
scout plane
scout salute
scout ship
scout sign
scout staff
scout training
scout vessel
scouting plane
scove kiln
scr-
scrabble up
scrabble your way up
scrag end
scrag whale
scram hand
scram-handed
scramble for
scramble up
scrambled eggs
scrap basket
scrap box
scrap heap
scrap iron
scrap log
scrap paper
scrap pudding
scrap rubber
scrap the plan
scrap value
scrap-book
scrap-heap
scrape acquaintance with
scrape along
scrape and save
scrape in
scrape into
scrape off
scrape out
scrape through
scrape together
scrape together or up
scrape up
scrape-finished
screw joint
screw key
screw machine
screw machinery
screw maker
screw making
screw mill
screw mooring
screw mouth
screw nail
screw nut
screw palm
screw peg
screw pile
screw piling
screw pine
screw plate
screw plug
screw pod
screw post
screw press
screw propeller
screw pump
screw punch
screw rivet
screw shell
screw shot
screw smile
screw spanner
screw spike
screw stair
screw stake
screw stay
screw steamer
screw stock
screw stone
screw stud
screw surface
screw tap
screw thread
screw tool
screw tree
screw up
screw up the eyes
screw up the works
screw up your courage
screw up your face
screw up your nerve
screw wedge
screw wheel
screw wrench
screw-back
screw-bound
screw-capped
screw-chasing
screw-clamped
screw-cutting
screw-cutting lathe
screw-down
screw-driven
screw-eyed
screw-geared
screw-lifted
screw-piled
screw-pin
screw-pine
screw-pine family
screw-pitch
screw-pitch gauge
screw-pod mesquite
screw-propelled
screw-shaped
screw-slotting
screw-stoppered
screw-thread fit
screw-thread tolerance
screw-threaded
screw-topped
screw-torn
screw-turned
screw-turning
screw-up
screwed up
screwed-up
screwing around
screwing machine
scribble-scrabble
scribbling block
scribbling lark
scribe saw
scribes and Pharisees
scribing block
scribing compass
scribing gouge
scribing iron
scrieve board
scrimmage line
scrip certificate
scrip dividend
scrip issue
scrip-scrap
script reader
script-writer
scritch-owl
scritch-scratch
scritch-scratching
scrive board
scrofula plant
scroll casing
scroll chuck
scroll creeper
scroll foot
scroll front
scroll gear
scroll lathe
scroll pediment
scroll saw
scroll step
scroll wheel
scroll-cut
scroll-like
scroll-shaped
scrooch down
scrooch down
scrouch down
scrounge around
scrub birch
scrub bird
scrub brush
scrub bush
scrub chestnut oak
scrub fowl
scrub hickory
scrub juniper
scrub myrtle
scrub nurse
scrub oak
scrub out
scrub pine
scrub plane
scrub robin
scrub round
scrub sandalwood
scrub shrub
scrub turkey
scrub typhus
scrub up
scrub vine
scrub wren
scrub-bird
scrub-up
scrubbing board
scrubbing brush
scrubbing out
scrubbing up
scrubbing-brush
scrum half
scrutinize comparatively
scrutiny-proof
scuba diver
scuba diving
scuff plate
scuffle hoe
scullery maid
sculling oar
sculpting tool
sculptor's wax
sculptured glass
sculptured piece
scum of society
scum of the earth
scupper pipe
scupper shoot
scurvy grass
scurvy trick
scut work
scutch cane
scutch grass
scutching tow
scutellum rot
scuttle butt
scyphi-
scypho-
scythe maker
scythe making
scythe of Death
scythe of Time
scythe-armed
scythe-bearing
scythe-leaved
scythe-shaped
se defendendo
se tenant
se-baptism
se-baptist
sea acorn
sea adder
sea air
sea anchor
sea anemone
sea anemones
sea ape
sea apple
sea apron
sea arrow grass
sea ash
sea aster
sea bag
sea bank
sea basket
sea bass
sea bat
sea bean
sea bear
sea beef
sea beet
sea bells
sea belt
sea bent
sea bindweed
sea bird
sea biscuit
sea bladder
sea blite
sea bloom
sea blossom
sea blubber
sea blue
sea boat
sea boots
sea bottle
sea boy
sea brant
sea breach
sea bread
sea bream
sea breeze
sea brief
sea buckthorn
sea bugloss
sea burdock
sea bush
sea butterfly
sea cabbage
sea cabin
sea calf
sea campion
sea captain
sea card
sea carp
sea cat
sea catfish
sea catgut
sea cauliflower
sea celandine
sea change
sea chest
sea chickweed
sea chub
sea clam
sea cliff
sea cloth
sea club rush
sea clutter
sea coal
sea cob
sea cock
sea coco
sea coconut
sea colander
sea cole
sea colewort
sea combat
sea compass
sea connection
sea coot
sea corn
sea cow
sea cradle
sea crawfish
sea crayfish
sea creature
sea cress
sea crow
sea cucumber
sea cudweed
sea cushion
sea daffodil
sea dahlia
sea daisy
sea date
sea day
sea devil
sea dock
sea dog
sea dotterel
sea dove
sea dragon
sea drake
sea duck
sea dust
sea duty
sea eagle
sea ear
sea eel
sea egg
sea elephant
sea endive
sea fan
sea feather
sea fee
sea fennel
sea fern
sea fig
sea fight
sea fir
sea fire
sea fish
sea fisher
sea fisherman
sea fishery
sea fishing
sea flea
sea foalfoot
sea foam
sea fog
sea food
sea fox
sea fret
sea front
sea frontage
sea froth
sea furbelow
sea gasket
sea gate
sea gauge
sea gillyflower
sea girdle
sea god
sea gods
sea goose
sea gooseberry
sea goosefoot
sea gown
sea grape
sea grass
sea grass wrack
sea green
sea gromwell
sea gudgeon
sea gull
sea gypsy
sea hanger
sea hare
sea hawk
sea hay
sea heath
sea hedgehog
sea hen
sea herdsman
sea herring
sea hog
sea holly
sea hollyhock
sea holm
sea horse
sea hulver
sea ice
sea island
sea island cotton
sea kale
sea kelps
sea kidney
sea king
sea kittie
sea lace
sea ladder
sea lamprey
sea lane
sea language
sea lark
sea laurel
sea lavender
sea law
sea lawyer
sea league
sea leather
sea legs
sea lemon
sea lentil
sea leopard
sea letter
sea lettuce
sea level
sea light
sea lily
sea line
sea lion
sea lizard
sea loach
sea louse
sea lovage
sea luce
sea lungs
sea lungwort
sea lyme grass
sea magpie
sea mail
sea mallow
sea mantis
sea margin
sea marigold
sea mat
sea matweed
sea meadow
sea membrane
sea mew
sea mile
sea milkwort
sea mink
sea mist
sea monk
sea monster
sea moss
sea moth
sea mouse
sea mud
sea mugwort
sea mulberry
sea mule
sea mullet
sea necklace
sea nettle
sea nymph
sea oak
sea oat
sea of flames
sea of grass
sea of troubles
sea officer
sea onion
sea ooze
sea orach
sea orange
sea ore
sea otter
sea owl
sea oxeye
sea palm
sea panther
sea park
sea parrot
sea parsley
sea parsnip
sea partridge
sea pass
sea pay
sea pea
sea peach
sea pear
sea peat
sea pen
sea perch
sea perils
sea pheasant
sea pie
sea piet
sea pig
sea pigeon
sea pike
sea pimpernel
sea pincushion
sea pine
sea pink
sea plain
sea plantain
sea plume
sea poacher
sea poker
sea poppy
sea porcupine
sea post
sea post office
sea potato
sea power
sea preacher
sea pumpkin
sea purse
sea purslane
sea puss
sea quail
sea radish
sea ragweed
sea ragwort
sea ranger
sea rat
sea raven
sea reach
sea reed
sea rim
sea risk
sea risks
sea road
sea robber
sea robin
sea rocket
sea rod
sea room
sea rosemary
sea rover
sea ruffle
sea salmon
sea salt
sea sand
sea sand grass
sea sand reed
sea sandpiper
sea sands
sea sandwort
sea scallop
sea scorpion
sea scout
sea scouting
sea sedge
sea serpent
sea service
sea shell
sea shrub
sea silk
sea sled
sea slope
sea slug
sea smoke
sea snail
sea snake
sea snipe
sea soldier
sea soldiers
sea spear grass
sea spider
sea spirit
sea spleenwort
sea squill
sea squirt
sea stack
sea staff
sea staghorn
sea star
sea starwort
sea steps
sea stickleback
sea stores
sea sulphurweed
sea surgeon
sea swallow
sea swine
sea tangle
sea term
sea thief
sea thong
sea thrift
sea time
sea titling
sea toad
sea tortoise
sea town
sea train
sea travel
sea tree
sea trip
sea trout
sea trumpet
sea turn
sea turnip
sea turtle
sea twine
sea unicorn
sea urchin
sea valve
sea vampire
sea wall
sea walnut
sea wand
sea warfare
sea water
sea wax
sea wheat
sea whip
sea whipcord
sea whiplash
sea whistle
sea widgeon
sea willow
sea withwind
sea wolf
sea woodcock
sea worm
sea wormwood
sea wrack
sea-bank
sea-bathed
sea-bean
sea-beast
sea-beat
sea-beaten
sea-bird
sea-boat
sea-born
sea-borne
sea-bounded
sea-bounding
sea-bred
sea-breeze
sea-broke
sea-built
sea-calf
sea-captain
sea-card
sea-holm
sea-horse
sea-island
sea-island cotton
sea-kale
sea-kale beet
sea-kindliness
sea-kindly
sea-king
sea-lane
sea-lawyer
sea-legs
sea-level
sea-level pressure
sea-line
sea-lion
sea-lost
sea-louse
sea-loving
sea-maid
sea-maiden
sea-mark
sea-monk
sea-monster
sea-mouse
sea-nymph
sea-otter
sea-otter's-cabbage
sea-packed
sea-parrot
sea-pie
sea-piece
sea-pike
sea-pink
sea-plane
sea-poacher
sea-potent
sea-purse
sea-quake
sea-racing
sea-raven
sea-robin
sea-room
sea-rounded
sea-rover
sea-roving
sea-run
sea-running
sea-sailing
sea-salt
sea-sand
sea-saw
sea-scape
sea-scented
sea-scourged
sea-serpent
sea-service
sea-shell
sea-shore
sea-shouldering
sea-sick
sea-side
sea-slug
sea-snail
sea-snake
sea-snipe
sea-spider
sea-star
sea-surrounded
sea-swallow
sea-swallowed
sea-torn
sea-tossed
sea-tost
sea-traveling
sea-trout
sea-urchin
sea-wall
sea-walled
sea-wandering
sea-ware
sea-washed
sea-water
sea-water green
sea-way
sea-weary
sea-wide
sea-wilder
sea-wolf
sea-wrack
sea-wrecked
seabeach morning-glory
seabeach sandwort
seacoast angelica
seacoast laburnum
seafaring man
seam strip
seam weld
seam welding
seam-rent
seam-ript
seaman apprentice
seaman branch
seaman gunner
seaman recruit
seaming dies
seaming lace
seamless stockings
seamy-sided
seaplane carrier
sear pin
search coil
search ephemeris
search for
search high heaven
search into
search lamp
search me
search mission
search out
search party
search plane
search radar
search room
search thoroughly
search through
search warrant
search your motives
search your soul
search-and-destroy mission
search-and-destroy operation
searching investigation
searchlight lantern
seared conscience
seashell pink
seashore heliotrope
seashore pea
seaside alder
seaside arrowgrass
seaside aster
seaside balsam
seaside bean
seaside bent
seaside brome grass
seaside crowfoot
seaside daisy
seaside finch
seaside gerardia
seaside goldenrod
seaside grape
seaside heliotrope
seaside knotweed
seaside laurel
seaside millet
seaside morning-glory
seaside oat
seaside oxeye
seaside painted-cup
seaside pea
seaside pimpernel
seaside pine
seaside plantain
seaside plum
seaside poppy
seaside radish
seaside sandwort
seaside sparrow
seaside spurge
season check
season crack
season of the year
season ticket
seasonal unemployment
seasoned hand
seasoned professional
seasoned salt
seasoned stock
seasoned understanding
seasoned veteran
seat angle
seat arm
seat back
seat bath
seat belt
seat board
seat bone
seat clip
seat cover
seat coverer
seat cushion
seat designer
second-cut
second-cut file
second-degree
second-degree burn
second-drawer
second-feet
second-first
second-floor
second-foot
second-growth
second-guess
second-guesser
second-hand
second-handedness
second-in-command
second-line battleship
second-line destroyer
second-order reaction
second-rate
second-rateness
second-rater
second-sighted
second-sightedness
second-story
second-story man
second-story thief
second-story work
second-story worker
second-touch
secondary accent
secondary articulation
secondary battery
secondary burial
secondary cell
secondary color
secondary colour
secondary con
secondary condition
secondary contact
secondary diagonal
secondary digestion
secondary disease
secondary eardrum
secondary education
secondary electron
secondary emission
secondary evidence
secondary group
secondary infection
secondary intention
secondary issue
secondary modern school
secondary oocyte
secondary ordinary
secondary phloem
secondary planet
secondary plot
secondary processes
secondary propyl alcohol
secondary quality
secondary radiation
secondary road
secondary school
secondary schooler
secondary sense
secondary sex character
secondary sex characteristic
secondary sexual characteristic
secondary shock
secondary spermatocyte
secondary stress
secondary syphilis
secondary wave
secondary xylem
secondary-emission tube
secondhand clothes
secondhand shop
secondhand store
seconds pendulum
secret agent
secret ballot
secret block
secret caucus
secret exit
secret grip
secret heart
secret ink
secret language
secret nailing
secret name
secret order
secret partner
secret passage
secret place
secret places
secret police
secret recesses of the heart
secret service
secret society
secret staircase
secret thoughts
secret writing
secret-false
secret-service
secretarial school
secretaries-general
secretary bird
secretary bookcase
secretary of legation
secretary of state
secretary-general
secretary-treasurer
secreto-inhibitory
section bar
section boss
section crew
section cutter
section eight
section gang
section hand
section line
section man
section mark
section mill
section modulus
section paper
section plane
sector disk
sector gear
sector wheel
secular canoness
secular humanism
secular humanist
secular tertiaries
secular vicar
secure place in history
secure the engines
secure the main induction
secure your object
secured bond
secured loan
securi-
securities issue
security agreement
see fit
see how the cat jumps
see how the cookie crumbles
see how the land lies
see how the wind blows
see if one can do
see in a special light
see in its true colors
see in one's mind
see in perspective
see in retrospect
see in the crystal ball
see into
see it out
see it through
see justice done
see life
see nothing
see nuances of difference
see of
see off
see only the good points of
see out
see over
see poorly
see red
see shades of difference
see that
see the cloven hoof
see the difference
see the future
see the inside of
see the light
see the light of day
see the lions
see the sights
see the special circumstances
see through
see through a glass
see through rose-colored glasses
see through the press
see to
see to it
see to the bottom of
see visions and dream dreams
see what can be done
see what you can do
see which way the cat jumps
see which way the land lies
see which way the wind blows
see with half an eye
see with your own eyes
see you
see you alone
see you later
see you redressed
see you righted
see you through
see your way
see your way clear
see-bright
see-er
see-ho
see-through
seed ball
seed beetle
seed capsule
seed coat
seed coral
seed corn
seed cotton
seed crown
seed down
seed feed cup
seed fern
seed fish
seed hair
seed leaf
seed mesquite
seed money
seed oil cake
seed oyster
seed pearl
seed plant
seed planter
seed plants
seed plat
seed plate
seed plot
seed plow
seed pod
seed potato
seed screener
seed snipe
seed stitch
seed stock
seed tick
seed treatment
seed tree
seed vessel
seed weevil
seed-cake
seed-corn
seed-corn maggot
seed-eating bird
seed-lac
seed-lip
seed-pearl
seed-snipe
seed-time
seeding plow
seedtime of life
seeing as how
seeing distinctions
seeing double
seeing eye
seeing glass
seeing that
seek for
seek gapeseed
seek in law
seek justice
seek legal redress
seek out
seek peace
seek refuge
seek the company of
seek to
seek-sorrow
seem like
seem likely
seem to be
seem true
seenie bean
seep in
seer-fish
segment gear
segment rack
segmental arch
segmental phoneme
segmental saw
segmentation cavity
segmentation nucleus
segmentation sphere
selective-head
selective-head lathe
selector switch
selen-
senic acid
selenio-
senious acid
selenium cell
seleno-
senographic chart
self blue
self correlation
self destruction
self discharge
self examination
self incrimination
self psychologist
self psychology
self-
self-abandon
self-abandoned
self-abandoning
self-abandoningly
self-abandonment
self-abased
self-abasement
self-abasing
self-abdication
self-abhorrence
self-abhorring
self-ability
self-abnegating
self-abnegation
self-abnegatory
self-abominating
self-abomination
self-absorbed
self-absorption
self-abuse
self-abuser
self-accorded
self-accusation
self-accusative
self-accusatory
self-accused
self-accuser
self-accusing
self-acknowledged
self-affected
self-affecting
self-affectionate
self-affirmation
self-afflicting
self-affliction
self-afflictive
self-affrighted
self-agency
self-aggrandized
self-aggrandizement
self-aggrandizing
self-aid
self-aim
self-aligning
self-aligning
self-aimment
self-alining
self-amendment
self-amplifier
self-amputation
self-amusement
self-analysis
self-analytical
self-analyzed
self-anatomy
self-angry
self-annealing
self-annihilated
self-annihilation
self-annulling
self-answering
self-antithesis
self-apparent
self-applauding
self-applause
self-applausive
self-application
self-applied
self-applying
self-appointed
self-appointment
self-appreciating
self-appreciation
self-approbalion
self-approval
self-approved
self-approver
self-approving
self-arched
self-arching
self-arising
self-asserting
self-assertingly
self-assertion
self-assertive
self-assertively
self-assertiveness
self-assertory
self-assigned
self-assumed
self-assuming
self-assumption
self-assurance
self-assured
self-assuredness
self-attachment
self-attracting
self-attraction
self-attractive
self-attribution
self-auscultation
self-authority
self-authorized
self-authorizing
self-aware
self-awareness
self-bailing
self-balanced
self-banished
self-banishment
self-baptizer
self-basting
self-beautiful
self-beauty
self-bedizenment
self-befooled
self-begetter
self-begotten
self-beguiled
self-being
self-belief
self-benefit
self-benefiting
self-besot
self-betrayal
self-betrayed
self-betraying
self-betrothed
self-bias
self-binder
self-binding
self-black
self-blame
self-blamed
self-blessed
self-blind
self-bindered
self-blinking
self-blood
self-boarding
self-boasted
self-boasting
self-boiled
self-bored
self-born
self-buried
self-burning
self-called
self-cancelled
self-cancelled
self-canting
self-capacity
self-captivity
self-care
self-castigating
self-castigation
self-catalysis
self-catalyst
self-catering
self-causation
self-caused
self-center
self-centered
self-centered self-contained
self-centeredly
self-centeredness
self-centering
self-centerment
self-centralization
self-centeration
self-centred
self-centredly
self-centredness
self-chain
self-changed
self-changing
self-charging
self-charity
self-chastise
self-chastised
self-chastisement
self-chastising
self-cheatery
self-checking
self-chosen
self-christened
self-clamp
self-cleaning
self-clearance
self-closed
self-closing
self-cocker
self-cocking
self-cognition
self-cognizably
self-cognizance
self-coherence
self-coiling
self-collected
self-collectedness
self-collection
self-color
self-colored
self-colour
self-coloured
self-combating
self-combustion
self-command
self-commande
self-commendation
self-comment
self-commissioned
self-commitment
self-committal
self-committing
self-commune
self-communed
self-communication
self-communicative
self-communing
self-communion
self-comparison
self-compassion
self-compatible
self-compensation
self-competition
self-complacency
self-complacent
self-complacental
self-complacently
self-complaisance
self-completion
self-composed
self-composedly
self-composedness
self-comprehending
self-comprised
self-conceit
self-conceited
self-conceitedly
self-conceitedness
self-conceived
self-concentered
self-concentrated
self-concentration
self-concept
self-concern
self-concerned
self-concerning
self-concernment
self-condemnable
self-condemnant
self-condemnation
self-condemnatory
self-condemned
self-condemnedly
self-condemning
self-condemningly
self-conditioned
self-conditioning
self-conduct
self-confessed
self-confession
self-confidence
self-confident
self-confidently
self-confiding
self-confinement
self-confining
self-conflict
self-conflicting
self-conformance
self-con founding
self-confuted
self-congratulating
self-congratulation
self-congratulatory
self-conjugate
self-conjugately
self-conjugation
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self-professed
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self-propeller
self-propelling
self-propulsion
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self-pruning
self-puffery
self-punished
self-punisher
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self-punishment
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self-rake
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self-reading
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self-realizationism
self-realizationist
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self-reconstruction
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self-recrimination
self-rectifying
self-reduction
self-reduplication
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self-regardlessly
self-regardlessness
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self-registering thermometer
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self-repugnant
self-repulsive
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self-restriction
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self-righteously
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self-righter
self-righting
self-rigorous
self-rising
self-rolled
self-roofed
self-ruin
self-ruined
self-rule
self-ruling
self-sacrifice
self-sacrificer
self-sacrificial
self-sacrificing
self-sacrificingly
self-sacrificingness
self-safety
self-same
self-sanctification
self-satirist
self-satisfaction
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self-satisfying
self-satisfyingly
self-scanned
self-schooled
self-schooling
self-science
self-scorn
self-scourging
self-scrutinized
self-scrutinizing
self-scrutiny
self-sealer
self-sealing
self-searching
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self-security
self-sedimentation
self-sedimented
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self-server
self-service
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self-severe
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self-shadowing
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self-sheltered
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self-shining
self-shooter
self-shot
self-significance
self-similar
self-sinking
self-slain
self-slaughter
self-slaughtered
self-slayer
self-society
self-sold
self-solicitude
self-soothed
self-soothing
self-sophistication
self-sought
self-sounding
self-sovereignty
self-sow
self-sowed
self-sown
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self-spacing
self-speech
self-spitted
self-sprung
self-stability
self-stabilized
self-stabilizing
self-starter
self-starting
self-starved
self-steered
self-sterile
self-sterility
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self-stimulating
self-stimulation
self-stowing
self-strength
self-stripper
self-strong
self-stuck
self-study
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self-styled lawyer
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self-subdued
self-subjection
self-subjugating
self-subjugation
self-subordained
self-subordinating
self-subordination
self-subsidation
self-subsistence
self-subsistency
self-subsistent
self-subsisting
self-substantial
self-subversive
self-sufficient
self-sufficed
self-sufficience
self-sufficiency
self-sufficient
self-sufficiently
self-sufficientness
self-sufficing
self-sufficingly
self-sufficingness
self-suggested
self-suggester
self-suggestion
self-suggestive
self-suppletive
self-support
self-supported
self-supportedness
self-supporting
self-supportingly
self-supportless
self-suppressing
self-suppression
self-suppressive
self-sure
self-surrender
self-surrendering
self-survey
self-surveyed
self-surviving
self-survivor
self-suspended
self-suspicion
self-suspicious
self-sustained
self-sustaining
self-sustainingly
self-sustainment
self-sustenance
self-sustentation
self-sway
self-tapping
self-tapping screw
self-taught
self-taught man
self-taught person
self-taxation
self-taxed
self-teacher
self-teaching
self-tempted
self-tenderness
self-terminating
self-terminative
self-testing
self-thinking
self-thinning
self-thought
self-threading
self-tightening
self-timer
self-tipping
self-tire
self-tired
self-tiring
self-tolerant
self-tolerantly
self-toning
self-tortment
self-tormented
self-tortmenter
self-tortmenting
self-tormentedly
self-tormentor
self-torture
self-tortured
self-torturing
self-trained
self-training
self-transformation
self-transformed
self-treated
self-treatment
self-trial
self-triturating
self-troubled
self-troubling
self-trust
self-trusting
self-tuition
self-uncertain
self-unconscious
self-understand
self-understanding
self-understood
self-undoing
self-unfruitful
self-uniform
self-union
self-unity
self-unloader
self-unloading
self-unscabbarding
self-unveiling
self-unworthiness
self-upbraiding
self-usurp
self-validating
self-valuation
self-valued
self-valuing
self-variance
self-variation
self-varying
self-vaunted
self-vaulting
self-ventilation
self-ventilated
self-vexation
self-view
self-vindicated
self-vindicating
self-vindication
self-violence
self-violent
self-vivacious
self-vivisector
self-vulcanizing
self-want
self-wardness
self-warranting
self-watchfulness
self-weariness
self-weary
self-weight
self-weighted
self-whipper
self-whipping
self-whole
self-widowered
self-will
self-willed
self-willedly
self-willedness
self-winding
self-wine
self-wisdom
self-wise
self-witness
self-witnessed
self-working
self-worn
self-worship
self-worshiper
self-worshiping
self-worshipper
self-worshipping
self-worth
self-worthiness
self-wounded
self-wounding
self-writing
self-written
self-wrong
self-wrongly
self-wrought
selfish person
selfliquidating loan
sell a pig in a poke
sell at a loss
sell at a sacrifice
sell at auction
sell by auction
sell down the river
sell for
sell foreign
sell gold bricks
sell in futures
sell off
sell on consignment
sell on credit
sell one on
sell out
sell over
sell over the counter
sell retail
sell short
sell stocks
sell to the highest bidder
sell under the counter
sell up
sell wholesale
sell you a bill of goods
sell your life dearly
sell yourself
sell-off
sellenger's round
senate-house
senator-elect
senatorial courtesy
senatorial district
senatus consult
senatus consultum
send a letter to
send a note
send a statement
send a wire
send about your business
send abroad
send after
send away
send back
send down
send flying
send for
send forth
send headlong
send in
send in your papers
send mad
send off
send on a fool's errand
send on a mission
send out
send out of your mind
send out rays
send packing
send round
send scuttling
send sprawling
send to Coventry
send to Davy Jones's locker
send to glory
send to hell
send to jail
send to kingdom come
send to school
send to sleep
send to the bottom
send to the gas chamber
send to the right-about
send to the showers
send to your last account
send up
send up a prayer
send up a trial balloon
send up the river
send word
send you spinning
send your compliments
send your condolences
send your regards
send-off
send-out
sending abroad
sending back
sending set
sending station
sending to Coventry
seneca oil
seneca snakeroot
senega root
senega snakeroot
seneka root
seneka snakeroot
sengreen saxifrage
senile debility
senile dementia
senile psychosis
senile weakness
senility necrosis
senior checker
senior chief petty officer
senior citizen
senior citizenship
senior common room
senior high
senior high school
senior master sergeant
senior officer
senior securities
seniority rule
senna family
senna tree
sensation level
sensation-proof
sensational play
sense datum
sense faculty
sense finder
sense form
sense group
sense impression
sense of duty
sense of hearing
sense of humor
sense of humour
sense of indebtedness
sense of language
sense of mystery
sense of obligation
sense of relief
close of rhythm
sense of right and wrong
sense of sight
sense of smell
sense of taste
sense of the meeting
sense of touch
sense of wonder
sense organ
sense perception
sense pleasure
sense stress
sense survival
sense-bereaving
sense-bound
sense-confounding
sense-confusing
sense-data
sense-datum
sense-distracted
sense-ravishing
sensible note
sensible of
sensible price
sensible to
sensible horizon
sensitive area
sensitive ear
sensitive fern
sensitive heart
sensitive plant
sensitive to
sensitivity to
sensitivity training
sensitizing antibody
sensitol green
sensitometric curve
sensori-
sensory aid
sensory area
sensory awareness training
sensory cell
sensory deprivation
sensory epilepsy
sensory experience
sensory neuron
sensory organ
sensory paralysis
sensory pattern
sensual pleasure
sensus communis
sentence accent
sentence adverb
sentence balance
sentence building
sentence connector
sentence fragment
sentence making
sentence method
sentence modifier
sentence monger
sentence of death
sentence pattern
sentence stress
sentence structure
sentence substitute
sentence tone
sentential calculus
sentential connective
sentential function
sententious expression
sententious saying
sentiment-proof
sentimental comedy
sentimental novel
sentimental value
sentinel crab
sentry board
sentry box
sentry go
sentry-box
sentry-fashion
sentry-go
separate forcibly
separate from the service
separate identity
separate involuntarily
separate maintenance
separate out
separate person
separate returns
separate school
separate the men from the boys
separate yourself
separated brother
separating funnel
separating power
separation allowance
separation center
separation energy
separation from the service
separation layer
separation negative
separation of attention
separation of powers
separation theorem
separatory funnel
sepia paper
sepia-colored
sepia-eyed
sepia-tinted
seppa dai
sept chord
septal cartilage
septal neck
septem-
septi-
septic poisoning
septic sore throat
septic tank
septicemic plag
septicemic plague
septifragal dehiscence
septo-
septuple time
sequence flasher
sequence flashers
sequence of ideas
sequence of phonemes
sequence of tenses
sequence of thought
sequence switch
sequential access
sequential system
sequentially compact set
sequester yourself
sequoia pitch moth
serbo-
serbo-croatian
sergeant armorer
sergeant at arms
sergeant at law
sergeant bugler
sergeant clerk
sergeant cook
sergeant drummer
sergeant first class
sergeant fish
sergeant footman
sergeant instructor
sergeant major
sergeant painter
sergeant porter
sergeant saddler
sergeant schoolmaster
sergeant tailor
sergeant trumpet
sergeant trumpeter
sergeant-at-arms
sergeant-at-law
sergeant-major
sergeant-majorship
sergeants major
serial bond
serial correlation
serial epilepsy
serial number
serial operation
serial order
serial polygamy
serial right
serial technique
sericin gum
sericite gneiss
sericite schist
series dynamo
series motor
series multiple
series parallel
series resonance
series spectra
series turn
series winding
series-wound
serin finch
serio-
serio-comic
serious drinker
serious drinking
serious literature
serious music
serious operation
serious-minded
serious-mindedly
serious-mindedness
serjeant at arms
serjeant at law
serjeant-at-law
sermon bell
sermon on the mount
sero-
seroplastic inflammation
serous fluid
serous gland
serous inflammation
serous membrane
serpent cucumber
serpent cult
serpent eagle
serpent eater
serpent fern
serpent fish
serpent gourd
serpent grass
serpent melon
serpent moss
serpent radish
serpent star
serpent stone
serpent-god
serpent-goddess
serpent-shaped
serpent-stone
serpentine front
serpentine green
serpentine marble
serpentine stretcher
serran imperial
serrana hispana
serrate-ciliate
serrate-dentate
serrato-
serre-papier
serri-
serum albumin
serum anaphylaxis
serum death
serum disease
serum gamma globulin
serum globulin
serum hepatitis
serum jaundice
serum prothrombin accelerator
serum shock
serum sickness
serum therapy
serum transfusion
servant girl
servant of God
servant of the servants of God
serve Mammon
serve an apprenticeship
serve as
serve in the capacity of
serve in the office of
serve in your stead
serve notice
serve one out
serve out
serve the office of
serve the purpose
serve time
serve with the colors
serve you right
serve your need
serve-out
service ace
service aircraft
service area
service battery
service book
service box
service brake
service break
service buzzer
service call
service cap
service ceiling
service charge
service clasp
service club
service company
service court
service door
service elevator
service engineer
service entrance
service flag
service flat
service hat
service industry
service line
service magazine
service mark
service medal
service module
service of music
service of song
service pension
service pipe
service plate
service road
service side
service side line
service squadron
service stair
service station
service stripe
service switch
service tree
service troop
service uniform
service wall
servient tenement
servile work
serving cart
serving girl
serving hatch
serving knife
serving mallet
serving man
serving pantry
serving stuff
serving table
servo amplifier
servo brake
servo control
servo engineer
servo engineering
servo instrumentation
servo laboratory
servo regulator
servo system
servo tab
servo valve
servo-
servo-control
servo-controlled
servo-motor
servo-pilot
sesame grass
sesame oil
sesame seeds
sesamoid bones
sesqui-
sesquipedalian word
sessile oak
sessile-eyed
sessile-flowered
sessile-fruited
sessile-leaved
sessional indemnity
set a course
set a limit
set a new mark
set a price on
set a question
set a stopping place
set a task
set a trap for
set a value on
set about
set above
set abroach
set afloat
set against
set against one another
set agoing
set an anchor watch
set an arbitrary price on
set an end point
set an examination
set an example
set apart
set aside
set astir
set at
set at defiance
set at each other's throat
set at ease
set at hazard
set at intervals
set at large
set at liberty
set at naught
set at odds
set at rest
set at variance
set at your throat
set attention to
set back
set bar
set before
set before yourself
set book
set by
set by the ears
set chisel
set conditions
set designer
set down
set down as
set down for
set down for hearing
set down to
set eyes on
set fast
set fire to
set foot in
set foot on
set foot on dry land
set for
set form
set forth
set forward
set free
set function
set gauge
set going
set gun
set hammer
set her down
set hook
set hurdles
set in
set in contrast
set in motion
set in opposition
set in order
set in print
set in the tablets of memory
set in towards
set in your ways
set iron
set limits
set little by
set mind
set naught by
set no store by
set nut
set of conditions
set of postulates
set of rooms
set of teeth
set of the current
set of three
set of two
set off
set off against
set off for
set off to advantage
set off to good advantage
set on
set on edge
set on fire
set on foot
set on its base
set on its beam ends
set on its feet
set on its legs
set on your feet
set on your legs
set one back
set one's face against
set out
set out for
set over against
set over against one another
set toward
set tub
set type
set up
set up for
set up housekeeping
set up in business
set up shop
set upon
set upon on all sides
set width
set with thorns
set your back against the wall
set your cap at
set your cap for
set your compass for
set your course for
set your dignity aside
set your dignity to one side
set your face against
set your foot down
set your foot down on
set your hand and seal
set your hand to
set your heart against
set your heart at rest
set your heart on
set your heart upon
set your house in order
set your jaw
set your mind at ease
set your mind at rest
set your mind upon
set your seal
set your shoulder to the wheel
set your sights on
set your teeth
set your teeth on edge
set your thoughts on
set your wits to work
set yourself against
set-
set-aside
set-back
set-down
set-fair
set-hands
set-in
set-in sleeve
set-off
set-out
set-stitched
set-to
set-up
set-up board
set-upness
seti-
setoff sheet
sett beater
settee bed
settee rig
setter-forth
setter-in
setter-on
setter-out
setter-to
setter-up
setting apart
setting aside
setting at liberty
setting block
setting board
setting circle
setting coat
setting day
setting dog
setting free
setting gauge
setting hen
setting in motion
setting lotion
setting node
setting point
setting pole
setting punch
setting rule
setting stake
setting stick
setting sun
setting-free
setting-out
setting-to
setting-up
setting-up exercise
setting-up exercises
settle a score
settle accounts
settle accounts with
settle at
settle bed
settle differences
settle down
settle for
settle in
settle into
settle it
settle on
settle preliminaries
settle the land
settle the matter
settle the score
settle to rest
settle to sleep
settle upon
settle with
settle your differences
settle your hash
settle your mind
settle- abide
settle-bench
settle-brain
settle-down
settled belief
settled in habit
settled judgment
settled principle
settled production
settled purpose
settled soap
settled upon
settlement day
settlement house
settlement lease
settlement option
settlement sheet
settlement worker
settling clerk
settling day
settling price
seven deadly sins
seven o’clock
seven principles of man
seven sacraments
seven seas
seven sisters
seven sleepers
seven stars
seven year
seven-banded
seven-branched
seven-caped
seven-card stud
seven-channeled
seven-chorded
seven-cornered
seven-day
seven-eleven
seven-eyed
seven-eyes
seven-figure
seven-foot
seven-footer
seven-formed
seven-gated
seven-gilled
seven-hand
seven-headed
seven-hilled
seven-hilly
seven-holes
seven-horned
seven-inch
seven-league
seven-league boots
seven-leaved
seven-line
seven-masted
seven-mouthed
seven-nerved
seven-ounce
seven-part
seven-part time
seven-piled
seven-ply
seven-point
seven-point circle
seven-poled
seven-pronged
seven-quired
seven-sealed
seven-shilling
seven-shooter
seven-sided
seven-sisters
seven-spot
seven-spotted
seven-syllabled
seven-thirties
seven-thirty
seven-thorned
seven-tined
seven-toned
seven-twined
seven-twisted
seven-up
seven-year
seven-year itch
seventeen-hundreds
seventeen-year
seventeen-year locust
seventh chord
seventh day
seventh heaven
seventh nerve
seventh-day
seventy-day
seventy-dollar
seventy-eighth
seventy-eighth
seventy-fifth
seventy-first
seventy-five
seventy-foot
seventy-footer
seventy-four
seventy-fourth
seventy-horse
seventy-mile
seventy-nine
seventy-ninth
seventy-odd
seventy-one
seventy-second
seventy-seven
seventy-seventh
seventy-six
seventy-sixth
seventy-third
seventy-three
seventy-ton
sexual congress
sexual customs
sexual desire
sexual deviance
sexual deviant
sexual deviate
sexual deviation
sexual excitement
sexual freedom
sexual generation
sexual infantilism
sexual innocence
sexual instinct
sexual intercourse
sexual inversion
sexual invitation
sexual longing
sexual love
sexual magnetism
sexual morality
sexual mores
sexual normality
sexual overture
sexual passion
sexual pathology
sexual perversion
sexual pervert
sexual pleasure
sexual possession
sexual power
sexual practices
sexual precocity
sexual preference
sexual psychopath
sexual psychopathy
sexual relations
sexual reproduction
sexual revolution
sexual selection
sexual union
sexual urge
sexually abstinent
sexually excited
sexually innocent
sexy body
sh-sh
shab-rag
shabby-genteel
shabby-gentility
shack bait
shack up
shackle bar
shackle bolt
shackle insulator
shackle joint
shad fly
shad frog
shad scale
shad spirit
shad tree
shad-bellied
shad-belly
shad-blow
shade deck
shade into
shade of difference
shade off
shade pine
shade plant
shade tree
shade-bearing
shade-enduring
shade-giving
shade-grown
shade-loving
shade-seeking
shades and shadows
shades below
shades of death
shading amplifier
shading coil
shadow band
shadow bird
shadow box
shadow cabinet
shadow compass
shadow cone
shadow dance
shadow fight
shadow figure
shadow forth
shadow line
shadow mask
shadow nucleus
shadow of death
shadow of doubt
shadow pantomime
shadow pin
shadow play
shadow show
shadow skirt
shadow stitch
shadow stop
shadow test
shadow-box
shadow-mask kinescope
shadowed forth
shadows numberless
shady dealings
shady reputation
shaft alley
shaft efficiency
shaft eye
shaft feather
shaft furnace
shaft governor
shaft grave
shaft grave tomb
shaft head
shaft horse
shaft horsepower
shaft house
shaft key
shaft sinker
shaft tackle
shaft tug
shaft tunnel
shaft-rubber
shaft-straightener
shaftfoot man
shafting lathe
shag ass
shag rug
shag-haired
shag-rag
shagbark hickory
shaggy cap
shaggy dog story
shaggy-barked
shaggy-bearded
shaggy-bodied
shaggy-coated
shaggy-dog story
shaggy-fleeced
shaggy-footed
shaggy-haired
shaggy-leaved
shaggy-mane
shaggy-mane mushroom
shaggy-maned
shake a leg
shake all over
shake bolt
shake culture
shake down
shake hands
shake hands and kiss babies
shake hands on
shake hands with
shake hands with yourself
shake in your boots
shake in your shoes
shake it up
shake like an aspen leaf
shake like jelly
shake off
shake off the yoke
shake on it
shake the dust from your feet
shake the head
shake the windows
shake up
shake with laughter
shake your faith
shake your fist at
shake your hand
shake your head
shake your head at
shake-bag
shake-cabin
shake-down
shake-hands
shake-out
shake-rag
shake-up
shakebag club
shakebag match
shakedown artist
shakedown cruise
shaken up
shaking of hands
shaking palsy
shaking prairie
shaking pudding
shaking table
shaky health
shalach manosh
shale green
shale naphtha
shale oil
shale spirit
shallot sauce
shallow structure
shallow water
shallow-bottomed
shallow-brained
shallow-draft
shallow-footed
shallow-forded
shallow-headed
shallow-hulled
shallow-minded
shallow-mindedness
shallow-pated
shallow-read
shallow-rooted
shallow-rooting
shallow-sea
shallow-searching
shallow-sighted
shallow-soiled
shallow-thoughted
shallow-toothed
shallow-waisted
shallow-water
shallow-witted
shallow-wittedness
shalom aleichem
shalom alekhem
shalosh seudos
shalosh seudoth
sham object
sham subject
shama millet
shamalo grass
shame brier
shame child
shame vine
shame-burnt
shame-crushed
share certificate
share crop
share head
share in
share ledger
share out
share premium
share register
share tenant
share with
share your bed and board
share your grief
share your sorrow
share-out
shared pair
sharing of grief
sharing of sorrow
sharing out
shark barrow
shark bell
shark moth
shark net
shark oil
shark patrol
shark pilot
shark ray
shark siren
shark sucker
shark-liver
shark-liver oil
sharkskin pahoehoe
sharp air
sharp as a needle
sharp as a razor
sharp as a tack
sharp as a two-edged sword
sharp as broken glass
sharp cash
sharp cedar
sharp dock
sharp ear
sharp edge
sharp eye
sharp freezing
sharp frost
sharp iron
sharp look
sharp mixture
sharp pain
sharp practice
sharp sand
sharp sight
sharp wind
sharp words
sharp-angled
sharp-ankled
sharp-back
sharp-back shark
sharp-backed
sharp-beaked
sharp-bellied
sharp-billed
sharp-biting
sharp-bottomed
sharp-breasted
sharp-clawed
sharp-cornered
sharp-cut
sharp-cutting
sharp-ear ed
sharp-edged
sharp-elbowed
sharp-eye
sharp-eyed
sharp-eyes
sharp-faced
sharp-fanged
sharp-featured
sharp-flavored
sharp-freeze
sharp-freezer
sharp-freezing
sharp-froze
sharp-frozen
sharp-fruited
sharp-gritted
sharp-ground
sharp-headed
sharp-heeled
sharp-horned
sharp-keeled
sharp-leaved
sharp-looking
sharp-minded
sharp-nebb ed
sharp-nosed
sharp-nosed shark
sharp-nosedly
sharp-nosedness
sharp-odored
sharp-petaled
sharp-piercing
sharp-piled
sharp-pointed
sharp-quilled
sharp-ridged
sharp-set
sharp-setness
sharp-shinned
sharp-shinned hawk
sharp-sighted
sharp-sightedly
sharp-sightedness
sharp-smelling
sharp-smitten
sharp-snouted
sharp-staked
sharp-staring
sharp-tailed
sharp-tailed grouse
sharp-tailed sparrow
sharp-tasted
sharp-tasting
sharp-tempered
sharp-toed
sharp-tongued
sharp-toothed
sharp-toothed unkindness
sharp-topped
sharp-visaged
sharp-whetted
sharp-winged
sharp-witted
sharp-wittedly
sharp-wittedness
sharpen a distinction
sharpen the wits
sharpen your tools
sharper than a serpent's tooth
sharptail mola
shatter your hopes
shattered mind
shattered nerves
shave away
shave grass
shave hook
shave off
shave rush
shaving basin
shaving board
shaving box
shaving brush
shaving case
shaving cream
shaving cup
shaving dies
shaving glass
shaving horse
shaving mill
shaving mirror
shaving mug
shaving paper
shaving paste
shaving powder
shaving set
shaving soap
shaving stand
shaving stick
shaving strop
shaving towel
shaving water
shawl collar
shawl goat
shawl loom
shawl material
shawl pattern
shawl strap
shawl waistcoat
she all
she pitch pine
she teak
she-actor
she-adventurer
she-ape
she-apostle
she-ass
she-baker
she-balsam
she-bear
she-beech
she-captain
she-chattel
she-costermonger
she-cousin
she-demon
she-devil
she-dragon
she-fish
she-foal
she-fool
she-fox
she-friend
she-goat
she-god
she-gypsy
she-ironbark
she-kind
she-king
she-lion
she-malady
she-monster
she-negro
she-oak
she-page
she-panther
she-peace
she-pig
she-pine
she-poet
she-poetry
she-preacher
she-priest
she-relative
she-saint
she-salmon
she-school
she-scoundrel
she-society
she-sparrow
she-sun
she-thief
she-tongue
she-villain
she-whale
she-witch
she-wolf
she-woman
shea butter
shea tree
shea-nut
shed hand
shed ink
shed light upon
shed luster on
shed new light upon
shed of
shed roof
shed tears
shed-builder ant
sheeling hill
sheep bar
sheep barn
sheep bell
sheep bot
sheep botfly
sheep boy
sheep breeder
sheep breeding
sheep bur
sheep clipper
sheep clipping
sheep dip
sheep dipper
sheep dipping
sheep dog
sheep fair
sheep farm
sheep farmer
sheep farming
sheep fescue
sheep fescue grass
sheep flake
sheep fly
sheep gadfly
sheep hound
sheep husbandry
sheep ked
sheep killer
sheep killing
sheep land
sheep laurel
sheep louse
sheep measles
sheep oat grass
sheep owner
sheep owning
sheep parsley
sheep pelt
sheep pest
sheep plant
sheep poison
sheep pox
sheep rack
sheep raiser
sheep raising
sheep ranch
sheep range
sheep reeve
sheep rot
sheep run
sheep scab
sheep scabious
sheep shears
sheep silver
sheep sorrel
sheep station
sheep tansy
sheep tick
sheep wash
sheep washer
sheep's eye
sheep's eyes
sheep's fescue
sheep's head
sheep's sorrel
sheep's-bit
sheep-biter
sheep-dip
sheep-grazing
sheep-hued
sheep-kneed
sheep-lice
sheep-root
sheep-shearer
sheep-shearing
sheep-sick
sheep-spirited
sheep-tick
sheep-white
sheep-witted
sheepdog trial
sheepshead minnow
sheepshead porgy
sheep's wool sponge
sheer batten
sheer boom
sheer chemistry
sheer draft
sheer drawing
sheer hook
sheer leg
sheer legs
sheer line
sheer off
sheer plan
sheer pole
sheer ratline
sheer stockings
sheer strake
sheer thursday
sheer-built
sheer-hulk
sheer-off
sheet anchor
sheet bend
sheet bundler
sheet cable
sheet chain
sheet down
sheet erosion
sheet film
sheet glass
sheet home
sheet iron
sheet lightning
sheet metal
sheet mill
sheet mold
sheet music
sheet of fire
sheet of rain
sheet pavement
sheet pile
sheet piling
sheet steel
sheet tin
sheet watermark
sheet writer
sheet-anchor
sheet-block
sheet-fed
sheet-fed press
sheeting pile
sheld-duck
shell parakeet
shell pear
shell pink
shell plating
shell pump
shell quail
shell reamer
shell reducer
shell road
shell room
shell ruching
shell sac
shell shock
shell snail
shell socket
shell steak
shell stitch
shell strake
shell transformer
shell turtle
shell-carving
shell-fish
shell-leaf
shell-less
shell-like
shell-shaped
shell-shock
shell-shocked
shell-worker
shelly pahoehoe
shelter belt
shelter cabin
shelter deck
shelter half
shelter pit
shelter tent
shelter trench
shelter under
shelter-deck vessel
sheltering trust
shelterwood method
shelving beach
shenk beer
shepherd dog
shepherd god
shepherd king
shepherd spider
shepherd's check
shepherd's dial
shepherd's dog
shepherd's needle
shepherd's pie
shepherd's pipe
shepherd's plaid
shepherd's purse
shepherd's staff
shepherd's weatherglass
shepherd's-purse
shepherd's-scabious
shepherd's-staff
sherbet powder
shere khan
sheriff court
sheriff depute
sheriff substitute
sheriff-pink
sherry brown
sherry cobbler
shetland pony
shetland sheepdog
shetland wool
shibuichi-doshi
shick-shack
shield arm
shield back
shield bearer
shield bud
shield budding
shield bug
shield cell
shield fern
shield fungus
shield grid
shield roots
shield wall
shield-back
shield-bearer
shield-bearing
shield-breaking
shield-fern
shield-headed
shield-leaved
shield-maiden
shield-scale fungus
shield-shaped
shield-tailed snake
shin-bone
shin-tangle
shindig dancer
shine a light
shine at
shine brightly
shine forth
shine in
shine out
shine through
shine up to
shine upon
shiner perch
shiner sea perch
shiner-up
shingle band
shingle bolt
shingle lap
shingle oak
shingle roof
shingle tree
shingle weaver
shingle-back
shining example
shining flycatcher
shining from shook foil
shining light
shining oat grass
shining willow
shiny-backed
ship ahoy
ship auger
ship biscuit
ship boat
ship borer
ship breaker
ship broker
ship canal
ship carpenter
ship carpentry
ship chandler
ship chandlery
ship control
ship decanter
ship fever
ship head
ship joiner
ship ladder
ship letter
ship money
ship news
ship oars
ship of state
ship of the desert
ship of the line
ship of war
ship out
ship part
ship pendulum
ship pound
ship railway
ship rat
ship rigger
ship room
ship route
ship splice
ship stuff
ship time
ship tire
ship writ
ship's biscuit
ship's boat
ship's boy
ship's carpenter
ship's company
ship's cooper
ship's husband
ship's log
ship's officer
ship's papers
ship's ropes
ship's service
ship's tailor
ship's watch
ship's writer
ship-chandler
ship-holder
ship-load
ship-minded
ship-minutely
ship-mindedness
ship-money
ship-of-war
ship-rigged
ship-shape
ship-shaped
ship-to-shore
ship-to-shore radio
shipboard interceptor
shipboard plane
shiplapped lumber
shipper fork
shipping articles
shipping center
shipping clerk
shipping commissioner
shipping fever
shipping mark
shipping master
shipping note
shipping office
shipping order
shipping pneumonia
shipping room
shipping ton
shipping-dry
shipplane carrier
shipshape and Bristol fashion
shire borough
shire day
shire ground
shire horse
shire knight
shire moot
shire reeve
shire town
shire-moot
shirley poppy
shirred eggs
shirt board
shirt dresser
shirt frame
shirt frill
shirt front
shirt ironer
shirt sleeve
shirt-dress
shirt-sleeve
shirt-sleeve diplomacy
shirt-sleeved
shirt-tail
shirtwaist dress
shirtwaist suit
shish kebab
shoot craps
shoot down
shoot down in flames
shoot for
shoot full of holes
shoot into space
shoot it out with
shoot off at an angle
shoot off your face
shoot off your mouth
shoot out
shoot out rays
shoot questions at
shoot straight
shoot straight with
shoot the breeze
shoot the bull
shoot the chutes
shoot the shit
shoot the sun
shoot the works
shoot through
shoot to death
shoot up
shoot your bolt
shoot your cookies
shoot-'em-up
shoot-off
shoot-out
shoot-root ratio
shoot-the-chutes
shooting board
shooting box
shooting brake
shooting coat
shooting fish
shooting gallery
shooting glove
shooting iron
shooting jacket
shooting lodge
shooting match
shooting pain
shooting range
shooting script
shooting star
shooting stick
shooting up
shooting war
shop around
shop assistant
shop at
shop bill
shop chairman
shop clerk
shop committee
shop complex
shop deputy
shop drawing
shop fitter
shop floor
shop lumber
shop paper
shop right
shop rivet
shop steward
shop-board
shop-made
shop-soiled
shop-window
shopping cart
shopping center
shopping centre
shopping complex
shopping goods
shopping mall
shopping plaza
shopping precinct
shopping spree
shore bird
shore boat
shore boulder
shore cod
shore cover
shore crab
shore dinner
shore fast
shore grape
shore grass
shore lark
shore leave
shore line
shore onion
shore party
shore patrol
shore pay
short of breath
short of cash
short of funds
short of luck
short of money
short of wind
short on looks
short order
short out
short pants
short particular meter
short period
short piece
short plate
short position
short range aid to navigation
short rations
short rib
short ribs
short sale
short score
short seller
short session
short short story
short shorts
short shrift
short side
short sight
short snorter
short spell
short splice
short step
short stock
short story
short subject
short suit
short supply
short sweetening
short temper
short time
short title
short ton
short up
short version
short vowel
short wave
short way
short weight
short wool
short-arm
short-arm balance
short-arm blow
short-armed
short-awned
short-barred
short-barreled
short-beaked
short-bearded
short-billed
short-bitten
short-bladed
short-bobbed
short-bodied
short-branched
short-bread
short-breasted
short-breathed
short-breathing
short-cake
short-celled
short-change
short-changed
short-changer
short-changing
short-chinned
short-circuit
short-circuiter
short-clawed
short-cloaked
short-commons
short-coupled
short-crested
short-cropped
short-crowned
short-cut
short-cycle
short-cycled
short-dated
short-day
short-distance
short-docked
short-drawn
short-eared
short-eared owl
short-extend
short-eyed
short-faced
short-fed
short-fingered
short-finned
short-footed
short-fruitied
short-grained
short-growing
short-hair
short-hair plume grass
short-haired
short-handed
short-handled
short-haul
short-headed
short-headedness
short-heelied
short-hop airline
short-horned
short-horned grasshopper
short-jointed
short-keeled
short-laid
short-landed
short-lasting
short-leaf
short-leaved
short-legged
short-limbed
short-lined
short-list
short-lived
short-livedness
short-living
short-long
short-lunged
short-made
short-manned
short-measured
short-mouthed
short-nailed
short-napped
short-necked
short-nighted
short-nosed
short-order
short-order cook
short-period comet
short-period variable
short-pitch
short-pitch winding
short-podded
short-pointed
short-quartered
short-range
short-run
short-running
short-set
short-shafted
short-shanked
short-shelled
short-shipped
short-short
short-shouldered
short-shucks
short-sighted
short-sightedness
short-skirted
short-sleeved
short-sleeved shirt
short-sloped
short-snouted
short-span
short-spined
short-spined sea scorpion
short-spired
short-spoken
short-spurred
short-staffed
short-stalked
short-staple
short-staple isinglass
short-statured
short-stemmed
short-stepped
short-stop
short-stop bath
short-story
short-story writer
short-story writing
short-styled
short-suiter
short-sword
short-tailed
short-tailed shrew
short-tempered
short-term
short-term bond
short-term loan
short-term memory
short-term note
short-termed
short-time
short-time rating
short-toed
short-tongued
short-toothed
short-trunked
short-trussed
short-twisted
short-waisted
short-wall machine
short-weight
short-weighter
short-winded
short-windedly
short-windedness
short-winged
short-witted
short-wool
short-wooled
short-wristed
shorten sail
shortened version
shortest way
shortfin corvina
shorthand typist
shortleaf pine
shortleaf yellow pine
shortness of breath
shortstop bath
shortwave antenna
shortwave band
shortwave broadcasting
shortwave diathermy
shortwave diathermy machine
shortwave radio
shortwave receiver
shortwave signal
shortwave station
shortwave transmitter
shot borer
shot bort
shot cartridge
shot corn
shot crossbow
shot drill
shot effect
shot garland
shot glass
shot hoist
shot hole
shot holing
shot hooks
shot in the arm
shot in the dark
shot in the locker
shot lighter
shot line
shot locker
shot metal
shot noise
shot plant
shot put
shot rope
shot samples
shot silk
shot through
shot to pieces
shot tongs
shot tower
shot-blasting
shot-clog
shot-free
shot-gun
shot-hole borer
shot-log
shot-peen
shot-put
shot-putter
shot-putting
shot-silk
shot-stifled
shotgun marriage
shotgun microphone
shotgun pattern
shotgun wedding
shotten down
should want
should-be
shoulder a gun
shoulder angle
shoulder arm
shoulder arms
shoulder bag
shoulder bar
shoulder belt
shoulder blade
shoulder block
shoulder board
shoulder bone
shoulder brace
shoulder clod
shoulder flash
shoulder girdle
shoulder gun
shoulder knot
shoulder loop
shoulder mark
shoulder note
shoulder pad
shoulder patch
shoulder point
shoulder screw
shoulder sleeve insignia
shoulder slip
shoulder strap
shoulder to shoulder
shoulder tuft
shoulder weapon
shoulder-blade
shoulder-bone
shoulder-clap
shoulder-clapper
shoulder-high
shoulder-hitter
shoulder-knot
shoulder-piece
shoulder-shotten
shoulder-strap
shouldered arch
shout at the top of your voice
shout defiance
shout down
shout from the housetops
shout hallelujah
shout hosanna
shout of laughter
shout out
shout song
shouting distance
shove aside
shove away
shove in your oar
shove off
shove the queer
shove-groat
shove-ha'penny
shove-halfpenny
shove-hapenny
shoved joint
shovel cultivator
shovel hat
shovel plow
shovel-beaked
shovel-bladed
shovel-board
shovel-footed
shovel-handed
shovel-hatted
shovel-headed
shovel-mouthed
shovel-nose
shovel-nosed
shovel-nosed duck
shovel-nosed ray
shovel-nosed shark
shovel-nosed sturgeon
shovel-shaped
shovelhead catfish
shovelhead shark
shovelnose sturgeon
shoving match
show a bold front
show a clean pair of heels
show a deficit
show a direction
show a lack of respect for
show a leg
show a light pair of heels
show a proper spirit
show a set
show a tendency
show a trend
show aptitude for
show bill
show biz
show box
show business
show card
show consideration
show copy
show dahlia
show disrespect for
show distaste for
show dog
show end
show expertise
show fight
show forth
show fragility
show geranium
show girl
show glass
show how
show improvement
show in the best colors
show its colors
show its face
show kindness to
show marks of age
show mercy
show no amazement
show no appetite
show no mercy
show of hands
show of joy
show off
show one's cards
show one's face
show palce
show pipe
show pity
show preference
show resentment
show respect
show respect for
show ring
show sensitivity
show signs of
show signs of life
show someone the door
show stone
show stopper
show sufficient grounds for
show tact
show talent for
show the door
show the gate
show the heels
show the way
show the white feather
show the white flag
show through
show trial
show up
show up late
show what you have
show window
show you your place
show your age
show your authority
show your cards
show your colors
show your face
show your hand
show your heels to
show your mind
show your teeth
show your true colors
show yourself
show-bread
show-me
show-off
show-offish
show-offy
show-through
show-worthy
shower bath
shower bouquet
shower curtain
shower down
shower down upon
shower head
shower room
shower stall
shower-bath
showing for all to see
showing forth
showing up
showing-off
shown up
showy crab apple
showy gaillardia
showy mentzelia
showy milkweed
showy orchis
showy portulaca
showy primrose
showy sunflower
showy-flowered
showy-leaved
shred of comfort
shred-pie
shrew mole
shrewd-brained
shrewd-headed
shrewd-looking
shrewd-pated
shrewd-tongued
shrewd-witted
shriek owl
shriek/owl
shriker father
shrike thrush
shrike tit
shirl sound
shirl-edged
shirl-gorged
shirl-toned
shirl-tongued
shirl-voiced
shrimp catcher
shrimp pink
shrimp red
shrink back
shrink fit
shrink from
shrink link
shrink rule
shrink-wrap
shrinkage fit
shrinkage rule
shrinkage stope
shrinking fit
shrinking head
shrinking violet
shrive yourself
shrive up
shriveled up
shroud knot
shroud line
shroud lines
shroud plate
shroud-laid
shrouded in darkness
shrouded in mystery
shrouded spirit
shrove monday
shrove sunday
shrove tuesday
shrove-tide
shroving time
shrub cinquefoil
shrub mallow
shrub oak
shrub steppe
shrub willow
shrub yellowroot
shrubby cinquefoil
shrug away
shrug it off
shrug off
shrug the shoulders
shrug your shoulders at
shuck off
shuck spray
shuck-bottom
shudder at
shudder of the flesh
shuffle along
shuffle off
shuffle off this mortal coil
shuffle on
shuffle out of
shuffle scale
shuffle the cards
shuffle-board
shun companionship
shun-pike
shunt circuit
shunt dynamo
shunt excitation
shunt field
shunt lamp
shunt lead
shunt motor
shunt valve
shunt winding
shunt-wound
shunting engine
shunting off
shut down
shut down on
shut fast
shut in
shut it down
shut mind
shut my mouth
shut of
shut of day
shut off
shut out
shut the door
shut the door in your face
shut the door to
shut the door upon
shut the eyes of your mind
shut the eyes to
shut tight
shut up
shut up shop
shut your bazoo
shut your doors
shut your ears
shut your eyes
shut your eyes to
shut your face
shut your mouth
shut your trap
shut yourself up
shut-away
shut-eye
shut-in
shut-in personality
shut-mouthed
shut-off
shut-out
shut-out bid
shut-up
shutter box
shutter dam
shutter speed
shutter weir
shutting post
shutting stile
shutting up
shutting-in
shuttle armature
shuttle bombing
shuttle bone
shuttle box
shuttle diplomacy
shuttle flights
shuttle loading
shuttle race
shuttle raid
shuttle rocket
shuttle service
shuttle shell
shuttle train
shuttle trip
shuttle winding
shuttle-core
shuttle-core magneto
shuttle-witted
shuttle-wound
shuttlecock-flower
shutur sowar
shy at
shy away
shy of
shy of belief
shy off
shy on
shy person
si quaeris peninsulam amo
si quis
siamese cat
siamese connection
siamese joint
siamese twin
sibber sauce
sibby bean
siberian brown
siberian husky
sic at
sic on
sic passim
sic semper tyrannis
sic transit gloria mundi
sicca rupee
sick abed
sick and tired of
sick as a dog
sick at heart
sick at the stomach
sick bay
sick berth
sick call
sick fancy
sick flag
sick headache
sick humor
sick in the head
sick joke
sick leave
sick list
sick market
sick mind
sick nurse
sick of
sick on each other
sick pay
sick person
sick to the stomach
sick to your stomach
sick unto death
sick up
sick-abed
sick-bed
sick-brained
sick-fallen
sick-feathered
sick-in
sick-list
sick-nurse
sick-nursish
sick-out
sick-pale
sick-thoughted
sicken at
sicken for
sicken of
sicken with
sickle bar
sickle bender
sickle cell
sickle cell anaemia
sickle cell anemia
sickle cell disease
sickle feather
sickle ham
sickle herb
sickle hock
sickle medick
sickle of Death
sickle senna
sickle thorn
sickle-billed
sickle-billed curlew
sickle-billed thrasher
sickle-cell
sickle-cell anemia
sickle-cell disease
sickle-grass
sickle-hammed
sickle-hocked
sickle-leaved
sickle-like
sickle-shaped
sickle-tailed
sickly hue
sickly-born
sickly-colored
sickly-looking
sickly-seeming
sickly-sweet
sickly-sweetness
sickness benefit
sickness insurance
sicut patribus sit Deus nobis
side action
side aisle
side arm
side arms
side ax
side band
side bar
side beam
side bench
side bet
side box
side boy
side brake
side by side
side cap
side car
side card
side chain
side chair
side chapel
side check
side chisel
side circuit
side cut
side cutting
side delivery
side dish
side door
side drum
side effect
side face
side frequency
side hatchet
side horse
side interest
side issue
side jointer
side keelson
side ladder
side lamp
side light
side line
side meat
side mirror
side oats
side of bacon
side of controversy
side partner
side path
side prime
side reaction
side remark
side road
side room
side scene
side sewing
side step
side stitch
side street
side suit
side table
side thread stitch
side whisker
side whiskers
side wire stitch
side with
side-bar
side-bar keel
side-valve engine
side-view
side-walk
side-wall
side-wheel
side-wheeler
side-whiskered
side-whiskers
side-wind
side-winded
side-winder
sidearm heater
sidelight castle
sidelight tower
sidelong look
sider-
siderating plague
sidereal clock
sidereal day
sidereal hour
sidereal hour angle
sidereal minute
sidereal month
sidereal second
sidereal time
sidereal universe
sidereal year
siderin yellow
sidero-
sidesaddle flower
sideslip landing
sidewalk artist
sidewalk bike
sidewalk door
sidewalk elevator
sidewalk salesman
sidewalk superintendent
sideward motion
siding tool
siding track
sidle up to
siege artillery
siege cannon
siege carriage
siege engine
siege gun
siege howitzer
siege mortar
siegfried line
sierra brownbark pine
sierra juniper
sierra plum
sierra redbark pine
sieva bean
sieve cell
sieve disk
sieve maker
sieve making
sieve out
sieve pit
sieve plate
sieve pore
sieve tissue
sieve tube
sieve vessel
sift out
sifting out
sigh for
sigh of relief
sigh-born
sighed-for
sight bill
sight draft
sight edge
sight for sore eyes
sight gag
sight land
sight line
sight on
sight point
sight reader
sight reading
sight rhyme
sight rule
sight screen
sight seeing trip
sight setter
sight unseen
sight vane
sight-feed
sight-hole
sight-read
sight-reader
sight-reading
sight-saver type
sight-see
sight-seeing
sight-seer
sight-shot
sight-unseen transaction
sighting angle
sighting hood
sighting shot
sightless eyes
sigma finite set
sigma particle
sigma-ring
sigmoid flexure
sign a petition
sign and seal
sign away
sign factor
sign for
sign in
sign language
sign manual
sign of aggregation
sign of the cross
sign of the three balls
sign of the times
sign of the zodiac
sign off
sign on
sign on the dotted line
sign out
sign over
sign painter
sign painting
sign up
sign up for
sign your death warrant
sign your note
sign-board
sign-manual
sign-off
sign-post
signal alarm
signal beacon
signal bell
signal board
signal box
signal corps
signal display
signal fades
signal fire
signal flag
signal flare
signal generator
signal gong
signal gun
signal halyard
signal lamp
signal lantern
signal light
signal lights
signal mast
signal modulation
signal multiplier
signal noise ratio
signal of distress
signal oil
signal post
signal red
signal relay
signal rocket
signal separator
signal service
signal shot
signal siren
signal squirter
signal tower
signal whistle
signal wire
signal-noise ratio
signal-to-noise ratio
signature loan
signature mark
signature tune
signed and sealed
signet ring
signet-ring
significance level
significant fact
significant figures
significant form
significate form
signify nothing
signifying nothing
signing on
signs manual
signs of the zodiac
silage cutter
silence cloth
silence of the grave
silence of the tomb
silent area
silent as a post
silent as a stone
silent as the grave
silent as the shadows
silent as the tomb
silent barter
silent butler
silent cataracts
silent chain
silent consent
silent discharge
silent film
silent majority
silent partner
silent poetry
silent prayer
silent service
silent trade
silent treatment
silic-
silica brick
silica gel
silica glass
silica ware
silicate cotton
silicate paint
silicated soap
silico-
silici-
silicic acid
silicified wood
silicium bronze
silico-
silicon bronze
silicon carbide
silicon controlled rectifier
silicon copper
silicon dioxide
silicon fluoride
silicon hydride
silicon nitrimide
silicon spiegel
silicon star
silicon steel
silicon tetrachloride
silicon tetraethyl
silicon tetrafluoride
silicone resin
silicone rubber
silk cotton
silk coverer
silk discharger
silk floss
silk fowl
silk gelatin
silk gland
silk glue
silk gown
silk grass
silk green
silk gum
silk hat
silk louse
silk mercer
silk mill
silk moth
silk muslin
silk oak
silk paper
silk plant
silk serge
silk snapper
silk spider
silk spinner
silk stocking
silk stockings
silk stretcher
silk tartan
silk tester
silk thrower
silk throwster
silk tree
silk vine
silk weaver
silk wire
silk-bark
silk-bark oak
silk-cotton
silk-cotton family
silk-cotton tree
silk-family
silk-gownsman
silk-hatted
silk-robbed
silk-screen
silk-screen artist
silk-screen printing
silk-screen process
silk-skirted
silk-soft
silk-stocking
silk-stocking district
silk-stocking politics
silk-stocking ward
silk-stockingged
silk-tail
silk-tassel tree
silk-winder
silken repose
silken-coated
silken-fastened
silken-leafed
silken-sailed
silken-sandaled
silken-shining
silken-soft
silken-threaded
silken-winged
silking machine
silkscreen process
silkworm gut
silkworm jaundice
silkworm moth
silkworm rot
silkworm seed
silky anteater
silky camellia
silky cornel
silky grass
silky oak
silky swallowwort
silky terrier
silky-barked
silky-black
silky-haired
silky-leaved
silky-looking
silky-smooth
silky-soft
silky-textured
silky-voiced
sill cock
sill course
sill floor
sill-like
silly Billy
silly about
silly ass
silly grin
silly over
silly season
silly smiles
silly-faced
silly-facedly
silly-shally
silo filler
silt grass
silt up
siluro-
silver age
silver bass
silver beard grass
silver bell
silver birch
silver bromide
silver cat
silver certificate
silver chloride
silver citrate
silver cord
silver cyanide
silver dollar
silver fir
silver fish
silver fizz
silver fluoride
silver foil
silver fox
silver frost
silver fulminate
silver gilt
silver grain
silver grass
silver gray
silver green
silver hair
silver hake
silver iodate
silver iodide
silver jenny
silver jubilee
silver king
silver kings
silver lace
silver lactate
silver lead
silver leaf
silver lining
silver maple
silver medal
silver mill
silver mine
silver miner
silver mining
silver morning-glory
silver nitrate
silver ore
silver oxide
silver paper
silver perch
silver plate
silver plater
silver plating
silver point
silver polish
silver powder
silver protein
silver queen
silver sage
silver salmon
silver salt
silver screen
silver smelter
silver spoon
silver standard
silver star medal
silver storm
silver thaw
silver threads among the gold
silver tin
silver tongue
silver vine
silver vitellin
silver wattle
silver wedding
silver wedding anniversary
silver white
silver-backed
silver-bar
silver-bar fish
silver-barked
silver-barred
silver-bearded
silver-bearing
silver-bell
silver-bell tree
silver-black
silver-bordered
silver-bright
silver-buskined
silver-chased
silver-chiming
silver-clasped
silver-clear
silver-coated
silver-coloured
silver-colored
silver-copper
silver-corded
silver-cupped
silver-eddied
silver-embroidered
silver-eye
silver-eyed
silver-eyes
silver-feathered
silver-fleeced
silver-flowing
silver-footed
silver-fork
silver-fronted
silver-glittering
silver-golden
silver-grained
silver-gray
silver-grey
silver-hafted
silver-haired
silver-handled
silver-headed
silver-lace vine
silver-laced
silver-lead
silver-leafed
silver-leaved
silver-leaved linden
silver-leaved nightshade
silver-lined
silver-mail
silver-melting
silver-mounted
silver-penciled
silver-plate
silver-plated
silver-plating
silver-print drawing
silver-producing
silver-rag
silver-rimmed
silver-shafted
silver-shedding
silver-shining
silver-smitten
silver-sounded
silver-sounding
silver-spangled
silver-spoon
silver-spoonism
silver-spotted
silver-streaming
silver-striped
silver-studded
silver-sweet
silver-swelling
silver-thread
silver-thread blight
silver-thrilling
silver-tipped
silver-toned
silver-tongue
silver-tongued
silver-tongued orator
silver-true
silver-tuned
silver-using
silver-voiced
silver-washed
silver-winged
silver-wiry
silver-work
silverberry family
silverleaf boree
silverleaf linden
silverleaf maple
silverleaf poplar
silverleaf redwood
silvertop palmetto
silverwing gray
silvery hair
silvery moon
silvi-
simblin cake
simchas torah
simian shelf
similar sound
similar sounding
similarity transformation
simile mark
similia similibus curantur
simmer down
simnel cake
simon legree
simon pure
simon-pure
simple Fink truss
simple algebra
simple algebraic extension
simple arc
simple as ABC
simple assault
simple chancre
simple circularity
simple closed curve
simple contract
simple diet
simple enumeration
simple equation
simple extension
simple fact
simple fraction
simple fracture
simple fruit
simple harmonic motion
simple honors
simple idea
simple inflammation
simple interest
simple interval
simple larceny
simple machine
simple majority
simple measure
simple microscope
simple motion
simple pole
simple protein
simple radical
simple reflex
simple sentence
simple soul
simple syrup
simple tense
simple time
simple transcendental extension
simple twist of the wrist
simple variable
simple vow
simple-armed
simple-faced
simple-headed
simple-hearted
simple-leaved
simple-life
simple-lifer
simple-mannered
simple-minded
simple-mindedly
simple-mindedness
simple-rooted
simple-seeming
simple-speaking
simple-stemmed
simple-toned
simple-tuned
simple-witted
simple-wittedness
simplex method
simplex telegraphy
simply and solely
simply connected
simply ordered
simply ordered set
simply-connected
simulated rank
simultaneous equations
sin against the Holy Ghost
sin eater
sin eating
sin money
sin of Adam
sin of commission
sin of omission
sin of pride
sin offering
sin rent
sin-absolved
sin-absolving
sin-afflicting
sin-black
sin-born
sin-bred
sin-burdened
sin-burthened
sin-chastising
sin-clouded
sin-concealing
sin-condemned
sin-consuming
sin-crushed
sin-drowned
sin-guilty
sin-indulging
sin-laden
sin-loving
sin-mortifying
sin-offering
sin-proud
sin-revenging
sin-sick
sin-sickness
sin-soiling
sin-sowed
sin-thralled
sin-washing
sin-wounded
sinay bean
since God knows when
since Hector was a pup
since days of yore
since long ago
since the world was made
since the world was young
since the year one
since time began
sincere friendship
sindbad the sailor
sine bar
sine curve
sine die
sine galvanometer
sine law
sine mechanism
sine prole
sine qua non
sine wave
sine-qua-nonical
sine-qua-noniness
sine-wave
sinew-backed
sinew-grown
sinew-shrunk
sinful act
sing a different tune
sing a familiar tune
sing deathless songs
sing in chorus
sing in the shrouds
sing out
sing praises
sing small
sing the blues
sing the praise of
sing the praises of
sing the same old song
sing the same old tune
sing your own praises
sing your praises
sing-in
sing-sing
sing-song
singhara nut
singing bird
singing book
singing bread
singing club
singing lesson
singing master
singing part
singing psalm
singing school
singing society
singing teacher
singing voice
single Spanish burton
single bed
single blessedness
single block
single bond
single combat
single condition
single crochet
single cut
single doubler
single entry
single file
single girl
single knot
single man
single messages
single microscope
single mordent
single out
single person
single purchase
single quotation marks
single quotes
single reed
single rhyme
single sap
single sculls
single shell
single sideband
single sideband transmission
single space
single standard
single state
single step rocket
single stitch
single system
single tackle
single tape
single tax
single taxer
single ticket
single transfer
single transferrable vote
single voice
single vote
single voting
single whip
single wicket
single wing
single wingback formation
single woman
single-acting
single-acting engine
single-action
single-action engine
single-bank
single-banked
single-barrel
single-barreled
single-barrelled
single-beat
single-bitted
single-blind
single-blossomed
single-bodied
single-branch
single-breasted
single-breasted jacket
single-breasted suit
single-button carbon microphone
single-capped
single-cell
single-celled
single-chamber
single-colored
single-combed
single-crested
single-crop
single-cross
single-current telegraphy
single-cut
single-cutting
single-cylinder
single-deck
single-decker
single-disk
single-dotted
single-driver
single-edged
single-end
single-ended
single-entry
single-entry accounting
single-entry bookkeeping
single-eyed
single-file
single-filed
single-finned
single-fire
single-flowered
single-foot
single-footer
single-framed
single-fringed
single-gear
single-grown
single-handed
single-handedly
single-handedness
single-hander
single-headed
single-hearted
single-heartedly
single-heartedness
single-hoofed
single-hooked
single-horned
single-horsed
single-hung
single-jet
single-layer
single-layered
single-leaded
single-leaf
single-leaf ash
single-leaved
single-lens reflex
single-letter
single-lever
single-light
single-line
single-living
single-loader
single-masted
single-measure
single-member
single-member constituency
single-member district
single-minded
single-mindedly
single-mindedness
single-motored
single-mouthed
single-name
single-name paper
single-nerved
single-pass
single-pen
single-phase
single-phase alternating current
single-phase motor
single-phaser
single-piece
single-pitched
single-plated
single-ply
single-pointed
single-pole
single-prop
single-punch
single-rail
single-reed
single-reed instrument
single-reefed
single-rivet
single-riveted
single-row
single-screw
single-seated
single-seater
single-seed
single-seed cucumber
single-seeded
single-shear
single-sheaved
single-shooting
single-shot
single-soled
single-space
single-speech
single-stage
single-stage rocket
single-step
single-stepped
single-stick
single-stitch
single-strand
single-strength
sink money in
sink of corruption
sink of iniquity
sink or swim
sink or swim with
sink your soul
sink-hole
sink-stone
sinker bar
sinker boat
sinker drill
sinker wood
sinkhole drainage
sinking bowl
sinking fund
sinking head
sinking heart
sinking speed
sinking stomach
sinking-fund
sinking-fund bond
sinking-fund payment
sinn fein
sino-
sino-tibetan
sinoatrial node
sinuate-leaved
sinuato-
sinumbra lamp
sinuos-
sinus arrhythmia
sinus band
sinus node
sinusoidal circuit
sinusoidal projection
siphon alga
siphon barometer
siphon bottle
siphon condenser
siphon cup
siphon gauge
siphon off
siphon recorder
siphon slide
siphon spillway
siphono-
sir-reverence
sirdar bearer
sire-found
siren song
sirloin steak
sirup sorghum
sisal hemp
siskin parrot
sissy-pants
sister block
sister cell
sister fold
sister hook
sister keelson
sister rib
sister ship
sister-german
sister-in-law
sister-wife
sisters under the skin
sit around
sit at
sit at the feet of
sit back
sit bolt upright
sit by
sit down
sit down at the bargaining table
sit down on
sit down together
sit down with
sit in
sit in for
sit in judgment
sit in on
sit it out
sit on
sit on a barrel of gunpowder
sit on the dais
sit on the fence
sit on the sidelines
sit on the tail of
sit on the throne
sit on your ass
sit on your butt
sit on your duff
sit on your hands
sit out
sit over
sit pretty
sit shibah
sit tight
sit under
sit up
sit up and take notice
sit up for
sit upon
sit upon thorns
sit well with one
sit well with you
sit-down
sit-down strike
sit-downer
sit-fast
sit-in
sit-up
sit-upon
sitdown striker
site development
site land
 sitio-
sitka spruce
sito-
sitter-by
sitter-in
sitter-out
sitting day
sitting duck
sitting height
sitting place
sitting room
sitting shot
sitting tenant
sitting trot
situation comedy
situation ethics
situational neurosis
situational psychosis
situs inversus
sitz bath
siva snake
siva-siva
siwash sweater
six and two threes
six feet above contradiction
six feet under
six o’clock
six point
six ways from Sunday
six-acre
six-angled
six-arched
six-banded
six-bar
six-barred
six-barreled
six-bottle
six-by-six
six-canted
six-cent
six-chambered
six-colored
six-cornered
six-coupled
six-course
six-cut
six-cylinder
six-cylindred
six-day
six-dollar
six-eared
six-edged
six-eight
six-eight time
six-ell
six-eyed
six-faced
six-figure income
six-figured
six-fingered
six-flowered
six-foiled
six-foot
six-footed
six-footer
six-gallon
six-gated
six-gilled
six-gilled shark
six-grain
six-gram
six-gun
six-headed
six-hoofed
six-horse
six-hour
six-inch
six-jointed
six-leaved
six-legged
six-letter
six-lettered
six-lined
six-lobed
six-masted
six-master
six-mile
six-minute
six-mouth
six-o-six
six-oared
six-oclock
six-ounce
six-pack
six-part time
six-petaled
six-phase
six-plumed
six-ply
six-pointed
six-pointed star
six-pot
six-pound
six-pounder
six-ranked
six-rayed
six-ribbed
six-room
six-roomed
six-rowed
six-second
six-shafted
six-shared
six-shilling
six-shooter
six-sided
six-spined
six-spot
six-spotted
six-storied
six-story
six-stringed
six-striped
six-syllable
sixty-six
sixty-sixth
sixty-third
sixty-three
sixty-two
size bone
size roll
size stick
size up
size up your measure
sizer die
sizer tap
sizing tool
sizing up
sizzling heat
sizzling hot
skate on thin ice
skate over
skate sailing
skating rink
skean dhu
skee-ball
skeel duck
skeel goose
skeeling goose
skeen arch
skeet shooting
skeleto-
skeleton at the feast
skeleton clock
skeleton company
skeleton construction
skeleton dance
skeleton drill
skeleton girder
skeleton in the closet
skeleton in the cupboard
skeleton key
skeleton leaf
skeleton movement
skeleton pattern
skeleton proof
skeleton regiment
skeleton shrimp
skeleton suit
skelic index
skelpie-limmer
skene arch
skene dhu
sketch book
sketch map
sketch out
sketch plan
sketch plate
sketch-book
skew arch
skew chisel
skew distribution
skew field
skew polygon
skew putt
skew table
skew-back
skew-gee
skew-jawed
skew-symmetric
skewed judgment
skewer-up
ski boot
ski boots
ski bum
ski jacket
ski jump
ski landing gear
ski lift
ski pants
ski pole
ski run
ski stick
ski suit
ski sweater
ski tow
ski troops
ski wax
ski-jumping
ski-plane
skia-
skid box
skid chain
skid engine
skid fin
skid landing gear
skid platform
skid road
skid row
skid to a stop
skid-row bum
skidding hooks
skidding sled
skidding trail
skiffle band
skill facet
skill with language
skill with words
skill-less
skill-lessness
skilled hand
skilled in
skilled laborer
skilled workman
skillet chopper
skim coat
skim colter
skim gate
skim milk
skim off
skim over
skim the surface
skim through
skim-coulter
skim-milk
skimble-scamble
skimble-skamble
skimmed milk
skimmer cake
skimmer gate
skimmer scoop
skimming back
skimming dish
skimming gate
skimming-dish
skimmington ride
skimper-scamper
skin alive
skin and bones
skin beetle
skin boat
skin book
skin cancer
skin coat
skin color
skin coloring
skin disease
skin dive
skin diver
skin diving
skin effect
skin eruption
skin flick
skin food
skin friction
skin friction drag
skin game
skin graft
skin grafting
skin layer
skin man
skin mark
skin nose
skin out
skin planing
skin resistance
skin spot
skin test
skin tone
skin wool
skin-breaking
skin-built
skin-clad
skin-clipping
skin-deep
skin-devouring
skin-dive
skin-dived
skin-diver
skin-diving
skin-dove
skin-peeled
skin-piercing
skin-plastering
skin-pop
skin-popping
skin-shifter
skin-spread
skin-testing
skin-tight
skinned alive
skinning alive
skinning knife
skinning loam
skiny as a lath
skiny as a rail
skinny dip
skinny dipper
skinny-dip
skinny-dipped
skinny-dipper
skinny-dipping
skinny-dipt
skinny-necked
skip bail
skip bomb
skip bridge
skip car
skip distance
skip elevator
skip for joy
skip hoist
skip it
skip numbering
skip off
skip out
skip over
skip rope
skip straight
skip through
skip tracer
skip zone
skip-bomb
skip-bombing
skip-kennel
skipjack pike
skipjack tuna
skipping rope
skipping-robe
skirmish drill
skirmish line
skirt cassock
skirt chaser
skirt dance
skirt dancer
skirt marker
skirt of tasses
skirt the shore
skirt-dancer
skirting board
skirting table
skirting-board
skittle alley
skittle ball
skittle out
skittle pool
skittle pot
skittle-shaped
skivvy shirt
skookum-house
skrim shander
skua gull
skulk away
skull and crossbones
skull cracker
skull practice
skull session
skull-built
skull-cap
skull-covered
skull-crowned
skull-dividing
skull-hunting
skull-less
skull-like
skull-lined
skullcap speedwell
skunk bear
skunk bird
skunk blackbird
skunk cabbage
skunk currant
skunk grape
skunk mushroom
skunk plant
skunk porpoise
skunk spruce
skunk turtle
skunk-drunk
skunk-headed
skunkhead coot
sky advertising
sky an oar
sky atlas
sky blue
sky compass
sky cover
sky dive
sky diver
sky diving
sky drain
sky farmer
sky gazer
sky gray
sky hooker
sky iron
sky line
sky map
sky marker
sky parlor
sky pilot
sky pipit
sky screen
sky shade
sky sign
sky train
sky truck
sky wave
sky-aspiring
sky-blasted
sky-blue
sky-blue pink
sky-born
sky-bred
sky-capped
sky-cast
sky-clad
sky-clear
sky-cleaving
sky-climbing
sky-color
sky-colored
sky-dive
sky-diving
sky-dome
sky-dyed
sky-elephant
sky-engendered
sky-facer
sky-falling
sky-gazer
sky-god
sky-high
sky-kissing
sky-line
sky-line logging
sky-measuring
sky-planted
sky-reaching
sky-rending
sky-responding
sky-rocket
sky-ruling
sky-sail
sky-scaling
sky-scraping
sky-scraped
sky-sign
sky-throned
sky-tinctured
sky-touching
sky-worn
skye terrier
skyhook balloon
skysail mast
skysail pole
skysail yard
skysail-yarder
slab bridge
slab dashing
slab house
slab line
slab mill
slab pahoehoe
slab plastering
slab reef
slab tie
slab top
slab-sided
slab-sidedly
slab-sidedness
slabbing cutter
slabbing machine
slabbing mill
slack back
slack barrel
slack coal
slack cooperage
slack filling
slack jaw
slack off
slack purse strings
slack suit
slack up
slack water
slack-bake
slack-baked
slack-filled
slack-jawed
slack-laid
slack-off
slack-rope
slack-rope artist
slack-salted
slack-spined
slack-twisted
slack-up
slack-water
slag cement
slag concrete
slag down
slag furnace
slag heap
slag hearth
slag sand
slag wool
slag-hearth
slag-lead
slag-tap furnace
slagging furnace
slagging hole
slake trough
slake your thirst
slaked lime
slam bidding
slam into
slam the door in your face
slam-bang
slamming stile
slang dictionary
slang-whang
slang-whanger
slanging match
slant across
slant culture
slant dam
slant front
slant height
slant of wind
slant rhyme
slant-eye
slant-eyed
slant-top
slanting hand
slap a tax on
slap around
slap at
slap dashing
slap down
slap in the face
slap in the middle
slap of the glove
slap on
slap on paint
slap on the wrist
slap plastering
slap the face
slap the lid on
slap up
slap you in the face
slap your face
slap-bang
slap-bang shop
slap-dab
slap-dash
slap-sided
slap-slap
slap-up
slapstick comedian
slapstick comedy
slapstick humor
slapstick quality
slash across
slash bar
slash mark
slash pine
slash pocket
slash the throat
slash-grain
slash-saw
slash-sawed
slash-sawing
slash-sawn
slat bonnet
slat sign
slat-back
slate ax
slate bed
slate black
slate blue
slate cement
slate clay
slate galiot
slate gray
slate green
slate olive
slate pencil
slate picker
slate purple
slate roof
slate spar
slate splitter
slate writer
slate writing
slate-beveling
slate-brown
slate-color
slate-colored
slate-colour
slate-cutting
slate-formed
slate-pencil
slate-spired
slate-strewn
slate-trimming
slate-violet
slaughter pen
slaughter tree
slaughter-breathing
slaughter-dealing
slaughter-house
slaughter-threatening
slave ant
slave broker
slave clock
slave cylinder
slave dealer
slave dealing
slave driver
slave fork
slave hunt
slave hunter
slave hunting
slave labor
slave labor camp
slave maker
slave market
slave ship
slave song
slave state
slave trade
slave trader
slave trading
sleep like a top
sleep like the dead
sleep movement
sleep movements
sleep of the just
sleep off
sleep on
sleep on a volcano
sleep out
sleep soundly
sleep talker
sleep talking
sleep together
sleep treatment
sleep upon
sleep with
sleep with one eye open
sleep with the Lord
sleep with your ancestors
sleep with your fathers
sleep-at-noon
sleep-bedaeafened
sleep-bringer
sleep-bringing
sleep-causing
sleep-compelling
sleep-created
sleep-desiring
sleep-dewed
sleep-dispelling
sleep-disturbing
sleep-drowned
sleep-drunk
sleep-enthralled
sleep-fatted
sleep-fearing
sleep-filled
sleep-heavy
sleep-in
sleep-inducer
sleep-inducing
sleep-inviting
sleep-loving
sleep-procuring
sleep-producer
sleep-producing
sleep-provoker
sleep-provoking
sleep-resisting
sleep-soothing
sleep-stuff
sleep-swollen
sleep-tempting
sleep-walker
sleeper goby
sleeper shark
sleeping around
sleeping bag
sleeping beauty
sleeping car
sleeping carriage
sleeping chair
sleeping disease
sleeping draught
sleeping fire
sleeping partner
sleeping pill
sleeping place
sleeping policeman
sleeping porch
sleeping rent
sleeping room
sleeping sickness
sleeping suit
sleeping table
sleeping together
sleeping with
sleepless eye
sleepy Dick
sleepy disease
sleepy sickness
sleepy-acting
sleepy-eyed
sleepy-eyes
sleepy-headed
sleepy-headedness
sleepy-looking
sleepy-souled
sleepy-sounding
sleepy-voiced
sleet wheel
sleeve axle
sleeve board
sleeve brick
sleeve button
sleeve dog
sleeve link
sleeve links
sleeve nut
sleeve target
sleeve valve
sleeve waistcoat
sleeve-defended
sleeve-hidden
sleigh bed
sleigh bell
sleigh bells
sleigh cutter
sleight of hand
sleight-of-hand
sleight-of-hand artist
sleight-of-hand performer
sleight-of-hand trick
slender as a thread
slender blind snake
slender blue flag
slender loris
slender means
slender-ankled
slender-armed
slender-beaked
slender-billed
slender-bladed
slender-bodied
slender-branched
slender-fingered
slender-finned
slender-flanked
slender-flowered
slender-footed
slender-hipped
slender-jawed
slender-jointed
slender-leaved
slender-legged
slender-limbed
slender-looking
slender-muzzled
slender-nosed
slender-podded
slender-shafted
slender-shouldered
slender-spiked
slender-stalked
slender-stemmed
slender-striped
slender-tailed
slender-toed
slender-trunked
slender-waisted
slender-witted
slenderness ratio
sleuth-hound
slew rope
slew-eyed
slibber-sauce
slice bar
slice galley
slice of life
slice the melon
slice the pie
slice up
slick as a whistle
slick chick
slick citizen
slick down
slick magazine
slick on
slick stone
slick up
slick-ear
slick-faced
slick-haired
slick-looking
slick-spoken
slick-talking
slick-tongued
sliked up
sliker hat
slide back
slide bar
slide block
slide box
slide bridge
slide caliper
slide down
slide fastener
slide film
slide into
slide knot
slide lathe
slide off
slight-esteemed
slight-informed
slight-limbed
slight-looking
slight-made
slight-natured
slight-seeming
slight-shaded
slight-timbered
slim chance
slim down
slim pickings
slim-ankled
slim-built
slim-jim
slim-leaved
slim-limbed
slim-shanked
slim-spired
slim-trunked
slim-waisted
slime eel
slime flux
slime fungus
slime mold
slime mould
slime pit
slime table
slime thickening
slime-begotten
slime-browned
slime-coated
slime-filled
slime-secreting
slime-washed
slimy-backed
sling at
sling cart
sling chair
sling dog
sling hash
sling off
sling psychrometer
sling pump
sling rope
sling stay
sling strap
sling the lead
sling thermometer
sling trot
sling unloader
sling-
slinger ring
slink butcher
slink in
slink lamb
slink off
slip 'twixt cup and lip
slip a cog
slip away
slip back
slip by
slip carriage
slip cheese
slip cloth
slip clutch
slip coach
slip coupling
slip cover
slip curd
slip dock
slip down
slip friction
slip friction clutch
slip gauge
slip glaze
slip grab
slip hook
slip in
slip indicator
slip into
slip jaw
slip joint
slip key
slip kiln
slip knot
slip line
slip mortise
slip noose
slip of the pen
slip of the tongue
slip off
slip on
slip one over on
slip out
slip out of
slip over
slip panel
slip proof
slip rail
slip regulator
slip ring
slip road
slip rope
slip seat
slip shackle
slip share
slip sheet
slip sill
slip skid
slip something over on
slip spring
slip stem
slip stitch
slip stopper
slip stream
slip switch
slip tap
slip the
slip the cable
slip the collar
slip the memory
slip through
slip through your fingers
slip through your hands
slip tongue
slip up
slip ware
slip washer
slip wool
slip you a Mickey
slip you a Mickey Finn
slip your cable
slip your mind
slip-
slip-along
slip-knot
slip-on
slip-rail
slip-ring
slip-sheet
slip-shelled
slip-shoe
slip-skin
slit pocket
slit skirt
slit tapestry
slit trench
slit-drum
slit-eared
slit-eyed
slit-footed
slit-nosed
slit-shaped
slither off
slitting file
slitting machine
slitting saw
slitting shears
sliver box
slob ice
slob land
slobber over
slobber-chops
slocking stone
sloe gin
sloe plum
sloe thorn
sloe-black
sloe-blue
sloe-colored
sloe-eyed
slog away
slog on
sloop of war
sloop rig
sloop yacht
sloop-rigged
slop around
slop basin
slop hook
slop bowl
slop chest
slop chute
slop cloth
slop dealer
slop frock
slop hand
slop jar
slop man
slop merchant
slop molding
slop on paint
slop out
slop over
slop padding
slop pail
slop room
slop sink
slop-built
slop-molded
slop-over
slop-seller
slop-shop
slop-work
slope arms
slope culture
slope form
slope up
slope-
slope-browed
slope- eared
slope-edged
slope-faced
slope-lettered
slope-roofed
slope-sided
slope-toothed
slope-walled
sloping downward
sloping upward
sloppy Joe
sloppy joe
slosh wheel
slot and filler
slot burner
slot conveyer
slot driller
slot file
slot machine
slot man
slot mortise
slot rail
slot washer
slot winding
slot-boring
slot-drill
slot-drilling
slot-drilling machine
slot-headed
slot-spike
sloth animalcule
sloth bear
sloth monkey
sloth tree
slotting auger
slotting drill
slotting end mill
slotting file
slotting machine
slouch around
slouch hat
slough bass
slough grass
slough ice
slough of despond
slough off
slough over
slovenly performance
slow ahead
slow and careful steps
slow as death
slow as molasses
slow as slow
slow astern
slow burn
slow coach
slow down
slow goer
slow handclap
slow loris
slow march
slow market
slow match
slow motion
slow neutron
slow off the mark
slow person
slow pile
slow starter
slow time
slow to
slow to act
slow to commit yourself
slow to make your move
slow up
slow-back
slow-belly
slow-blooded
slow-breathed
slow-breathing
slow-breeding
slow-burning
slow-circling
slow-coach
slow-combustion
slow-conceited
slow-consuming age
slow-contact
slow-crawling
slow-creeping
slow-developed
slow-drawing
slow-drawn
slow-driving
slow-ebbing
slow-endevoring
slow-extinguished
slow-eyed
slow-fingered
slow-foot
slow-footed
slow-gaited
slow-going
slow-growing
slow-legged
slow-march
slow-mettled
slow-motion
slow-moving
slow-paced
slow-poky
slow-run
slow-running
slow-sailing
slow-speaking
slow-speeched
slow-spirited
slow-spoken
slow-stepped
slow-sudden
slow-sure
slow-thinking
slow-time
slow-tongued
slow-tuned
slow-up
slow-winged
slow-witted
slow-wittedness
slow-worm
slowed down
slower than the seven-year itch
slowing down
slowness to act
slubber de gullion
slubber over
slubbing billy
slubbing machine
sludge acid
slue rope
slue-footed
slug caterpillar
slug horn
slug snail
slug worm
slug-a-bed
slug-abed
slug-horn
slug-worm
slugging average
slugging machine
slugging match
slugging percentage
sluice box
sluice gate
sluice out
sluice valve
slum clearance
slum-dwellers
slumber party
slumber-bound
slumber-bringing
slumber-closing
slumber-loving
slumber-seeking
slumber-wrapt
slump cone
slump down
slump test
slung shot
slur over
slurp up
slush casting
slush fund
slush lamp
slush-cast
slushing oil
slut's wool
sly dog
sly grog
sly look
sly suggestion
sly-boots
sly-eyed
sly-goose
sly-grog
sly-looking
sly-tongued
sma-boukit
smack boat
smack in the middle
smack into
smack of
smack the lips
smack your lips
smack-dab
smack-dab in the middle
smacking of
small ale
small amount
small arm
small arms
small beer
small boat
small bond
small bower
small boy
small burgh
small business
small businessman
small calorie
small cane
small cap
small capital
small chance
small change
small chop
small circle
small claims court
small clothes
small coal
small cranberry
small debt
small end
small fry
small game
small goods
small ham
small honeysuckle
small hope
small hours
small intestine
small letter
small matter
small number
small octave
small pastern bone
small pica
small place
small potato
small potatoes
small price tag
small print
small royal
small screen
small share
small signal hybrid open circuit
small signal open circuit
small signal short circuit
small slam
small space
small stores
small stuff
small talk
small time
small tradesmen
small voice
small woodbine
small years
small-acred
small-ankled
small-arm
small-armed
small-arms
small-beer
small-billed
small-boat
small-bodied
small-boned
small-bore
going-into-
small-boys
going-into-
small-brained
going-into-
small-caliber
going-into-
small-celled
going-into-
small-claims court
going-into-
small-clawed
going-into-
small-clothes
going-into-
small-college
going-into-
small-colleger
going-into-
small-cornered
going-into-
small-craft warning
going-into-
small-crowned
going-into-
small-debts court
going-into-
small-diameter
going-into-
small-drink
going-into-
small-eared
going-into-
small-eyed
going-into-
small-faced
going-into-
small-feed
going-into-
small-finned
going-into-
small-flowered
going-into-
small-footed
going-into-
small-framed
going-into-
small-fruited
going-into-
small-fry
going-into-
small-grain
going-into-
small-grained
going-into-
small-habited
going-into-
small-handed
going-into-
small-headed
going-into-
small-hipped
going-into-
small-horned
going-into-
small-jointed
going-into-
small-leaved
going-into-
small-letter
going-into-
small-lettered
going-into-
small-limbed
going-into-
small-looking
going-into-
small-lunged
going-into-
small-minded
going-into-
small-mindedly
going-into-
small-mindedness
going-into-
small-nailed
going-into-
small-natured
going-into-
small-paneled
going-into-
small-paper
smart set
smart-aleck
smart-aleckiness
smart-alecky
smart-ass
smart-built
smart-cocked
smart-dressing
smart-looking
smart-money
smart-spoken
smart-stinging
smart-talking
smart-tongued
smart-witted
smarten up
smarty-pants
smash all opposition
smash hit
smash in
smash into
smash piecer
smash the atom
smash up
smash-and-grab
smash-up
smashboard signal
smasher hammer
smasher hat
smashing defeat
smashing machine
smattering of ignorance
smattering of knowledge
smear campaign
smear culture
smear dab
smear dock
smear on
smear test
smear ware
smear word
smear-dab
smear-sheet
smegma bacillus
smell a rat
smell around
smell bad
smell good
smell in the wind
smell of
smell of decay
smell of the lamp
smell out
smell sweet
smell to heaven
smell to high heaven
smell up
smell-feast
smell-less
smell-lessness
smell-smock
smeller-out
smelling bottle
smelling salts
smelling-stick
smelt-
smick-smack
smick-smock
smiddy-leaves
smilax family
smile at
smile brightly
smile of recognition
smile upon
smile-covering
smile-frowning
smile-tuned
smile-wreathed
smileage book
smiled-out
smiles of fortune
smiling reception
smiling sleep
smiling wakerobin
smite hip and thigh
smithing coal
smithy coal
smiting line
smitten with
smitten with death
smock frock
smock marriage
smock mill
smock windmill
smock-faced
smock-frock
smoke-consuming
smoke-consumptive
smoke-cure
smoke-curing
smoke-dried
smoke-dry
smoke-drying
smoke-dyed
smoke-eater
smoke-eating
smoke-enrolled
smoke-exhaling
smoke-filled
smoke-filled room
smoke-gray
smoke-grimed
smoke-hole
smoke-jack
smoke-laden
smoke-oh
smoke-paint
smoke-pennoned
smoke-preventing
smoke-preventive
smoke-selling
smoke-smothered
smoke-sodden
smoke-stack
smoke-stained
smoke-torn
smoke-vomiting
smoke-wreathed
smoke-yellow
smoked glass
smoked glasses
smoked herring
smoked rubber
smokeless powder
smokeless powder rocket
smokeless zone
smoking bean
smoking car
smoking compartment
smoking concert
smoking duck
smoking habit
smoking hot
smoking jacket
smoking lamp
smoking opium
smoking room
smoking stand
smoking tobacco
smoking-concert
smoking-room
smoky quartz
smoky topaz
smoky-bearded
smoky-blue
smoky-colored
smoky-flavored
smoky-looking
smoky-smelling
smoky-tinted
smoky-waving
smoldering fire
smoot hole
smooth as a baby’s ass
smooth as a billiard ball
smooth as glass
smooth bore
smooth breathing
smooth citizen
smooth coat
smooth down
smooth flounder
smooth hound
smooth it over
smooth muscle
smooth out
smooth over
smooth plane
smooth road
smooth sailing
smooth snake
smooth sumac
smooth surface
smooth talker
smooth temper
smooth the path
smooth the road
smooth the ruffled brow of care
smooth the way
smooth the way for
smooth wine
smooth winterberry
smooth your feathers
smooth your ruffled
smooth-ankled
smooth-barked
smooth-bedded
smooth-bellied
smooth-bodied
smooth-browed
smooth-cast
smooth-cheeked
smooth-chinned
smooth-clouded
smooth-coated
smooth-coil
smooth-combed
smooth-core
smooth-crested
smooth-cut
smooth-dittied
smooth-edged
smooth-face
smooth-faced
smooth-famed
smooth-fibered
smooth-finned
smooth-flowing
smooth-foreheaded
smooth-fronted
smooth-fruited
smooth-gliding
smooth-going
smooth-grained
smooth-haired
smooth-handed
smooth-headed
smooth-hewn
smooth-leaved
smooth-legged
smooth-limbed
smooth-looking
smooth-necked
smooth-nosed
smooth-paced
smooth-plastered
smooth-podded
smooth-polished
smooth-riding
smooth-rimmed
smooth-rinded
smooth-rubbed
smooth-running
smooth-sculptured
smooth-shaven
smooth-sided
smooth-skinned
smooth-sliding
smooth-soothing
smooth-sounding
smooth-speaking
smooth-spoken
smooth-stalked
smooth-stemmed
smooth-surfaced
smooth-tailed
smooth-taper
smooth-taper drift
smooth-tempered
smooth-textured
smooth-tined
smooth-tired
smooth-tongued
smooth-voiced
smooth-walled
smooth-winding
smooth-winged
smooth-working
smooth-woven
smooth-writing
smooth-wrought
smoothback flounder
smoothbore gun
smoothbore weapon
smoothed out
smoother-over
smoothhound shark
smoothing box
smoothing iron
smoothing mill
smoothing of the way
smoothing plane
smother crop
smother fire
smother fly
smother-kiln
smothered mate
smudge fire
smudge pot
smug-faced
smug-looking
smug-skinned
smuggle in
smuggled goods
smut ball
smut fungus
smut gall
smut grass
smut mill
smut-free
smutty-faced
smutty-nosed
smutty-yellow
snack bar
snack stool
snack table
snaffle bit
snaffle-bridled
snaffle-mouthed
snaffle-reined
snag boat
snag tooth
snag tree
snaggle-toothed
snail bore
snail borer
snail cloud
snail clover
snail countersink
snail fever
snail horn
snail medic
snail plant
snail shell
snail trefoil
snail wheel
snail's pace
snail-horned
snail-like
snail-likeness
snail-paced
snail-seed
snail-shell
snail-slow
snake bearer
snake-drawn
snake-eater
snake-eating
snake-encircled
snake-engirdled
snake-eyed
snake-goddess
snake-grass
snake-haired
snake-headed
snake-hipped
snake-killing
snake-like
snake-milk
snake-necked
snake-plantain
snake-set
snake-shaped
snake-skin
snake-tressed
snake-wanded
snake-weed
snake-wigged
snake-winged
snake-wood
snakebite remedy
snakehead mullet
snakemouth pogonia
snakes and ladders
snakes in the boots
snaky-eyed
snaky-haired
snaky-handed
snaky-headed
snaky-paced
snaky-sparkling
snaky-tailed
snaky-wreathed
snap at
snap back
snap bean
snap beetle
snap brim
snap bug
snap cap
snap catch
snap clutch
snap decision
snap fastener
snap flask
snap gauge
snap header
snap hook
snap judgment
snap link
snap lock
snap machine
snap molder
snap molding
snap out
snap out of it
snap point
snap ring
snap roll
snap shooter
snap shooting
snap shot
snap switch
snap table
snap the thread
snap the whip
snap to it
snap tool
snap turtle
snap up
snap vote
snap willow
snap your fingers
snap your fingers at
snap your head off
snap your nose off
snap-
snap-apple
snap-brim
snap-brim hat
snap-brimmed
snap-finger
snap-hook
snap-on
snap-rivet
snap-roll
snap-shot
snap-top
snap-top table
snaphead rivet
snapper up
snow insect
snow job
snow knife
snow leopard
snow light
snow lily
snow limit
snow line
snow mold
snow mosquito
snow mouse
snow one under
snow owl
snow panther
snow partridge
snow pea
snow peak
snow pear
snow pellets
snow pheasant
snow pigeon
snow plant
snow plume
snow poppy
snow pudding
snow quail
snow rack
snow roller
snow rose
snow rosette
snow scale
snow sheen
snow sleep
snow slope
snow slush
snow smoke
snow snake
snow squall
snow stake
snow stream
snow tire
snow track
snow train
snow tree
snow trillium
snow tyre
snow under
snow vine
snow vole
snow water
snow white
snow wreath
snow-barricaded
snow-bearded
snow-beaten
snow-beater
snow-besprinkled
snow-blanketed
snow-blind
snow-blinded
snow-blowen
snow-bright
snow-brilliant
snow-broth
snow-capped
snow-casting
snow-choked
snow-clad
snow-clearing
snow-climbing
snow-cold
snow-colored
snow-covered
snow-crested
snow-crowned
snow-crystal
snow-deep
snow-drifted
snow-driven
snow-dropping
snow-drowned
snow-encircled
snow-fair
snow-feathered
snow-fed
snow-haered
snow-hung
snow-in-summer
snow-laden
snow-limbed
snow-line
snow-lined
snow-loaded
snow-man
snow-mantled
snow-mantled
snow-melting
snow-molded
snow-nodding
snow-on-the-mountain
snow-plough
snow-pure
snow-resembled
snow-rigged
snow-robed
snow-rubbing
snow-scarred
snow-slip
snow-soft
snow-sprinkled
snow-still
snow-swathe
snow-sweeping
snow-thrower
snow-tipped
snow-topped
snow-white
snow-whitened
snow-whiteness
snow-winged
snow-wrought
snowball bush
snowball tree
snowclad peak
snowdrop anemone
snowdrop tree
snowdrop windflower
snowed-in
snowflower tree
snows of yesteryear
snowshoe hare
snowshoe rabbit
snowy egret
snowy owl
snowy-banded
snowy-bosomed
snowy-capped
snowy-countenanced
snowy-fleeced
snowy-flowered
snowy-headed
snowy-vested
snowy-winged
snub line
snub post
snub-
snub-nosed
snubbing post
snuff bottle
snuff brown
snuff brush
snuff color
snuff dipper
snuff dipping
snuff in
snuff it
snuff maker
snuff mill
snuff mull
snuff out
snuff paper
snuff shop
snuff stick
snuff swab
snuff up
snuff-box
snuff-clad
snuff-colored
snuff-headed
snuff-stained
snuff-taking
snuff-using
snuffbox bean
snuffbox fern
snuffing out
snug as a bug in a rug
snug down
snug harbor
snug together
snug up
snuggle up to
so as
so as to
so be it
so big
so bold
so cold you could spit ice cubes
so far
so far as
so far as you can
so far so good
so forget yourself
so help me
so is it
so it is
so long
so long as
so long as it's red
so many
so mote it be
so much
so much as
so much for that
so shall it be
so so
so that
so to say
so to speak
so very much
so what
so what else is new
so-and-so
so-and-sos
so-called
so-caused
so-conditioned
so-considered
so-designated
so-fa syllables
so-formed
so-forth
so-ho
so-instructed
so-like
so-named
so-regarded
so-seeming
so-so
so-soish
so-styled
so-termed
so-titled
so-wise
soak Austral
soak hole
soak in
soak up
soaking furnace
soaking pit
soaking rain
soaking through
soaking wet
soaking-up
soap apple
soap ashes
soap box
soap box derby
soap brick
soap bubble
soap bulb
soap copper
soap dish
soap earth
soap flakes
soap fruit
soap gentian
soap nut
soap opera
soap orange
soap pad
soap plant
soap pod
soap powder
soap stone
soap test
soap the ways
soap tree
soap-boiler
soap-bubble
soap-fast
soap-maker
soapbark tree
soapberry family
soapberry tree
soapbox derby
soapbox orator
soapwort gentian
soar falcon
soar hawk
soaring costs
soaring heights
soaring plane
soaring prices
sob sister
sob story
sob stuff
sobe it
sober as a judge
sober down
sober fact
sober off
sober reality
sober senses
sober up
sober-blooded
sober-clad
sober-disposed
sober-eyed
sober-headed
sober-headedness
sober-minded
sober-mindedly
sober-mindedness
sober-sad
sober-spirited
sober-suited
sober-tinted
soccer ball
soccer field
sociable coach
sociable person
social Darwinism
social Darwinist
social accounting
social activity
social affair
social anthropologist
social anthropology
social assistance
social barrier
social bee
social call
social circle
social class
social climber
social climbing
social code
social compact
social conduct
social conscience
social consciousness
social contract
social control
social convention
social critic
social dancer
social dancing
social democracy
social democrat
social differentiation
social director
social discrimination
social disease
social disorganization
social distance
social drinker
social drinking
social environment
social ethics
social evolution
social full-dress uniform
social gathering
social gospel
social grace
social graces
social grouping
social heritage
social incompatibility
social insurance
social interaction
social intercourse
social isolation
social lion
social lubricant
social maladjustment
social organization
social outcast
social parasite
social pathology
social pressure
social procedures
social process
social psychiatry
social psychology
social realism
social realist
social register
social relations
social round
social science
social scientist
social season
social secretory
social security
social service
social services
social set
social settlement
social studies
social usage
social wasp
social welfare
social whirl
social work
social worker
social-climbing
social-minded
social-mindedly
social-mindedness
social-service
socialist economy
socialistic economy
socialized medicine
socially incompatible
socially prominent
society evil
society goods
society queen
society screw
society verse
socio-
socio-economic
socio-official
sociological adjustive reactions
sociological novel
socius criminis
sock away
sock in
sock lamb
sock lining
sock suspender
sock suspenders
socket basket
socket chisel
socket eye
socket pole
socket punch
socket screw
socket spanner
socket washer
socket wrench
sockeye salmon
sod cloth
sodio-
sodium acetate
sodium acid carbonate
sodium alum
sodium aluminate
sodium amide
sodium ammonium phosphate
sodium arsenate
sodium arsenite
sodium arsphenamine
sodium barbital
sodium benzoate
sodium bborate
sodium bicarbonate
sodium bichromate
sodium bisulphate
sodium bisulphite
sodium borate
sodium bromide
sodium carbonate
sodium carbonite
sodium chlorate
sodium chloride
sodium citrate
sodium cyanide
sodium cyclamate
sodium cyclohexylsulfamate
sodium dicarbonate
sodium dichromate
sodium dioxide
sodium dithionate
sodium dithionite
sodium ethoxide
sodium ethylate
sodium fluoride
sodium fluoroacetate
sodium glutamate
sodium hydrate
sodium hydrosulfite
sodium hydrosulphide
sodium hydrosulphite
sodium hydroxide
sodium hypochlorite
sodium hyposulphite
sodium hyposulphite
sodium iodide
sodium lamp
sodium light
sodium meta-arsenite
sodium methoxide
sodium methylate
sodium monoxide
sodium nitrate
sodium nitrite
sodium nitroprusside
sodium oxide
sodium pentothal
sodium perborate
sodium peroxide
sodium phosphate
sodium polysulfide
sodium propionate
sodium pump
sodium pyroborate
sodium salicylate
sodium silicate
sodium stearate
sodium suit agent
sodium sulfate
sodium sulfide
sodium sulfite
sodium sulphate
sodium sulphide
sodium sulphite
sodium sulphhydral
sodium tetrabor
sodium tetraborate
sodium thiocyanate
sodium thiopental
sodium thiosulfate
sodium thiosulphate
sodium tungstate
sodium vapor
sodium-vapor lamp
sodium-vapour lamp
sofa bed
sofa bedstead
sofa corner
sofa cover
sofa cushion
sofa maker
sofa pillow
sofa seat
sofa table
sofa-bed
sofa-ridden
soffit brick
soft armor
soft as a kiss
soft as a sigh
soft as clay
soft as dough
soft as putty
soft as silk
soft binding
soft chancre
soft clam
soft coal
soft color
soft currency
soft diet
soft drink
soft focus
soft furnishings
soft goods
soft ground
soft hail
soft hat
soft ice cream
soft in the head
soft landing
soft market
soft nose stem
soft on
soft palate
soft paste
soft patch
soft pedal
soft phototube
soft phrases
soft place in your heart
soft ray
soft roe
soft roll
soft rot
soft scale
soft sell
soft shoulder
soft sign
soft sleep
soft soap
soft solder
soft spot
soft spot in your heart
soft tick
soft tongue
soft touch
soft tube
soft voice
soft water
soft wheat
soft wood
soft words
soft-armed
soft-backed
soft-bedded
soft-bellied
soft-bill
soft-billed
soft-blowing
soft-board
soft-bodied
soft-boil
soft-boiled
soft-bone
soft-bosomed
soft-bound book
soft-breathed
soft-bright
soft-brushing
soft-centred
soft-circling
soft-coal
soft-coated
soft-colored
soft-conched
soft-conscienced
soft-core pornography
soft-cored
soft-couched
soft-cover
soft-dressed
soft-ebbing
soft-embodied
soft-extended
soft-eyed
soft-feathered
soft-feeling
soft-fingered
soft-finished
soft-finned
soft-flecked
soft-fleshed
soft-flowing
soft-focus
soft-foliaged
soft-footed
soft-footedly
soft-glazed
soft-going
soft-ground
soft-ground etching
soft-haired
soft-handed
soft-head
soft-headed
soft-headedness
soft-hearted
soft-heartedly
soft-heartenedness
soft-hued
soft-laid
soft-leaved
soft-lucent
soft-mannered
soft-mettled
soft-minded
soft-murmuring
soft-natured
soft-nosed
soft-paced
soft-pale
soft-palmed
soft-paste
soft-paste porcelain
soft-pated
soft-pedal
soft-pedaled
soft-pedaling
soft-pedalled
soft-pedalling
soft-rayed
soft-roasted
soft-rock geology
soft-sawder
soft-sawderer
soft-sealed
soft-shell
soft-shell clam
soft-shell crab
soft-shelled
soft-shelled turtle
soft-shining
soft-shoe
soft-shoe dancing
soft-shouldered
soft-sighing
soft-silken
soft-skinned
soft-sleeping
soft-sliding
soft-slow
soft-smiling
soft-soap
soft-soaper
soft-soaping
soft-solder
soft-soothing
soft-sounding
soft-speaking
soft-spirited
soft-spleened
soft-spoken
soft-spread
soft-spun
soft-steel
soft-swelling
soft-tailed
soft-tanned
soft-tempered
soft-throbbing
soft-timbered
soft-tinted
soft-toned
soft-tongued
soft-treading
soft-voiced
soft-wafted
soft-warbling
soft-water
soft-whispering
soft-winged
soft-witted
soft-wooded
soft-yielding
soft-blowing wind
soften the blow
soften up
softening of the brain
softening point
softening-up
softer sex
softwood tree
soi-disant
soil bank
soil binder
soil cap
soil cement
soil chemistry
soil conditioner
soil conservation
soil mechanics
soil miller
soil mulch
soil pipe
soil profile
soil rot
soil science
soil scientist
soil sickness
soil stack
soil stain
soil survey
soil-bank
soil-bound
soil-freesoilage
soiling crop
soixante-neuf
soixante-quinze
soja bean
soja-bean oil
soke reeve
sol-fa
sol-fa exercise
sol-fa syllables
sol-faed
sol-faer
sol-faing
sol-faist
sol-lunar
sola topee
solan goose
solar X-ray counter
solar X-ray detector
solar apex
solar battery
solar cell
solar chariot
solar constant
solar corona
solar day
solar eclipse
solar ecliptic
solar engine
solar flare
solar furnace
solar gamma ray counter
solar halo
solar heat
solar heater
solar heating
solar house
solar machine
solar mirror
solar month
solar myth
solar particle
solar physicist
solar physics
solar plexus
solar power
solar prominence
solar rays
solar spectrum
solar still
solar system
solar telegraph
solar therapy
solar tide
solar time
solar ultraviolet detector
solar wind
solar year
solari-
sold on
solder nipple
soldering bolt
soldering copper
soldering gun
soldering iron
soldering nipple
soldering paste
soldering torch
soldering union
soldering wig
soldier ant
soldier beetle
soldier bug
soldier course
soldier crab
soldier fly
soldier of fortune
soldier on
soldier orchid
soldier orchis
soldier palmer
soldier sprag
soldier suit
soldier turtle
soldier's heart
soldier's medal
soldier-crab
soldier-fashion
soldier-mad
soldierly quality
soldierly virtues
soldiers' home
sole blocker
sole corporation
sole cutter
sole sewer
sole sorter
sole stamper
sole tile
sole trader
sole tree
sole-beating
sole-begotten
sole-beloved
sole-bound
sole-channeling
sole-commissioned
sole-cutting
sole-deep
sole-finishing
sole-happy
sole-justifying
sole-leather
sole-leather kelp
sole-living
solid as a rock
solid body
solid bottom
solid comfort
solid fuel
solid geometry
solid ground
solid injection
solid of revolution
solid propellant
solid rock
solid solution
solid-billed
solid-bronze
solid-browed
solid-color
solid-colored
solid-drawn
solid-fronted
solid-fuel rocket
solid-full
solid-gold
solid-headed
solid-hoofed
solid-horned
solid-injection
solid-ink
solid-ivory
solid-looking
solid-ported
solid-seeming
solid-set
solid-silver
solid-state
solid-state device
solid-state physics
solid-tired
solidus curve
solitary bee
solitary confinement
solitary person
solitary sandpiper
solitary vireo
solitary wasp
solo dancer
solo dancing
solo flight
solo grand
something comfortable
something else
something else again
something extra
something fierce
something for good measure
something for something
something in hand
something in reserve
something in return
something like
something missing
something of value
something or other
something out of your system
something special
something terrible
something to be desired
something to brag about
something to chew on
something to fall back on
something to get your teeth into
something to shout about
something to spare
something to write home about
sometime or other
sometimes and sometimes not
somewhere about
somewhere else
somewhere near
somn-
somnambul-
somnambulistic hypnosis
sommi-
son and heir
son et lumiere
son of Adam
son of God
son of a bitch
son of a gun
son of the sable night
son of the soil
son-in-law
son-in-lawship
sonata allegro
sonata form
sonata-allegro
sonder yacht
song and dance
song and dance man
song box
song cycle
song form
song hit
song leader
song maker
song making
song of the Sirens
song sparrow
song thrush
song writer
song writing
song-and-dance
song-and-dance act
song-bird
song-book
song-fraught
song-play
song-school
song-singing
song-smith
song-timed
song-tuned
song-worthy
sonic barrier
sonic boom
sonic depth finder
sonic depth sounder
sonic mine
sonic speed
sonic wall
sonnet sequence
sonny boy
sonority syllable
sons of Belial
sons of Martha
sons of guns
sons of men
sons of the devil
sons-in-law
soogee-moogee
soola clover
soon enough
soon-believing
soon-choked
soon-clad
soon-consoled
soon-contented
soon-descending
soon-done
soon-drying
soon-ended
soon-fading
soon-known
soon-mended
soon-monied
soon-parted
soon-quenched
soon-repeated
soon-repenting
soon-rotting
soon-said
soon-sated
soon-speeding
soon-tired
soon-wearied
sooner or later
sooner than
soot black
soot bodies
soot brown
soot dew
soot-bespeckled
soot-black
soot-bleared
soot-colored
soot-dark
soot-fall
soot-grimed
soot-smutched
soot-sowing
soothing syrup
soothing words
sooty black
sooty blotch
sooty mold
sooty mould
sooty tern
sooty-faced
sooty-mouthed
sooty-planed
sop to Cerberus
sop up
sophistic syllogism
sophistical reasoning
sopping wet
soprano clef
soprano part
sops-in-wine
sora rail
sorb apple
sorb tree
sorb-apple
sorbic acid
sorbo rubber
sore beset
sore disappointment
sore head
sore mouth
sore point
sore pressed
sore shin
sore spot
sore throat
sore-backed
sore-beset
sore-dreaded
sore-eyed
sore-footed
sore-head
sore-pressed
sore-pressedore-taxedsore-taxedsore-toedsore-triedsore-vexedsore-weariedsore-wonsore-worn
soredisore-loyally disappointedsorely pressedsorghum brownsorghum middgesorghum smutsorority girlsorority housesorority womanssorrel dockssorrel familyssorrel saltssorrel trees
sorrel vine
sorrow for
sorrow over
sorrow with
sorrow-beaten
sorrow-blinded
sorrow-bound
sorrow-breathing
sorrow-breeding
sorrow-bringing
sorrow-burdened
sorrow-ceasing
sorrow-closed
sorrow-clouded
sorrow-daunted
sorrow-furrowed
sorrow-healing
sorrow-laden
sorrow-melted
sorrow-parted
sorrow-ripening
sorrow-seasoned
sorrow-seeing
sorrow-sharing
sorrow-shot
sorrow-shrunken
sorrow-sick
sorrow-sighing
sorrow-sobbing
sorrow-streaming
sorrow-stricken
sorrow-struck
sorrow-tired
sorrow-torn
sorrow-wasted
sorrow-worn
sorrow-wounded
sorrow-wreathen
sorrowful tree
sorry for yourself
sorry lot
sorry plight
sorry-flowered
sorry-looking
sort of
sort out
sort with
sorter-out
sortes Biblicae
sortes Homericae
sortes Praenestinae
sortes Vergilianae
sorting boom
sorting jack
sorting out
sorting tracks
sorting yard
sostenuto pedal
sostinente pianoforte
sot on
sot-weed
sothic cycle
sotto voce
sou markee
sou marqu
sou'-west
sou-sou
sou-southerly
souari nut
souari-nut
souari-nut family
soubise sauce
soufriere bird
sought-after
soul bell
soul blindness
soul body
soul cake
soul curer
soul deafness
soul food
soul house
soul in glory
soul kiss
soul mate
soul mates
soul of kindness
soul of the dead
soul scat
soul scot
soul shot
soul silver
soul sleep
soul sleeper
soul-adorning
soul-amazing
soul-benumbed
soul-blind
soul-blinded
soul-blindness
soul-boiling
soul-born
soul-burdened
soul-charming
soul-choking
soul-cloying
soul-conceived
soul-confirming
soul-confounding
soul-converting
soul-corrupting
soul-damning
soul-deep
soul-delighting
soul-destroying
soul-devouring
soul-diseased
soul-dissolving
soul-driver
soul-enchanting
soul-ennobling
soul-enthraling
soul-fatting
soul-fearing
soul-felt
soul-forsaken
soul-fostered
soul-frighting
soul-galled
soul-gnawing
soul-harrowing
soul-humbling
soul-illumined
soul-imitating
soul-infused
soul-killing
soul-kiss
soul-loving
soul-mass
soul-moving
soul-murdering
soul-numbing
soul-pained
soul-piercing
soul-pleasing
soul-racking
soul-raising
soul-ravishing
soul-rending
soul-reviving
soul-sapping
soul-satisfying
soul-saving
soul-scot
soul-searching
soul-shaking
soul-shot
soul-sick
soul-sickening
soul-sickness
soul-sinking
soul-slaying
soul-stirring
soul-subduing
soul-sunk
soul-sure
soul-sweet
soul-tainting
soul-thralling
soul-tiring
soul-tormenting
soul-vexed
soul-wise
soul-wounded
soul-wounding
souls in hell
sound a fanfare
sound a knell
sound a retreat
sound a sour note
sound a tattoo
sound an alarm
sound and fury
sound area
sound as a dollar
sound asleep
sound barrier
sound block
sound boarding
sound bone
sound booth
sound bow
sound box
sound cage
sound camera
sound carrier
sound change
sound channel
sound chest
sound compensation
sound control
sound critical judgment
sound director
sound economy
sound effect
sound effects
sound evidence
sound field
sound figures
sound film
sound frequency
sound gate
sound harshly
sound head
sound hole
sound in the ear
sound in tune
sound in wind and limb
sound intensity
sound intensity level
sound judgment
sound knot
sound law
sound lens
sound like
sound limiter
sound line
sound man
sound mind
sound mixer
sound money
sound monitor
sound motion picture
sound of mind and body
sound of trumpets
sound off
sound out
sound pendulum
sound perimeter
sound picture
sound-level data
sound-making
sound-minded
sound-mindedness
sound-on-film
sound-post
sound-powered telephone
sound-producing
sound-ranging altimeter
sound-sensed
sound-set
sound-sleeping
sound-stated
sound-stilling
sound-sweet
sound-thinking
sound-winded
sound-witted
sounding balloon
sounding block
sounding board
sounding bottle
sounding harsh
sounding lead
sounding line
sounding machine
sounding out
sounding post
sounding rocket
sounding rod
sounding stop
sounding tube
sounding-board
sounding-lead
sounding-line
soundness of doctrine
soundness of judgment
soundness of mind
soundproofing insulation
soup bowl
soup cup
soup house
soup kitchen
soup maigre
soup plate
soup shop
soup stock
soup up
soup's on
soup-and-fish
soup-fin shark
soup-strainer
souple silk
sour as vinegar
sour ball
sour balls
sour cherry
sour cream
sour gourd
sour grapes
sour gum
sour mash
sour milk
sour note
sour orange
sour pickle
sour salt
sour thing
sour-blooded
sour-breathed
sour-complexioned
sour-dough
sour-eyed
sour-faced
sour-featured
sour-headed
sour-looked
sour-looking
sour-natured
sour-sap
sour-sap disease
sour-smelling
sour-sop
sour-sweet
sour-tasted
sour-tasting
sour-tempered
sour-tongued
sour-visaged
source book
source material
source of aesthetic delight
source of aesthetic pleasure
source of light
source of supply
source program
sourdough bread
soured cream
sous-
sous-lieutenant
sous-prefect
south about
south african
south by east
south by west
south country
south pole
south sea
south wind
south-
south-blowing
south-borne
south-east
south-easterly
south-eastern
south-eastward
south-facing
south-following
south-preceding
south-seaman
south-seeking
south-side
south-south-east
south-south-west
south-southeast
south-southeasterly
south-southeastward
south-southerly
south-southwest
south-southerly
south-southwestward
south-southwestwardly
south-west
south-wester
south-westerly
south-western
south-westward
south-westwardly
southeast by east
southeast by south
southerly burster
southerly buster
southern cane
southern crab apple
southern cross
southern crown
southern cypress
southern dewberry
southern english
southern hemisphere
southern lights
southern magnolia
southern right whale
southern studfish
southern toad
southwest by south
southwest by west
soutien-gorge
souvenir book
souvenir day
souvenir hunter
souvenir sheet
souvenir spoon
sovereign contempt
sovereign nation
sovereign nationhood
sovereign pontiff
sovereign princess
sovereign queen
sovereign remedy
sovereign state
sovereign statehood
sow block
sow broadcast
sow bug
sow chaos
sow disorder
sow dissension
sow fennel
sow gapeseed
sow grass
sow the sand
sow the seed
sow the seeds of
sow thistle
sow your wild oats
sow-back
sow-bread
sow-bug
sow-gelder
sow-metal
sow-pig
space-pervading
space-piercing
space-polar
space-saving
space-spread
space-thick
space-time
space-time continuum
space-traveling
space-world
spaced out
spaced-antenna direction finder
spaced-loop direction finder
spaced-out
spaceport station
spacing Telegraphy
spacious mind
spacious of mind
spackling compound
spade bayonet
spade beard
spade cassino
spade convention
spade face
spade foot
spade graft
spade grass
spade guinea
spade handle
spade iron
spade lug
spade maker
spade money
spade press
spade rudder
spade-beard
spade-bearded
spade-cut
spade-deep
spade-dug
spade-footed
spade-fronted
spade-shaped
spade-trenched
spadefoot toad
spadici-
spading fork
spading harrow
spanking wind
spanking-new
spanner wrench
spanner-tight
spar bridge
spar buoy
spar ceiling
spar deck
spar down
spar torpedo
spar tree
spar varnish
spar-deck vessel
spar-decked
spar-decker
spare a thought for
spare diet
spare no effort
spare no expense
spare no pains
spare nothing
spare room
spare the price
spare the rod
spare time
spare tire
spare tyre
spare-bodied
spare-built
spare-fed
spare-handed
spare-handledly
spare-looking
spare-rib
spare-set
spare-time
spare-time activity
sparge pipe
sparing of words
sparingness of words
spark advance
spark arrester
spark chamber
spark coil
spark condenser
spark discharge
spark frequency
spark gap
spark generator
spark instant
spark knock
spark lead
spark lever
spark micrometer
spark of life
spark off
spark plug
spark potential
spark spectrum
spark transmission
spark transmitter
spark-over
spark-plug
spark-plug wrench
sparked-back
sparking lamp
sparking plug
sparking points
sparking voltage
spangle metal
spangle-blazing
spangle-drifting
spangle-eyed
sparkling Burgundy
sparkling synchysis
sparkling water
sparkling wine
sparling fowl
sparring mate
sparring partner
sparrow dust
sparrow hawk
sparrow owl
sparrow pecking
sparrow-bill
sparrow-billed
sparrow-blasting
sparrow-colored
sparrow-footed
sparrow-hawk
sparrow-tail
sparrow-tailed
sparrow-witted
sparse-flowered
spart grass
spasm band
spasm of terror
spastic colon
spastic paralysis
spatch-cock
spate of words
spatial extension
spatling poppy
spatter cone
spatter dash
spatter pipe
spatting stick
spatulate-leaved
spawn brick
spawn fungus
speak about
speak at length
speak before you think
speak by the book
speak by the card
speak drunkenly
speak faintly
speak fair
speak falsely
speak for
speak for Buncombe
speak for itself
speak highly of
speak ill of
speak ill of behind your back
speak imperfectly
speak in high terms of
speak in privacy
speak in riddles
speak in tongues
speak incoherently
speak inopportune
speak one's mind
speak one's piece
speak out
speak plainly
speak poorly
speak slightly of
speak soothing words
speak the truth
speak thickly
speak through your nose
speak to
speak to the winds
speak too late
speak too soon
speak true
speak up
speak up for
speak volumes
speak warmly of
speak well for
speak well of
speak with
speak with forked tongue
speak words of wisdom
speak your mind
speak your piece
speak-easy
speaker hole
speaker key
speaker system
speaker unit
speaker's platform
speaker's stand
speaking arc
speaking clock
speaking generally
speaking in tongues
speaking of
speaking part
speaking pipe
speaking rod
speaking stop
speaking terms
speaking trumpet
speaking tube
speaking type
speaking up for
speaking-to
speaking-trumpet
speaking-tube
spear bed
spear crowfoot
spear foot
spear grass
spear gun
spear hand
spear hook
spear javelin
spear kin
spear lily
spear plate
spear play
spear point
spear pyrites
spear rest
spear rod
spear side
spear thistle
spear thrower
spear widgeon
spear-bearing
spear-bill
spear-billed
spear-bound
spear-brandishing
spear-breaking
spear-carrier
spear-fallen
spear-famed
spear-grass
spear-head
spear-head spoon
spear-headed
spear-high
spear-nosed
spear-pierced
spear-pointed
spear-shaking
spear-shaped
spear-skilled
spear-splintering
spear-swept
spear-thrower
spear-throwing
spear-wielding
spearmint oil
special act
special affinity
special agent
special area
special article
special assessment
special case
special circumstance
special committee
special consideration
special constable
special contract
special correspondent
special court-martial
special delivery
special demurrer
special dividend
special drawing rights
special edition
special effect
special effects
special electronic
special favor
special full-dress uniform
special handling
special hospital
special interest
special interests
special jury
special knowledge
special library
special licence
special map
special order
special orders
special partner
special partnership
special permission
special pleader
special pleading
special police
special privilege
special providence
special relativity
special rule
special school
special session
special sessions
special situation stock
special sort
special staff
special term
special theory of relativity
special treatment
special troops
special-delivery
special-interest group
special-interest lobby
special-interest pressure
special-process
special-purpose tubes
specialité de la maison
specialize in
specialized dictionary
specialized kinds
specialized knowledge
specialized stones
speciality contract
specialty shop
specialty stock
specie payment
specie point
species pectorales
specific activity
specific character
specific charge
specific conductance
specific duty
specific epithet
specific gravity
specific heat
specific heat capacity
specific humidity
specific immunity
specific impulse
specific inductive capacity
specific inflammation
specific performance
specific reluctance
specific remedy
specific resistance
specific therapy
specific treatment
specific viscosity
specific volume
specific-gravity
specific-gravity balance
specific-gravity bottle
specific-gravity bulbs
specifica requirements
specifically provide
specimen bottle
specimen plant
specio-
specious appearance
specious argument
specious present
specious reasoning
speck block
speckle loon
speckle perch
speckle trout
speckle-backed
speckle-bellied
speckle-billed
speckle-breasted
speckle-coated
speckle-faced
speckle-marked
speckle-skinned
speckle-starred
speckled Sussex
speckled trout
spectacle case
spectacle clew
spectacle coot
spectacle frame
spectacle furnace
spectacle iron
spectacle stone
spectacled cobra
spectator sport
specter bat
specter candle
specter crab
specter lemur
specter shrimp
specter-fighting
specter-haunted
specter-looking
specter-mongering
specter-pallid
specter-staring
specter-thin
specter-wan
spectra yellow
spectral classification
spectral color
spectral ghost
spectral line
spectral luminous efficiency
spectral series
spectral type
spectro-
spectroscopic analysis
spectroscopic binary
spectroscopic camera
spectrum analysis
spectrum color
spectrum locus
spectrum-luminosity diagram
speculate in stocks
speculative geometry
speculative philosophy
speculative securities
speculative stock
speculum metal
speech abnormality
speech accent
speech act
speech area
speech center
speech choir
speech circuit
speech clinic
speech community
speech correction
speech curve
speech day
speech defect
speech form
speech from the throne
speech house
speech impediment
speech island
speech map
speech melody
speech organ
speech pathology
speech reading
speech rhythm
speech room
speech situation
speech sound
speech sounds
speech tune
speech-bereaving
speech-bereft
speech-bound
speech-famed
speech-flooded
speech-maker
speech-reading
speech-reporting
speech-shunning
speech-writing
speed along
speed away
speed boss
speed box
speed comparisons
speed cone
speed cones
speed control
speed controller
speed cop
speed counter
speed demon
speed flag
speed frame
speed freak
speed gauge
speed gear
speed indicator
speed lamp
speed lathe
speed light
speed limit
speed maniac
speed merchant
speed meter
speed of sound
speed on
speed on its way
speed over the bottom
speed over the ground
speed pulley
speed record
speed recorder
speed reducer
speed regulator
speed rigger
speed road
speed sheet
speed sight
speed skate
speed sprayer
speed test
speed the parting guest
speed tool
speed trap
speed truck
speed up
speed-length ratio
speed-up
speeding-place
speedway race
spek-boom
spell backward
spell down
spell of nerves
spell of rain
spell of work
spell off
spell out
spell-banned
spell-bind
spell-bound
spell-casting
spell-caught
spell-free
spell-invoking
spell-like
spell-raised
spell-riveted
spell-set
spell-sprung
spell-stopped
spell-struck
spell-weaving
spelling bee
spelling book
spelling match
spelling pronunciation
spelling reform
spelling reformer
spelter calciner
spelter chills
spelter solder
spencer mast
spend a penny
spend as if money grew on trees
spend like a drunken sailor
spend money like water
spend more than you have
spend the time
spend time
spend what you haven't got
spend your time in
spend yourself
spend yourself for
spend-all
spend-good
spending money
spending-money
spendthrift of your tongue
spendthrift trust
spenserian sonnet
spenserian stanza
spent-gnat
spent-gnat fly
sperm aster
sperm candle
sperm cell
sperm center
sperm nucleus
sperm oil
sperm receptor
sperm sac
sperm whale
sperm whaler
sperm whaling
sperm-
sperm-whale porpoise
spermat-
spermathecal gland
spermatic cord
spermatic fluid
spermatic plexus
spermatic veins
spermato-
spermaphore sac
spermi-
spermicidal jelly
spermo-
spew out
spewing sickness
spey cast
sphae-ropsidaceous
sphaero-
sphagnum bog
sphagnum frog
sphagnum moss
spheno-
spheno-occipital
sphenoid bone
sphere circle
sphere crystals
sphere fungus
sphere gap
sphere geometry
sphere of influence
sphere of work
sphere tracks
sphere-born
sphere-descended
sphere-filled
sphere-found
sphere-headed
sphere-shaped
sphere-tuned
spheres of influence
spherical aberration
spherical angle
spherical coordinate
spherical coordinates
spherical excess
spherical geometry
spherical polygon
spherical sailing
spherical triangle
spherical trigonometry
spherico-
sphero-
spheroidal galaxy
spherometer caliper
sphinx baboon
sphinx caterpillar
sphinx moth
sphinxes without secrets
sphygmo-
spice ball
spice birch
spice box
spice cake
spice currant
spice grinder
spice mill
spice nut
spice of wit
spice plate
spice shop
spice store
spice trade
spice tree
spice-bearing
spice-box
spice-breathing
spice-burnt
spice-cake
spice-fraught
spice-laden
spice-warmed
spice-wood
spicebush silk moth
spicebush swallowtail
spici-
spick and span
spick and span new
spick-and-span
spick-and-spandy
spick-and-spanness
spick-span-new
spiculi-
spicy fleabane
spider ant
spider band
spider beetle
spider bug
spider cart
spider catcher
spider cell
spider crab
spider diver
spider eater
spider fern
spider fly
spider grass
spider hoop
spider hunter
spider leg
spider lily
spider line
spider mite
spider monkey
spider nevus
spider orchid
spider orchis
spider phaeton
spider plant
spider shell
spider stitch
spider wagon
spider wasp
spider web
spider wheel
spider's web
spider-catcher
spider-crab
spider-fingered
spider-hunting wasp
spider-leg
spider-leg table
spider-legged
spider-leggy
spider-like
spider-limbed
spider-line
spider-shanked
spider-spun
spider-web
spider-webby
spiderwort family
spiegel charger
spiegel iron
spiff up
spiffed up
spigot joint
spike bit
spike bowsprit
spike buck
spike disease
spike grass
spike heath
spike heel
spike knot
spike lavender
spike nail
spike oil
spike rush
spike shell
spike team
spike tub
spike your guns
spike-billed
spike-horned
spike-kill
spike-lavender oil
spike-leaved
spike-nail
spike-pitch
spike-pitcher
spike-rush
spike-tailed
spike-tooth
spike-tooth harrow
spiked alder
spikenard tree
spiketail coat
spiketail family
spiking piece
spile driver
spiling batten
spill blood
spill box
spill ink
spill it
spill light
spill out
spill over
spill stream
spill the beans
spill your guts
spill-over
spillet fishing
spilling line
spilt milk
spin a long yarn
spin bowler
spin casting
spin fisherman
spin fishing
spin house
spin in
spin like a teetotum
spin like a top
spin off
spin out
spin quantum number
spin rocks
spin stabilization
spin the bottle
spin the plate
spin the platter
spin wave
spin-dried
spin-drier
spin-dry
spin-dryer
spin-drying
spin-house
spin-off
spin-stabilized rocket
spin-text
spina bifida
spinach beet
spinach blight
spinach dock
spinach flea beetle
spinach green
spinach yellows
spinach-colored
spinach-rhubarb
spinal accessory nerve
spinal anaesthesia
spinal anesthesis
spinal canal
spinal column
spinal cord
spinal meningitis
spinal tap
spindle bander
spindle fiber
spindle fibers
spindle file
spindle kin
spindle oil
spindle pointer
spindle sander
spindle shell
spindle side
spindle sprout
spindle step
spindle stone
spindle stretcher
spindle stromb
spindle temper
spindle tree
spindle tuber
spindle whorl
spindle-cell
spindle-cell sarcoma
spindle-celled
spindle-formed
spindle-legged
spindle-pointed
spindle-rooted
spinning out
spinning pot
spinning top
spinning tube
spinning wheel
spinning-house
spinning-jenny
spinning-out
spinning-wheel
spino-
spino-olivary
spino-olivary tract
spinocerebellar tract
spinous process
spinous-branchied
spinous-finned
spinous-foliaged
spinous-leaved
spinous-pointed
spinous-serrate
spinous-tailed
spinous-tipped
spinous-toothed
spinuli-
spiny anteater
spiny bur
spiny cocklebur
spiny dogfish
spiny lizard
spiny lobster
spiny ray
spiny-backed
spiny-coated
spiny-crested
spiny-finned
spiny-footed
spiny-fruited
spiny-haired
spiny-leaved
spiny-legged
spiny-margined
spiny-pointed
spiny-rayed
spiny-ribbed
spiny-skinned
spiny-tailed
spiny-tipped
spiny-toothed
spiral balance
spiral bevel gear
spiral binding
spiral casing
spiral galaxy
spiral gear
spiral loop
spiral nebula
spiral notebook
spiral of Archimedes
spiral shell end mill
spiral spring
spiral staircase
spiral stairs
spiral upward
spiral-bound
spiral-coated
spiral-gear
spiral-grooved
spiral-horned
spiral-nebula
spiral-nebula hypothesis
spiral-pointed
spiral-spring
spiral-vane
spiraling prices
spiraling up
spire light
spire-bearer
spire-shaped
spire-steeple
spiric body
spirit away
spirit blue
spirit butterfly
spirit compass
spirit control
spirit duck
spirit duplicator
spirit gum
spirit lamp
spirit level
spirit leveling
spirit manifestation
spirit of hartshorn
spirit of nitrous ether
spirit of the age
spirit of the sea
spirit of the time
spirit of turpentine
spirit rapper
spirit rapping
spirit up
spirit varnish
spirit vinegar
spirit world
spirit writing
spirit-awing
spirit-boiling
spirit-born
spirit-bowed
spirit-bribing
spirit-broken
spirit-cheering
spirit-chilling
spirit-crushed
spirit-crushing
spirit-drinking
spirit-fallen
spirit-freezing
spirit-froze
spirit-guided
spirit-haunted
spirit-healing
spirit-inspiring
spirit-lifting
spirit-marring
spirit-numb
spirit-piercing
spirit-possessed
spirit-promoted
spirit-pure
spirit-quelling
spirit-rapper
spirit-rapping
spirit-refreshing
spirit-rousing
spirit-sinking
spirit-small
spirit-soothing
spirit-speaking
spirit-stirring
spirit-stricken
spirit-thrilling
spirit-torn
spirit-troubling
spirit-walking
spirit-wearing
spirit-wise
spirits of ammonia
spirits of camphor
spirits of hartshorn
spirits of salt
spirits of the air
spirits of turpentine
spirits of wine
spiritual being
spiritual blindness
spiritual body
spiritual bouquet
spiritual cleansing
spiritual climate
spiritual death
spiritual director
spiritual father
spiritual healer
spiritual healing
spiritual humbug
spiritual incest
spiritual leader
spiritual love
spiritual presence
spiritual purification
spiritual void
spiritual wife
spiritual-minded
spiritual-mindedly
spiritual-mindedness
spiritually blind
spiritually cleansed
spiritually purified
spirituous tincture
spiritus asper
spiritus camphorae
spiritus frumenti
spiritus lenis
spiritus mundi
spirketing plate
spiro compound
spiro-
spit and image
spit and polish
spit bug
spit curl
spit image
spit in the ocean
spit it out
spit on your hands
spit up
spit upon
spit-and-polish
spit-ball
spite fence
spite of
spite wall
spite work
spitfire jib
spitting cobra
spitting distance
spitting image
spitting snake
spittle bug
spittle fly
spittle insect
spitz dog
spitz flute
splanchno-
splash back
splash dam
splash feed
splash guard
splash lubrication
splash of rain
splash out
splash system
splash zone
splash-
splash-down
splash-lubricate
splash-tight
splat-back
splatter-faced
splay-edged
splay-footed
splay-kneed
splay-legged
splay-mouthed
splay-toed
spleen amaranth
spleen stone
spleen-born
spleen-devoured
spleen-pained
spleen-piercing
spleen-shaped
spleen-sick
spleen-struck
spleen-swollen
spleenwort bush
splen-
splendid isolation
splenic fever
spleno-
splice bar
splice box
splice graftage
splice grafting
splice the main brace
splicing chamber
splicing hammer
spline broach
spline clutch
spline joint
spline milling machine
spline shaft
spline weight
splint armor
splint bar
splint basket
splint bone
splint coal
splint peeler
splint seat
splint-bottom
splint-bottomed
splinter bar
splinter bulkhead
splinter deck
splinter group
splinter party
splinter-bar
splinter-proof
splish-splash
split 'S'
split T formation
split balance
split decision
split flap
split hairs
split in two
split infinitive
split nut
split open
split pea
split personality
split rail
split run
split schedule
split screen
split second
split shift
split shot
split shovel
split spindle
split sprit
split stroke
split the atom
split the difference
split the ear
split the eardrums
split the ears
split the lungs
split the throat
split ticket
split tin
split turning
split up
split upon a rock
split wheel
split wing
split with laughter
split your head
split your sides
split-
split-bottom
split-eared
split-edge
split-face
split-level
split-lift
split-mouth
split-nosed
split-oak
split-off
split-phase
split-phase motor
split-screen technique
split-second watch
split-timber
split-tongued
split-up
splitmouth sucker
splitting chisel
splitting factor
splitting field
splitting gun
splitting headache
splitting in two
splitting plate
splitting the atom
splitworm moth
spodo-
spoil bank
spoil for
spoil ground
spoil paper
spoil-
spoil-mold
spoil-paper
spoiled brat
spoiled child
spoiled darling
spoiled rotten
spoiling for
spoils of office
spoils system
spoke auger
spoke in your wheel
spoke stitch
spoke-dog
spoken language
spoken word, the
spolia opima
spon-image
spondylitis deformans
sponge bag
sponge bath
sponge cake
sponge cloth
sponge cucumber
sponge diver
sponge down
sponge drop
sponge finger
sponge fisher
sponge fisherman
sponge gourd
sponge grafting
sponge hook
sponge iron
sponge mop
sponge off
sponge on
sponge out
sponge pudding
sponge rubber
sponge tree
sponge up
sponge-bearing
sponge-cake
sponge-colored
sponge-diving
sponge-fishing
sponge-footed
sponge-leaved
sponge-painted
sponge-shaped
spongi-
sponging house
sponging-house
spongio-
spongo-
spongy-flowered
spongy-footed
spongy-looking
spongy-rooted
spongy-wet
spongy-wooded
spontaneous combustion
spontaneous generation
spontaneous recovery
spontaneous response
spool bed
spool turner
spool turning
spool winder
spool-shaped
spooling bracket
spoon bait
spoon bit
spoon bow
spoon brake
spoon bread
spoon chisel
spoon end
spoon food
spoon gouge
spoon hook
spoon iron
spoon lever
spoon meat
spoon nail
spoon net
spoon oar
spoon out
spoon tool
spoon victual
spoon victuals
spoon-back
spoon-beaked
spoon-billed
spoon-bowed
spoon-fashion
spoon-fashioned
spoon-fed
spoon-feed
spoon-feeding
spoon-formed
spoon-meat
spoon-shaped
spoonbill cat
spoonwood ivy
spoony over
spor-
sporadic E layer
sporadic cholera
spore ball
spore case
spore cell
spore fruit
spore mother cell
spore print
spore sac
sporo-
sport car
sport clothes
sport coat
sport fish
sport jacket
sport plane
sport shirt
sport your oak
spot map
spot news
spot of lunch
spot of sleep
spot pass
spot pawn
spot pickup
spot plate
spot price
spot rot
spot sale
spot stroke
spot test
spot weld
spot welder
spot welding
spot white
spot zone
spot-barred
spot-billed
spot-check
spot-drill
spot-earred
spot-face
spot-grind
spot-leaved
spot-lipped
spot-mill
spot-on
spot-soiled
spot-weld
spot-winged
spotted adder
spotted calla lily
spotted cavy
spotted cowbane
spotted crake
spotted crane's-bill
spotted dick
spotted fever
spotted flycatcher
spotted hemlock
spotted hyena
spotted joe-pye weed
spotted sandpiper
spotted spurge
spotted sunfish
spotted wilt
spotted wintergreen
spotted-beaked
spotted-bellied
spotted-billed
spotted-breasted
spotted-eared
spotted-fever tick
spotted-finned
spotted-leaved
spotted-necked
spotted-tailed
spotted-winged
spotter plane
spotting machine
spotting motion
spotting scope
spotty market
spouse-breach
spout adz
spout cup
spout fish
spout hole
spout off
spout out
spout shell
spout-hole
spouting horn
spraddle-legged
sprag road
sprain fracture
sprangle-top
sprat barley
sprat borer
sprat day
sprat loon
sprat-barley
spray can
spray carburetor
spray drain
spray gun
spray nozzle
spray outfit
spray strip
spray-casting
spray-decked
spray-decked
spray-shaped
spray-topped
spray-washed
spray-wet
spread a large clew
spread a shade over
spread a shadow over
spread a small clew
spread about
spread city
spread eagle
spread formation
spread light
spread like wildfire
spread on
spread on a color
spread on the record
spread out
spread over
spread reflection
spread sail
spread sheet
spread sideways
spread sidewise
spread the toils
spread with
spread yourself
spread-eagle
spread-eagled
spread-eagleism
spread-eagleist
spread-eagling
spread-out
spread-over
spread-set
spreader beam
spreader car
spreading abroad
spreading board
spreading dogbane
spreading factor
spreading like a cancer
spreading like wildfire
spreading machine
spreading out
spreading too thin
sprig bolt
sprig budding
sprig-bit
sprig-tailed
sprightly wit
spring a leak
spring a mine under
spring a surprise
spring apart
spring azure
spring back
spring balance
spring barley
spring base
spring beam
spring beauty
spring bed
spring beetle
spring bell
spring binder
spring block
spring bolt
spring bows
spring brass
spring caliper
spring calipers
spring cankerworm
spring catarrh
spring catch
spring chair
spring chicken
spring clip
spring collet
spring corn
spring cotter
spring cress
spring cresslip
spring detent
spring die
spring dividers
spring draft gear
spring faucet
spring fever
spring flood
spring fly
spring frog
spring from
spring governor
spring grain aphis
spring grass
spring green
spring gun
spring hammer
spur whang
spur wheel
spur-bearing
spur-clad
spur-driven
spur-finned
spur-gall
spur-galled
spur-g geared
spur-gilled
spur- heeled
spur-jingling
spur-leather
spur-of-the-moment
spur-of-the-moment response
spur-off-the-moment
spur-rowel
spur-royal
spur-shaped
spur-tailed
spur-toed
spur-wing
spur-winged
spurge daphne
spurge family
spurge flax
spurge ipecac
spurge laurel
spurge moth
spurge nettle
spurge olive
spurge thyme
spurge-wort
spurious wing
spurling line
spurling pipe
spurry sandwort
spurt of rain
sputter and stop
sputum cup
spy glass
spy on
spy out
spy plane
spy ship
spy upon
spy-
spy-catcher
spy-glass
squab broiler
squab pie
squab-pie
squabble over
squad car
squad leader
squad room
squadron leader
squads-left
squads-right
squall cloud
squall line
squam duck
squam-
squamo-
squamo-occipital
squamoso-
squamous epithelium
squander in dribs and drabs
squanter-squash
square accounts
square accounts with
square and rabbet
square away
square bit
square body
square bracket
square cap
square centimeter
square contingency
square dance
square dancing
square deal
square dealing
square file
square foot
square frame
square inch
square it
square joint
square kilometer
square knot
square leg
square mark
square matrix
square meal
square measure
square-eared
square-edged
square-elbowed
square-faced
square-figured
square-fronted
square-headed
square-hewn
square-jawed
square-jointed
square-leg
square-lipped
square-looking
square-made
square-marked
square-meshed
square-mouthed
square-necked
square-nosed
square-rigged
square-rigger
square-root flowmeter
square-rumped
square-set
square-set stoping
square-shafted
square-shaped
square-shooting
square-shouldered
square-skirted
square-stalked
square-stem
square-stemmed
square-stered
square-tailed
square-thread
square-threaded
square-tipped
square-toed
square-toedness
square-toes
square-topped
square-towered
square-wave generator
squared circle
squared off
squared paper
squared ring
squared splice
s quar ing lathe
s quaring the circle
s quarroso-
s qu ar roso-dentate
s quar roso-lacini ate
s qu ar roso-pinnatipartite
s qu ar roso-pinnatisect
s qu ash beetle
s qu ash bite
s qu ash borer
s qu ash bug
s qu ash court
s qu ash flea beetle
s qu ash ladybird
s qu ash rackets
s qu ash racquets
s qu ash tennis
s qu ash vine borer
s qu ash-
s qu ash-vine borer
s qu ashed flat
s qu at board
s qu at on
s qu at tag
s qu at-bodied
s qu at-built
s qu at-hatted
s qu att er sovereignty
s qu att er's right
s qu aw carpet
s qu aw corn
s qu aw duck
s qu aw huckleberry
s qu aw man
s qu aw mint
s qu aw vine
s qu aw waterweed
s qu aw winter
s qu aw-drops
s qu awk box
s qu awk duck
s qu eak by
s qu eak through
s qu eal on
s qu eeg ee roller
s qu eeze bottle
s qu eeze box
squirrel shrew
squirrel something away
squirrel tail
squirrel tail grass
squirrel's-ear
squirrel's-foot fern
squirrel-cage motor
squirrel-colored
squirrel-eyed
squirrel-headed
squirrel-limbed
squirrel-minded
squirrel-tail
squirrel-tail grass
squirrel-trimmed
squirrels-foot fern
squirrel-tail grass
squirt can
squirt gun
squirt-fire
squirting cucumber
squish-squash
squitch grass
stab at
stab culture
stab in the back
stab kick
stab pass
stab to death
stab wages
stab wound
stabat mater
stabbing pain
stabilization fund
stable color
stable door
stable equation
stable equilibrium
stable fly
stable oscillation
stable police
stable state
stable-born
stable-stand
staccato mark
staccato sound
stack against
stack of bones
stack process
stack room
stack the cards
stack the deck
stack up
stack up with
stack-garth
stacked deck
stacking band
stacking belt
stacking swivel
stadia hair
stadia rod
stadia wire
staff angle
staff bead
staff captain
staff car
staff college
staff commander
staff corps
staff degree
staff department
staff notation
staff nurse
staff of Aesculapius
staff of life
staff of office
staff officer
staff ride
staff rush
staff section
staff sergeant
staff sling
staff surgeon
staff system
staff tree
staff vine
staff walk
staff work
staff-herd
staff-tree family
staffordshire terrier
stag beetle
stag bush
stag dance
stag film
stag gang
stag moss
stag party
stag sumac
stag the market
stag tick
stag's-horn coral
stag-beetle
stag-evil
stag-eyed
stag-hafted
stag-handed
stag-headed
stag-headedness
stag-horn
stag-horned
stag-necked
stag-sure
stage boat
stage box
stage brace
stage business
stage carriage
stage cloth
stage coachman
stage direction
stage directions
stage director
stage door
stage effect
stage fright
stage left
stage lighting
stage management
stage manager
stage managership
stage micrometer
stage name
stage peg
stage performance
stage performer
stage play
stage player
stage playing
stage pocket
stage presence
stage presentation
stage property
stage right
stain paper
stained glass
stained glass window
stainless steel
stainless-steel ware
stair horse
stair rail
stair rod
stair tower
stair turret
stair well
stair wire
stair-foot
stair-head
stair-step
stair-stepper
staircase curve
staircase shell
stake boat
stake body
stake down
stake driver
stake horse
stake net
stake out
stake race
stake truck
stake your claim
stake-boat
stakes race
staking your claim
stalactite vault
stalactite work
stalagmite marble
stale repetition
stale-drunken
stale-grown
stale-mouthed
stale-worn
stalk borer
stalk disease
stalk smut
stalk-eyed
stalking-horse
stall angl
stall angle
stall angle of attack
stall around
stall for time
stall landing
stall net
stall off
stall plate
stall reader
stall-fed
stall-feed
stall-feeding
stall-like
stall-master
stalling angle
stalling angle of attack
stalling speed
stallion plague
stamin-
stamp and go
stamp battery
stamp book
stamp booklet
stamp copper
stamp dealer
stamp duty
stamp hammer
stamp in the memory
stamp licker
stamp mill
stamp note
stamp of approval
stamp on
stamp out
stamp pad
stamp rock
stamp tax
stamp upon
stamp your foot
stamp-licking
stamped on the memory
stamped securities
stamping ground
stamping mill
stance fatigue
stanch friendship
stanchion gun
stand a chance
stand a good chance
stand agast
stand agog
stand alone
stand aloof
stand aloof from
stand and be counted against
stand apart
stand around
stand aside
stand at attention
stand at bay
stand at ease
stand at parade rest
stand at the head
stand away
stand back
stand back of
stand bail for
stand behind
stand by
stand by the main sheet
stand by the side of
stand by to weigh anchor
stand clear of
stand condemned
stand down
stand drinks
stand easy
stand erect
stand fair to
stand fast
stand fire
stand firm
stand first
stand for
stand for office
stand forth
stand from
stand guard
stand guard over
stand hawk
stand high
stand house
stand in
stand in a white sheet
stand in awe of
stand in dread of
stand in for
stand in for the land
stand in front
stand in good stead
stand in need of
stand in the place of
stand in the stead of
stand in the way
stand in the way of
stand in with
stand in your own light
stand like a post
stand method
stand mute
stand neuter
stand no nonsense
stand of arms
stand of timber
stand off
stand off and on
stand oil
stand on
stand on a course
stand on a straight course
stand on a volcano
stand on ancient ways
stand on ceremony
stand on end
stand on tiptoe
stand on tiptoes
stand on your own
stand on your own feet
stand on your own legs
stand on your own two feet
stand on your rights
stand one in hand
stand opposed
stand opposite
stand or fall with
stand out
stand out from the shore
stand over
stand over against
stand pat
stand ready
stand responsible for
stand rest
stand revealed
stand sentinel
stand shoulder to shoulder
stand shoulder to shoulder with
stand sponsor for
stand still
stand the costs
stand the gaff
stand the hazard of the die
stand the test
stand to
stand to attention
stand to gain
stand to lose
stand to reason
stand to your engagement
stand together
stand treat
stand under
stand up
stand up against
stand up and be counted
stand up for
stand up for Jesus
stand up straight
stand up to
stand up with
stand upon
stand upon a course
stand upon your rights
stand upright
stand vis-a-vis
stand with arms akimbo
stand you in good stead
stand you in stead
stand your ground
stand your trick
stand your watch
stand-by
stand-bys
stand-down
stand-easy
stand-in
stand-off
stand-off half
stand-offish
stand-offishly
stand-offishness
stand-on vessel
stand-patter
stand-pipe
stand-to
stand-up
stand-up comedian
stand-up comedy
stand-up comedy act
stand-up comic
stand-up fight
standard article
standard atmosphere
standard band
standard behavior
standard broadcasting
standard candle
standard cell
standard coke
standard compass
standard cost
standard deviation
standard dialect
standard dollar
standard error
standard gauge
standard language
standard lining
standard microphone
standard money
standard of comfort
standard of life
standard of living
standard of perfection
standard of value
standard operating procedure
standard page
standard phrase
standard pitch
standard position
standard refraction
standard stock
standard time
standard transmission
standard usage
standard work
standard-bearer
standard-bearership
standard-bred
standard-gage
standard-gaged
standard-gauged
standard-sized
standard-wing
standardized test
stander-by
standing against
standing apart
standing army
standing at attention
standing barrage
standing broad jump
standing committee
standing custom
standing for office
standing gaff
standing high jump
standing jump
standing lug
standing martingale
standing matter
standing on end
standing on its base
standing on its feet
standing on its legs
standing order
standing orders
standing ovation
standing place
standing rigging
standing room
standing room only
standing salt
standing stone
standing to
standing treat
standing up
standing upright
standing vise
standing water
standing wave
standing way
standing-place
standing-wave indicator
standoff coat
standoff half
stanford-binet test
stank hen
stann-
stannel hawk
stannic acid
stannic oxide
stannic sulfide
stannic sulphide
stanno-
stannoso-
staphylo-
staple fiber
staple fur
staple item
staple punch
staple right
staple-fashion
staple-headed
staple-shaped
stapling machine
star acacia
star anise
star anise oil
star aniseed
star antimony
star apple
star belt
star bomb
star buzzard
star capsicum
star catalog
star catalogue
star chart
star check
star chickweed
star cloud
star cluster
star colors
star connection
star coral
star count
star cucumber
star cut
star density
star disk
star drift
star drill
star dust
star facet
star feed
star fern
star finch
star spray
star stream
star streaming
star system
star thistle
star time
star trail
star tulip
star turn
star violet
star wheel
star winding
star worship
star worshiper
star-apple
star-aspiring
star-bearing
star-bedecked
star-bedizened
star-bespotted
star-bestudded
star-blasting
star-born
star-bright
star-broidered
star-chamber
star-climbing
star-connected
star-crossed
star-crossed life
star-decked
star-directed
star-distant
star-dogged
star-dust
star-embroidered
star-eyed
star-fashion
star-fed
star-flower
star-flowered
star-gaze
star-gazer
star-gazing
star-grass
star-inwrought
star-leaved
star-led
star-like
star-mouthed
star-nosed
star-nosed mole
star-of-Bethlehem
star-of-Jerusalem
star-of-bethlehem
star-paved
star-peopled
star-pointed
star-proof
star-ribbed
star-scattered
star-shaped
star-shot
star-skilled
star-spangled
star-spangled banner
star-staring
star-stone
star-studded
star-surveying
star-sweet
star-taught
star-thistle
star-throated
star-watching
star-wearing
star-wise
star-ypointing
starboard anchor
starboard engine
starboard engine ahead
starboard tack
starch blue
starch cellulose
starch corn
starch gum
starch hyacinth
starch layer
starch paste
starch room
starch sheath
starch sirup
starch star
starch syrup
starch tree
starch-digesting
starch-producing
starch-reduced
starch-sized
stare at
stare decisis
stare down
stare hard
stare openmouthed
stare out
stare out of countenance
stare you in the face
stare-about
starfish flower
stark blind
stark dead
stark naught
stark upright
stark-awake
stark-becalmed
stark-blind
stark-calm
stark-dead
stark-drunk
stark-dumb
stark-false
stark-mad
stark-naked
stark-naught
stark-new
stark-raving
stark-raving mad
stark-spoiled
stark-staring
stark-staring mad
stark-stiff
stark-wild
stark-wood
starling stone
starnose mole
starring role
starry campion
starry grasswort
starry heaven
starry heavens
starry host
starry orbs
starry-bright
starry-eyed
starry-eyed over
starry-flowered
starry-golden
starry-headed
starry-nebulous
stars and bars
stars and stripes
stars-of-Bethlehem
stars-of-Jerusalem
start all over
start aside
start back
start going
start in
start music
start off
start on
start out
start the ball rolling
start up
start-naked
start-off
start-stop switch
start-up
starter-off
starting block
starting box
starting friction
starting gate
starting grid
starting handle
starting line
starting note
starting place
starting point
starting post
starting price
starting punch
starting stalls
starting step
starting torque
starting-hole
startle the echoes
startling resemblance
starvation diet
starvation treatment
starvation wages
starved-looking
stash away
stat mi
state a grievance
state aid
state assembly
state attorney
state bank
state bond
state capitalism
state chairman
state chamber
state church
state college
state convention
state coordinate system
state flower
state forest
state guard
state highway
state hospital
state legislature
state medicine
state mutual
state note
state of affairs
state of being
state of being one
state of expectancy
state of grace
state of mind
state of nature
state of nerves
state of suspense
state of the exchequer
state of the market
state of things
state of war
state ownership
state paper
state police
state prayers
state prison
state religion
state rights
state school
state senator
state services
state socialism
state socialist
state tax
state trial
state trooper
state university
state your case
state's attorney
state's evidence
state-aided
state-caused
state-changing
state-educated
state-enforced
state-fed
state-house
state-making
state-mending
state-monger
state-of-the-art
state-owned
state-paid
state-pensioned
state-provided
state-provisioned
state-pring
state-ridden
state-room
state-ruling
state-socialist
state-taxed
state-wide
state-wielding
stated cause
stated clerk
stated value
stateless person
stately home
stately-beauteous
stately-grave
stately-paced
stately-sailing
stately-storied
stately-written
statement covering the evidence
statement covering the facts
statement of belief
statement of claim
statement of defense
statement of facts
statement of principles
statement under oath
states general
states' righter
states' rights
states-people
static ceiling
static electricity
static field
static firing
static friction
static line
static propeller thrust
static stability
static tube
static water
station agent
station break
station day
station error
station hospital
station house
station hut
station identification
station interference
station jack
station keeping
station mark
station point
station pointer
station pole
station selector
station wagon
station-house
station-to-station
station-to-station call
stationary dive
stationary engine
stationary engineer
stationary engineering
stationary front
stationary orbit
stationary point
stationary state
stationary wave
stationery store
stations for diving
stations of the Cross
stations of the cross
statistical communication
statistical independence
statistical mechanics
statistical prediction
statistical probability
statistical survey
statistically probable
stato-
statu quo ante
statuary bronze
statuary marble
statue maker
statue making
statue of liberty
statue-blind
statue-bordered
statue-turning
statuelike repose
statues personal
status emphaticus
status in quo
status quo
status quo ante
status seeker
status symbol
status-seeking
statute book
statute fair
statute labor
statute law
statute merchant
statute mile
statute of limitations
statute roll
statute staple
statute-barred
statute-book
statutes mixed
statutory crime
statutory declaration
statutory law
statutory lien
statutory next of kin
statutory offense
statutory rape
statutory referendum
staunch belief
staunch friend
staunch friendship
stauro-
stave basket
stave in
stave oak
stave off
stave pipe
stave rhyme
stay alert
stay alive
stay aloof
stay at
stay at home
stay awake
stay away
stay away in droves
stay bar
stay boom
stay briefed
stay busk
stay chain
stay detached from
stay employed
stay for
stay foresail
stay girder
stay hole
stay in hiding
stay in line
stay in shape
stay in soundings
stay in the background
stay in the shade
stay inshore
stay it out
stay late
stay law
stay near
stay of execution
stay on
stay on the beam
stay on the treadmill
stay on your heels
stay on your tail
stay out
stay over
stay pin
stay plow
stay put
stay stitching
stay tackle
stay tap
stay the distance
stay tube
stay up
stay up for
stay up into the small hours
stay up late
stay with it
stay young
stay your hand
stay-a-while
stay-at-home
stay-bearer
stay-bolt
stay-in
stay-in strike
stay-log
stay-ship
stay-tape
staying over
staying power
staysail schooner
steadfast faith
steady market
steady nerves
steady pin
steady rest
steady so
steady state
steady state theory
steady temper
steady-eyed
steady-footed
steady-going
steady-handed
steady-handedness
steady-headed
steady-hearted
steady-looking
steady-minded
steady-nerved
steady-state theory
steady-state universe
steady-stream
steady as you go
steak and kidney pie
steak hammer
steak knife
steak raid
steak set
steak tartar
steak tartare
steal a march
steal a march on
steal a march upon
steal along
steal away
steal in
steal on the ear
steal the show
steal up on
steal your stuff
steal your thunder
steam at flank speed
steam bath
steam beer
steam blow
steam blower
steam boiler
steam boiler insurance
steam box
steam cabinet
steam carriage
steam case
steam chest
steam cleaner
steam cleaning
steam coal
steam cock
steam coil
steam color
steam condenser
steam cure
steam cylinder
steam digger
steam distillation
steam dome
steam dredger
steam drop
steam drop hammer
steam engine
steam engineer
steam engineering
steam excavator
steam feed
steam filature
steam fire engine
steam fit
steam fitter
steam fitting
steam fog
steam frigate
steam gas
steam gauge
steam gun
steam hammer
steam harvester
steam heat
steam heater
steam heating
steam in line
steam in line of bearing
steam injector
steam iron
steam jacket
steam jammer
steam joint
steam knife
steam lance
steam lap
steam launch
steam lead
steam line
steam locomotive
steam loop
steam mason
steam metal
steam molder
steam navvy
steam nigger
steam nozzle
steam organ
steam owner
steam packing
steam piano
steam pipe
steam piping
steam plow
steam point
steam port
steam power
steam press
steam printing
steam propulsion
steam pump
steam radiator
steam radio
steam ram
steam road
steam roller
steam room
steam schooner
steam shovel
steam sizes
steam sloop
steam stamp
steam still
steam table
steam tackle
steam thrasher
steam trap
steam tug
steam turbine
steam twill
steam up
steam valve
steam vessel
steam whistle
steam yacht
steam-boiler
steam-chest
steam-clean
steam-cleaned
steam-cooked
steam-cut
steam-distill
steam-dredge
steam-dried
steam-driven
steam-eating
steam-engine
steam-filled
steam-going
steam-heat
steam-heated
steam-lance
steam-lanced
steam-lancing
steam-laundered
steam-pocket
steam-processed
steam-propelled
steam-ridden
steam-roll
steam-roller
steam-shovel
steam-treated
steam-turbine
steam-turbine locomotive
steam-type
steam-wrought
steamboat Gothic
steamboat coal
steamboat gothic
steamboat ratchet
steamed pudding
steamed up
steamed up about
steamer anchorage
steamer basket
steamer captain
steamer chair
steamer clam
steamer contract
steamer crew
steamer cruise
steamer dock
steamer duck
steamer freight
steamer funnel
steamer hull
steamer landing
steamer lane
steamer line
steamer passenger
steamer port
steamer road
steamer route
steamer rug
steamer sailing
steamer service
steamer siren
steamer smoke
steamer smokestack
steamer subsidy
steamer ticket
steamer track
steamer traffic
steamer travel
steamer trunk
steamer voyage
steamer wharf
steamer whistle
steamer-borne
steaming up
steamroller methods
steamroller through
steamship coal
steamship company
steamship freight
steamship lane
steamship line
steamship mail
steamship office
steamship route
steamship service
steamship ticket
steamship traffic
steamship travel
steamship voyage
stearic acid
stearo-
stearoyl group
stearoyl radical
steato-
steel band
steel bar
steel baron
steel blue
steel bronze
steel company
steel concrete
steel construction
steel drawer
steel dresser
steel electrotYPE
steel emery
steel engraver
steel engraving
steel factory
steel fiber
steel glass
steel gray
steel grey
steel guitar
steel hand
steel lumber
steel magnate
steel man
steel manufacturer
steel manufacturing
steel master
steel measurer
steel merchant
steel mill
steel mirror
steel orchestra
steel pen
steel plate
steel presser
steel share
steel spring
steel square
steel string
steel town
steel trap
steel wire gauge
steel wool
steel yourself
steel-black
steel-blue
steel-bound
steel-bow
steel-bright
steel-cage
steel-cage construction
steel-capped
steel-cased
steel-clad
steel-clenched
steel-cold
steel-colored
steel-covered
steel-cut
steel-die printing
steel-digesting
steel-edged
steel-faced
steel-framed
steel-grained
steel-graven
steel-gray
steel-green
steel-hard
steel-hardened
steel-head
steel-headed
steel-hilted
steel-lined
steel-nerved
steel-pen
steel-plated
steel-pointed
steel-rimmed
steel-rivetted
steel-shafted
steel-sharp
steel-shod
steel-strong
steel-studded
steel-tempered
steel-tipped
steel-tired
steel-topped
steel-trap
steeled against
steelhead trout
steep price
steep slope
steep-ascending
steep-backed
steep-bending
steep-descending
steep-down
steep-faced
steep-gabled
steep-hanging
steep-pitched
steep-pointed
steep-rising
steep-roofed
steep-scarped
steep-sided
steep-streeted
steep-to
steep-up
steep-walled
steep-yawning
steeped in iniquity
steeped in vice
steeple bellflower
steeple cup
steeple engine
steeple hat
steeple headdress
steeple hunt
steeple hunter
steeple hunting
steeple jack
steeple race
steeple racer
steeple racing
steeple skull
steeple-crown
steeple-crowned
steeple-head
steeple-high
steeple-house
steeple-jacking
steeple-loving
steeple-roofed
steeple-shadowed
steeple-shaped
steeple-studded
steeple-topped
steer a middle course
steer a straight course
steer an even course
steer away from
steer clear of
steer for
steer oar
steer toward
steerage passenger
steering arm
steering axle
steering box
steering bridge
steering column
steering committee
steering crutch
steering engine
steering fan
steering fork
steering gear
steering handle
steering head
steering joint
steering knuckle
steering lever
steering light
steering line
steering lock
steering oar
steering pillar
steering wheel
stego-
stellar cosmogony
stellar magnitude
stellar photometry
stellate-crystal
stellate-crystal fungus
stellate-pubescent
stem anchor
stem blight
stem borer
stem break
stem canker
stem cell
stem climber
stem cutting
stem duchy
stem eelworm
stem end
stem father
stem from
stem ginger
stem girdler
stem leaf
stem length
stem mother
stem rot
stem rust
stem sapper
stem sawfly
stem sickness
stem smut
stem stitch
stem the current
stem the flood
stem the tide
stem turn
stem work
stem-bearing
stem-bud
stem-clasping
stem-end rot
stem-sick
stem-wind
stem-winder
stem-winding
stem-winding watch
sten-
stench bomb
stench of decay
stench trap
stencil cutter
stencil cutting
stencil machine
stencil painting
stencil paper
stencil pen
stencil printing
stencil paper
steno-
stenographing machine
stent net
stent roll
step along
step aside
step backward
step bearing
step box
step by step
step chair
step cut
step dance
step dancer
step dancing
step down
step fault
step flight
step forward
step function
step gauge
step grate
step in
step into a fortune
step into the limelight
step into the place of
step into the shoes of
step joint
step lively
step of time
step off
step on
step on it
step on its tail
step on the gas
step on your corns
step on your toes
step out
step out of
step over
step rail
step rate
step rocket
step socket
step stool
step tap
step terrace
step to the fore
step to the front
step turn
step up
step up the ladder
step ward
step wheel
step-
step-and-repeat
step-back
step-back relay
step-by-step
step-by-step switching
step-cline
step-cone
step-cone pulley
step-cut
step-down
step-down transformer
step-in
step-ins
step-ladder
step-log
step-off
step-on
step-parent
step-up
step-up transformer
steppe cat
steppe disease
steppe murrain
steppe rue
stepped line
stepped-up
stepping in
stepping line
stepping pace
stepping stone
stepping-off
stepping-off place
stepping-out
stepping-stone
stepping-stones
steps and measures
stercoral ulcer
sterculia gum
stere-
stero camera
stereo formula
stereo microphone
stereo-
stereophonic sound system
stereophonic system
stereoscopic microscope
stereospecific catalyst
stereospecific polymer
stereotyped behavior
stereotyped saying
sterling area
sterling bloc
sterling silver
stern anchor
stern board
stern boat
stern chase
stern chaser
stern fast
stern frame
stern gallery
stern gun
stern hatch
stern hatchway
stern hook
stern knee
stern ladder
stern line
stern race
stern rail
stern sea
stern sheets
stern staysail
stern timber
stern tube
stern walk
stern wave
stern wheel
stern window
stern-bearer
stern-board
stern-born
stern-browed
stern-chase
stern-chaser
stern-eyed
stern-faced
stern-fast
stern-featured
stern-gated
stern-issuing
stern-lipped
stern-looking
stern-minded
stern-mouthed
stern-post
stern-set
stern-sheet
stern-sounding
stern-spoken
stern-visaged
stern-wheel
stern-wheeler
sterno-
sterro metal
sterro-metal
stetho-
stevedore knot
stevedore's knot
stew in your own juice
stew over
steward's department
stewing chicken
sthula sharira
stib-
stibio-
stick around
stick around or about
stick at
stick at nothing
stick bean
stick bug
stick by
stick caterpillar
stick chair
stick close
stick closer than a brother
stick control
stick down
stick fast
stick figure
stick for
stick in
stick in the mud
stick in your craw
stick in your crop
stick in your gizzard
stick in your throat
stick insect
stick it
stick it out
stick lac
stick licorice
stick like a barnacle
stick like a leech
stick like a limpet
stick like a wet shirt
stick like glue
stick like the shadow of
stick like wax
stick of wood
stick out
stick out a mile
stick out like a sore thumb
stick out over
stick pin
stick rider
stick salve
stick shift
stick to
stick to it
stick to like a barnacle
stick to the
stick to the facts
stick to your colors
stick to your guns
stick to your knitting
stick to your last
stick together
stick up
stick up for
stick with
stick with it
stick your head in the sand
stick your long nose into
stick your neck out
stick your nose in
stick-at-it
stick-at-it-ive
stick-at-itive
stick-at-itness
stick-at-nothing
stick-back
stick-button
stick-candy
stick-dice
stick-ear
stick-in-the-mud
stick-jaw
stick-lac
stick-leg
stick-legged
stick-out
stick-ride
stick-to-it-iveness
stick-to-itive
stick-to-itively
stick-to-itness
stick-up
sticker-in
sticker-on
sticker-up
sticking out
sticking piece
sticking place
sticking plaster
sticking point
sticking power
sticking salve
sticking tommy
stickle for
sticks and stones
sticks, the
sticktight flea
stickup job
stickup man
sticky dog
sticky end
sticky fingers
sticky mess
sticky tape
sticky weather
sticky wicket
sticky willie
sticky-eyed
sticky-fingered
stiff as a poker
stiff as buckram
stiff aster
stiff bit
stiff breeze
stiff climb
stiff collar
stiff gentian
stiff market
stiff neck
stiff price
stiff temper
stiff wind
stiff-arm
stiff-armed
stiff-backed
stiff-bearded
stiff-bent
stiff-billed
stiff-bodied
stiff-bolting
stiff-boned
stiff-bosomed
stiff-branched
stiff-built
stiff-clay
stiff-collared
stiff-docked
stiff-dressed
stiff-eared
stiff-grown
stiff-haired
stiff-horned
stiff-ironed
stiff-jointed
stiff-jointedness
stiff-kneed
stiff-lamb disease
stiff-land
stiff-leathered
stiff-leaved
stiff-legged
stiff-limbed
stiff-lipped
stiff-minded
stiff-mud
stiff-neck
stiff-necked
stiff-necked pride
stiff-neckedly
stiff-neckedness
stiff-plate
stiff-pointed
stiff-rimmed
stiff-rumped
stiff-rusting
stiff-shanked
stiff-skirted
stiff-starched
stiff-stretched
stiff-swathed
stiff-tailed
stiff-uddered
stiff-veined
stiff-winged
stiff-witted
stiffen your backbone
stiffening bar
stiffening order
stiffening truss
stiffleg derrick
stile bone
stile joint
stile shoe
stile-out
stigma disk
stigmal vein
stigmatic grating spectrograph
stil-de-grain yellow
stilbene dye
stilbene color
stileto fly
stileto heel
stiletto-proof
stiletto-shaped
still alarm
still and all
still as a mouse
still as a statue
still as death
still box
still camera
still head
still hunt
still life
still lifes
still liquor
still more
still photograph
still return
still room
still small voice
still small voice within
still trailer
still watcher
still water
still wine
still-admired
still-birth
still-born
still-burn
still-closed
still-continued
still-continuing
still-diminishing
still-existing
still-fish
still-fisher
still-fishing
still-florid
still-flowing
still-fresh
still-gazing
still-hunt
still-hunter
still-hunting
still-improving
still-increasing
still-life
still-life painter
still-life painting
still-living
still-new
still-pagan
still-pining
still-recurring
still-refuted
still-renewed
still-repaired
still-rocking
still-room
still-sick
still-slaughtered
still-stand
still-unmarried
still-vexed
still-watching
still-young
stilling box
stilling well
stilt bug
stilt palm
stilt petrel
stilt plover
stilt sandpiper
stilt wheel
stilt-legged
stimulus coefficient
stimulus error
stimulus generalization
stimulus threshold
stimulus word
stimulus-response
stimulus-response psychology
sting bladder
sting moth
sting nettle
sting of conscience
sting ray
sting to the quick
sting winkle
stinging capsule
stinging cell
stinging defeat
stinging hair
stinging nettle
stingless bee
stink ball
stink bell
stink bomb
stink brand
stink bug
stink cat
stink fly
stink gland
stink grass
stink in the nostrils
stink out
stink trap
stink up
stink-horn
stink-pot
stinking badger
stinking cedar
stinking clover
stinking drunk
stinking iris
stinking mayweed
stinking roger
stinking smut
stinky pinkie
stipple board
stipple engraving
stipple paper
stipple streak
stipulate for
stir about
stir bird
stir feelings
stir of air
stir one's blood
stir the blood
stir the embers
stir the feelings
stir the fire
stir up
stir up a hornet's nest
stir up trouble
stir your bile
stir your stumps
stir-fry
stir-up
stirred up
stirring up
stirring-up
stirrup bar
stirrup bone
stirrup cover
stirrup cup
stirrup dram
stirrup glass
stirrup iron
stirrup jar
stirrup leather
stirrup oil
stirrup pump
stirrup strap
stirrup-vase
stitch in the side
stitch of work
stitch rivet
stitch watermark
stitch wheel
stitching horse
stochastic independence
stochastic matrix
stock account
stock assessment
stock beer
stock beet
stock block
stock board
stock book
stock buckle
stock car
stock card
stock cattle
stock certificate
stock certificate
stock change
stock clerk
stock company
stock dealer
stock dealing
stock dividend
stock dove
stock duck
stock eagle
stock exchange
stock family
stock farm
stock farmer
stock farming
stock feeder
stock fire
stock ticker
stock type
stock up
stock vaccine
stock whaap
stock whip
stock-blind
stock-broker
stock-car
stock-car race
stock-dove
stock-dumb
stock-exchange broker
stock-fish
stock-gillyflower
stock-in-trade
stock-job
stock-jobber
stock-jobbing
stock-route
stock-still
stock-taking
stock-work
stockbroker belt
stockholder of record
stocking board
stocking cap
stocking cutter
stocking cutter tool
stocking filler
stocking frame
stocking hose
stocking knitter
stocking knitting
stocking loom
stocking machine
stocking maker
stocking making
stocking mask
stocking needle
stocking sole
stocking spinner
stocking stitch
stocking stuffer
stocking the mind
stocking trimmer
stocking weaver
stocking-foot
stocking-frame
stockless anchor
stocks and bonds
stocks machine
stooch-
stoke the fire
stoke up
stoke-hole
stole fee
stole mesh
stole-shaped
stolen goods
stolen property
stom-
stomach ache
stomach bucket
stomach condition
stomach cough
stomach piece
stomach poison
stomach pump
stomach staggers
stomach sweetbread
stomach tooth
stomach tube
stomach ulcer
stomach upset
stomach worm
stomach-ache
stomach-achy
stomach-filling
stomach-formed
stomach-hating
stomach-healing
stomach-qualmed
stomach-shaped
stomach-sick
stomach-soothing
stomach-tight
stomach-turning
stomach-twitched
stomach-weary
stomach-whetted
stomach-worn
stomat-
stomato-
stomodaeal food
stone age
stone ax
stone axe
stone bag
stone basil
stone bass
stone blue
stone boiling
stone bolt
stone borer
stone brake
stone bramble
stone breaker
stone breaking
stone brick
stone bruise
stone butter
stone canal
stone carver
stone cat
stone cell
stone china
stone circle
stone clover
stone coal
stone collar
stone color
stone contractor
stone coral
stone crab
stone crayfish
stone cricket
stone crusher
stone curlew
stone devil
stone dresser
stone dressing
stone falcon
stone fence
stone fern
stone fly
stone fox
stone fruit
stone grape
stone gray
stone green
stone grig
stone hammer
stone harmonicon
stone hawk
stone in your path
stone jug
stone leek
stone lichen
stone lifter
stone lily
stone lime
stone lugger
stone marten
stone mill
stone mint
stone money
stone oak
stone ocher
stone oil
stone orpine
stone owl
stone parsley
stone perch
stone picker
stone pine
stone pit
stone pitch
stone plover
stone proof
stone rag
stone roller
stone rue
stone run
stone runner
stone saw
stone sclerenchyma
stone sculpture
stone shifter
stone snipe
stone sucker
stone thrush
stone to death
stone toter
stone wall
stone wine
stone wire
stone writing
stone yellow
stone's throw
stone-arched
stone-asleep
stone-axe
stone-bladed
stone-blind
stone-blindness
stone-bow
stone-broke
stone-brown
stone-bruised
stone-buff
stone-built
stone-cleaving
stone-coated
stone-cold
stone-colored
stone-covered
stone-cutter
stone-cutting
stone-darting
stone-dead
stone-deaf
stone-deafness
stone-dumb
stone-dust
stone-eared
stone-eating
stone-edged
stone-eyed
stone-faced
stone-floored
stone-fruit
stone-ground
stone-hand
stone-hard
stone-headed
stone-horse
stone-lily
stone-lined
stone-living
stone-milled
stone-moving
stone-parsley
stone-paved
stone-pillared
stone-pine
stone-ribbed
stone-rolling
stone-roofed
stone-silent
stone-smickle
stone-still
stone-throwing
stone-using
stone-vaulted
stone-wall
stone-walled
stone-walling
stoned-horse
stoner-out
stoney gate
stony coral
stony heart
stony pit
stony-blind
stony-broke
stony-eyed
stony-faced
stony-hearted
stony-heartedly
stony-heartedness
stony-jointed
stony-pitiless
stony-toed
stony-winged
stooge around
stool ball
stool end
stool land
stool pigeon
stool-ball
stoop-gallant
stoop-shouldered
stooping from your high place
stop at nothing
stop bath
stop head
stop blowing
stop breathing
stop by
stop chorus
stop clause
stop clock
stop cold
stop consonant
stop dead
stop dead in your tracks
stop down
stop drill
stop finger
stop for breath
stop gauge
stop in
stop in your tracks
stop in or stop by
stop it
stop key
stop knob
stop light
stop list
stop log
stop looking
stop motion
stop needle
stop net
stop number
stop nut
stop odor
stop off
stop on
stop on a dime
stop order
stop out
stop over
stop payment
stop pin
stop plank
stop plate
stop press
stop rod
stop screw
stop seine
stop short
stop shot
stop spine
stop street
stop stroke
stop tester
stop the breath
stop the clock
stop the mouth of
stop thief
stop thrust
stop time
stop to consider
stop up
stop valve
stop volley
stop watch
stop wheel
stop work
stop your ears
stop your mouth
stop-and-go light
stop-cylinder press
stop-gap
stop-go
stop-loss
stop-loss order
stop-off
stop-open
stop-watch
stope drill
stopen bottle
stopped diapason
stopped flute
stopped up
stopper bolt
stopper hole
stopper knot
stopper's knot
stopping condenser
stopping knife
stopping out of time
stopping place
stopping train
storage battery
storage bellows
storage capacity
storage cell
storage device
storage disease
storage egg
storage heater
storage life
storage place
storage rot
storage space
storage spot
storage system
storage unit
storage wall
storax benzoin
storax family
store away
store card
store cheese
store clerk
store clothes
store detective
store dresser
store in the mind
store manager
store of knowledge
store order
store pay
store pig
store sign
store teeth
store the mind
store types
store up
store-bought
store-bought clothes
store-bought wear
store-boughten
store-room
store-ship
storefront school
storehouse of the mind
storehouse of words
stores ledger
storey house
storing the mind
stork's bill
stork's-bill
stork, the
stork-billed
stork-fashion
storm along
storm and stress
storm axis
storm bell
storm belt
storm boat
storm boot
storm breeder
storm cave
storm cellar
storm center
storm centre
storm cloud
storm clouds
storm coat
storm collar
storm cone
storm current
storm door
storm drain
storm drum
storm finch
storm flag
storm glass
storm gray
storm in
storm in a teacup
storm in a teapot
storm jib
storm kite
storm lane
storm lantern
storm mizzen
storm pennant
storm petrel
storm porch
storm rubber
storm sail
storm sash
storm serge
storm sewer
storm signal
storm stay
storm surge
storm thrush
storm track
storm tracking
storm trooper
storm troops
storm trysail
storm warning
storm wind
storm window
storm-armed
storm-beat
storm-beaten
storm-boding
storm-breathing
storm-cock
storm-drenched
storm-encompassed
storm-felled
storm-god
storm-laden
storm-lit
storm-portending
storm-presaging
storm-rent
storm-stayed
storm-swept
storm-tight
storm-tossed
storm-trooper
storm-washed
storm-wise
storm-worn
storm-wracked
storming party
stormy petrel
stormy weather
stormy winds
story element
story hour
story line
story post
story rod
story writer
story-teller
story-writing
story-wrought
stout fellow
stout heart
stout-armed
stout-billed
stout-bodied
stout-girthed
stout-hearted
stout-heartedly
stout-legged
stout-limbed
stout-looking
stout-minded
stout-ribbed
stout-sided
stout-soled
stout-stalked
stout-stomached
stout-winged
straight as an edge
straight away
straight bat
straight bill of lading
straight chain
straight chair
straight coil
straight course
straight deck
straight drama
straight face
straight fight
straight flush
straight forth
straight forward
straight from the shoulder
straight grain
straight hair shingle
straight jacket
straight joint
straight life insurance
straight line
straight man
straight matter
straight off
straight part
straight poker
straight razor
straight sailing
straight shooter
straight stall
straight stretch
straight thinking
straight ticket
straight time
straight to the mark
straight up
straight up and down
straight up-and-downness
straight whiskey
straight-arm
straight-backed
straight-barred
straight-barreled
straight-billed
straight-bitted
straight-bodied
straight-body
straight-tusked
straight-up
straight-up-and-down
straight-veined
straight-winged
straighten out
straighten up
straighten yourself out
straightway drill
strain at
strain band
strain diagram
strain ellipsoid
strain every nerve
strain every nerve and sinew
strain for
strain gauge
strain hardening
strain insulator
strain normal
strain sheet
strain the meaning
strain the muscles
strain the sense
strain the throat
strain the truth
strain the voice
strain theory
strain your attention
strain your credulity
strain your ears
strain your eyes
strain your invention
strained relations
strainer arch
strainer core
strainer gate
strainer vine
straining arch
straining beam
straining frame
straining piece
straining sill
strainslip cleavage
strait jacket
strait waistcoat
strait-besieged
strait-bodied
strait-braced
strait-breasted
strait-breeched
strait-chested
strait-clothed
strait-coated
strait-embraced
strait-jacket
strait-knotted
strait-lace
strait-laced
strait-lacedly
strait-lacedness
strait-lacer
strait-lacing
strait-necked
strait-sleeved
strait-tied
strait-toothed
strait-waistcoat
strait-waisted
straitened circumstances
strait dollar
strand fishery
strand flat
strand former
strand line
strand plover
strand rat
strand snipe
strand wolf
strange duck
strange particle
strange thing
strange to
strange to say
strange woman
strange-achieved
strange-clad
strange-colored
strange-composed
strange-disposed
strange-fashioned
strange-favored
strange-garbed
strange-looking
strange-met
strange-plumaged
strange-sounding
strange-tongued
strange-voiced
strange-wayed
stranger's gallery
strangers' gallery
strangle hold
strangled blade
strangler tree
strangulated hernia
strap bolt
strap brake
strap drill
strap fern
strap game
strap hammer
strap hinge
strap iron
strap joint
strap key
strap oil
strap oyster
strap rail
strap railroad
strap railway
strap watch
strap work
strap-hinge
strap-laid
strap-leaved
strap-oil
strap-shaped
strapping motion
strapping plate
strategic air force
strategic bombing
strategic line
strategic materials
strategic plan
strategic point
strati-
stratificational grammar
stratified charge engine
stratified discharge
stratigraphic geology
strato-
strato-cirrus
strato-cumulus
stratocumulus castellanus
stratocumulus castellatus
stratocumulus floccus
stratocumulus lenticularis
stratosphere balloon
stratus cloud
stratus cumuliformis
stratus fractus
stratus maculosus
stratus nebulosus
straw bail
straw ballot
straw basher
straw bass
straw bid
straw bidder
straw bond
straw boss
straw cat
straw color
straw death
straw drain
straw fiddle
straw hat
straw in the wind
straw man
straw needle
straw oil
straw plait
straw ride
straw sedge
straw splitter
straw stem
straw to show the wind
straw vote
straw wedding
straw wine
straw yellow
straw-barreled
straw-boss
straw-breadth
straw-built
straw-capped
straw-colored
straw-crowned
straw-cutting
straw-dried
straw-emboveled
straw-hatted
straw-laid
straw-necked
straw-plaiter
straw-plaiting
straw-roofed
straw-shoe
straw-splitting
straw-stuffed
straw-thatched
strawberry bass
strawberry blite
strawberry blond
strawberry blonde
strawberry borer
strawberry bush
strawberry cactus
strawberry clover
strawberry comb
strawberry crab
strawberry crown borer
strawberry crown moth
strawberry dish
strawberry fern
strawberry finch
strawberry fleabeetle
strawberry fly
strawberry geranium
strawberry guava
strawberry leaf
strawberry leaf blight
strawberry leaf roller
strawberry leaf spot
strawberry mark
strawberry moth
strawberry nettle
strawberry pear
strawberry perch
strawberry pink
strawberry raspberry
strawberry roan
strawberry root aphid
strawberry root borer
strawberry root weevil
strawberry rootworm
strawberry rust
strawberry sawfly
strawberry saxifrage
strawberry shrub
strawberry spinach
strawberry sunburn
strawberry tassel
strawberry tomato
strawberry tongue
strawberry tree
strawberry vine
strawberry weevil
strawberry-blond
strawberry-raspberry
strawberry-shrub family
strawhat circuit
strawhat theater
stray capacitance
stray current
stray energy
stray line
stray-line
streak culture
streak lightning
streak of lightning
streak of luck
streak plate
streaked-back
stream action
stream anchor
stream and dogs
stream bed
stream cable
stream capture
stream conservation
stream driver
stream forth
stream function
stream gold
stream ice
stream jam
stream of air
stream of consciousness
stream of fashion
stream of light
stream of time
stream piracy
stream the log
stream tin
stream wheel
stream-bordering
stream-drive
stream-embroidered
stream-illumed
stream-line
stream-of-consciousness
stream-of-consciousness novel
streamer aurora
streamer fly
streaming light
streaming potential
streamline flow
streams of rain
streams of sweat
street Arab
street academy
street arab
street band
street broker
street certificate
street cleaner
street coach
street cry
street door
street dress
street elbow
street fight
street floor
street game
street girl
street market
street name
street of fallen women
street orderly
street organ
street people
street piano
street plate
street price
street railway
street singer
street sweeper
street urchin
street virus
street-bred
street-cleaning
street-door
street-pacing
street-raking
street-sold
street-sprinkling
street-sweeping
street-walker
streetcar line
strength change
strength deck
strength of mind
strength of purpose
strength of will
strength-bringing
strength-conferring
strength-decaying
strength-giving
strength-increasing
strength-inspiring
strength-restoring
strength-sustaining
strength-testing
strengthening lead
strengthening card
strep throat
strepto-
streptococcus tonsilitis
stress accent
stress and strain
stress arsis
stress diagram
stress group
stress of life
stress pattern
stress reaction
stress sheet
stress-strain
stress-strain curve
stress-verse
stressed skin
stretch away to
stretch fabric
stretch forth a helping hand
stretch forth your hand
stretch mill
stretch modulus
stretch of the imagination
stretch of time
stretch out
stretch pants
stretch stockings
stretch the legs
stretch the meaning
stretch the sense
stretch the truth
stretch to
stretch your legs
stretch your luck
stretch yourself
stretch-out
stretched out
stretched tight
stretched-out
stretcher bar
stretcher bond
stretcher-bearer
stretching course
stretching everywhere
stretching of the truth
stretching out
stretching piece
stretching your luck
stretching-out
striato-
stricken dumb
stricken in years
stricken with amnesia
stricken with years
strickle bar
strict attention
strict construction
strict constructionism
strict constructionist
strict discipline
strict interpretation
strict law
strict minded
strict neutrality
strict settlement
strictly between us
strictly cash
strictly decreasing function
strictly increasing function
strictly speaking
stride-legged
strident-voiced
striding compass
striding level
strife-breeding
strife-healing
strife-stirring
strike a balance
strike a bargain
strike a blow
strike a light
strike a pose
strike a responsive chord
strike a rich vein
strike against
strike all of a heap
strike an attitude
strike at
strike at the root of
strike back
strike benefit
strike bill
strike blind
strike block
strike board
strike camp
strike dead
strike down
strike dumb
strike enforcer
strike fault
strike figure
strike fire
strike hands
strike hard
strike home
strike in
strike in with
strike insurance
strike it lucky
strike it rich
strike joint
strike knife
strike me dead
strike measure
strike mute
strike note
strike off
strike off the roll
strike off the rolls
strike oil
strike out
strike out at
strike out for
strike out for yourself
strike pan
strike pay
strike plane
strike plate
strike radar scanner
strike root
strike root in
strike shift
strike slip
strike tent
strike terror into
strike the death knell of
strike the eye
strike the first blow
strike the flag
strike the mind
strike through
strike up
strike up a friendship
strike up a tune
strike up the band
strike upon
strike valley
strike while the iron is hot
strike with awe
strike with wonder
strike you
strike you as
strike you right
strike your colors
strike your fancy
strike your flag
strike zone
strike-a-light
strike-anywhere match
strike-out
striker boat
striker of poses
striker plate
striker-out
striker-up
striking alteration
striking angle
striking bag
striking base
striking board
striking circle
striking distance
striking hammer
striking out
striking pin
striking plate
striking reed
striking resemblance
striking solution
striking stile
striking success
striking train
striking-out machine
strikingly like
string along
string along with
string alphabet
string band
string bass
string bead
string bean
string block
string choir
string correspondent
string course
string development
string diapason
string figure
string galvanometer
string instrument
string insulator
string lead
string leaf
string line
string musician
string orchestra
string organ
string out
string pea
string plate
string player
string pottery
string proof
string pump
string quartet
string section
string stop
string telephone
string tie
string together
string tone
string trio
string up
string-binding
string-colored
string-soled
string-tailed
string-toned
stringed instrument
stringer bar
stringer lode
stringer plate
stringer strake
stringing course
stringing out
stringy kelp
stringy sap
stringy-bark
stringybark pine
strinking-out
strip artist
strip away
strip bare
strip cartoon
strip clean
strip club
strip count
strip cropping
strip down
strip farm
strip farming
strip for action
strip lighting
strip line
strip map
strip method
strip mill
strip mine
strip mining
strip of office
strip of rank
strip off
strip out
strip pit
strip planting
strip poker
strip printing
strip survey
strip tease
strip template
strip to the buff
strip you of your illusions
strip-crop
strip-cropping
strip-teaser
stripe blight
stripe canker
stripe rust
stripe smut
striped bass
striped grass
striped hyena
striped maple
striped marlin
striped snake
striped spermophile
striped squirrel
striped-leaved
stripped atom
stripped bare
stripped down
stripped of
stripped of illusion
stripped to the buff
stripper-harvester
stripping bare
stripping down
stripping liquor
stripping of rank
strive about
strive against
strive for
strive to
strive with
strode light
strode lighting
stroboscopic light
stroboscopic photography
stroke culture
stroke hole
stroke oar
stroke oarsman
stroke of death
stroke of lightning
stroke of luck
stroke of policy
stroke of the hour
stroke of the pen
stroke of wit
stroke of work
stroke play
stroke stitch
stroker-in
strolling gait
strolling minstrel
strolling player
strong accumulation point
strong argument
strong arm
strong as a horse
strong as a lion
strong as an ox
strong as brandy
strong as flesh and blood
strong as strong
strong belief
strong bid
strong breeze
strong derived set
strong drink
strong flair
strong gale
strong hand
strong in
strong interaction
strong language
strong man
strong market
strong meat
strong nerves
strong point
strong pull
strong relief
strong right hand
strong room
strong suit
strong water
strong waters
strong wind
strong-ankled
strong-arm
strong-arm man
strong-arm tactics
strong-armed
strong-armer
strong-backed
strong-bodied
strong-boned
strong-box
strong-breathed
strong-decked
strong-elbowed
strong-featured
strong-fibered
strong-fisted
strong-flavored
strong-handed
strong-headed
strong-jawed
strong-jointed
strong-limbed
strong-looking
strong-lunged
strong-man
strong-minded
strong-mindedly
strong-mindedness
strong-nerved
strong-pointed
strong-quartered
strong-ribbed
strong-scented
strong-seated
strong-set
strong-sided
strong-smelling
strong-stapled
strong-stomached
strong-tasted
strong-tasting
strong-tempered
strong-tested
strong-trunked
strong-voiced
strong-weak
strong-willed
strong-winged
strong-wristed
strongbox security
strontia digger
strontia process
strontian white
strontian yellow
strontium 90
strontium hydroxide
strontium monoxide
strontium nitrate
strontium oxide
strontium process
strontium salicylate
strontium unit
strontium white
strontium yellow
struck all of a heap
struck jury
struck measure
struck up
struck with
struck with surprise
structural botany
structural drag
structural engineer
structural engineering
structural fatigue
structural formula
structural gene
structural geology
structural grammar
structural iron
structural linguistics
structural meaning
structural mill
structural outline
structural polysaccharide
structural psychology
structural shop
structural steel
structural-steel
structure contours
struggle against
struggle for
struggle for existence
struggle up
struggle with
strung out
strung up
strut beam
strut your stuff
strutting piece
stub axle
stub feather
stub file
stub hoe
stub iron
stub mortise
stub nail
stub pen
stub short
stub shot
stub switch
stub tenon
stub tooth
stub track
stub twist
stub your toe
stub your toe upon
stub-bearded
stub-end
stub-end feeder
stub-pointed
stub-thatched
stub-toed
stub-wing stabilizer
stubble crop
stubble field
stubble goose
stubble mulch
stubble plow
stubble pulverizer
stubble quail
stubble rake
stubble shaver
stubble spurge
stubble-fed
stubble-loving
stubble-mulch farming
stubborn as a mule
stubborn fact
stubborn-chaste
stubborn-hard
stubborn-minded
stubborn-shafted
stubborn-stout
stubby-fingered
stucco pointer
stucco-adorned
stucco-fronted
stucco-molded
stucco-walled
stuck fast
stuck on
stuck on yourself
stuck-up
stuck-upness
stuck-upper
stuck-uppish
stuck-uppishness
stuck-uppy
stud block
stud bolt
stud book
stud box
stud chain
stud driver
stud fee
stud link
stud mating
stud poker
stud print
stud rivet
stud scab
stud screw
stud wall
stud wheel
stud-horse
stud-mare
stud-pink
stud-sail
studded tire
studding bolt
studding sail
studding-sail
studding-sail halyard bend
student adviser
student assistant
student council
student glider
student government
student hour
student lamp
student nurse
student pastor
student teacher
student teaching
student union
student volunteer
studhorse poker
studio apartment
studio couch
studio plant
study for
study group
study hall
study in still life
study to
study to be
study up
study up on
study with
study your part
study-bearing
study-bred
study-given
study-loving
study-racked
study-worn
stuff and nonsense
stuff chest
stuff engine
stuff gown
stuff hat
stuff in
stuff the mind
stuff the mind with
stuff up
stuff with knowledge
stuff yourself
stuff-chest
stuff-gownsman
stuff-over
stuffed cabbage
stuffed derma
stuffed eggs
stuffed grape leaves
stuffed peppers
stuffed shirt
stuffed to the gills
stuffed tomatoes
stuffed up
stuffed-over
stuffing and stripping
stuffing box
stuffing nut
stuffing-box recess
stuffy weather
stultify yourself
stumble on
stumble upon
stumbling block
stumbling stone
stumbling-block
stump bed
stump burning
stump da
stump excursion
stump extractor
stump foot
stump it
stump joint
stump jumper
stump mast
stump mortise
stump orator
stump puller
stump ranch
stump rot
stump speaker
stump speaking
stump speech
stump spud
stump sucker
stump tail
stump tenon
stump the country
stump topmast
stump tracery
stump tree
stump up
stump wood
stump work
stump-fingered
stump-footed
stump-jump
stump-jump plow
stump-jumping plow
stump-legged
stump-nosed
stump-rooted
stump-tail
stump-tailed
stump-tailed lizard
stumping tour
stunner hitch
stunt flier
stunt flying
stunt girl
stunt man
stunt woman
stupefied with boredom
stupefyingly boring
stupid as
stupid grin
stupid thing
stupid work
stupid-acting
stupid-headed
stupid-honest
stupid-looking
stupid-sure
stuporous melancholia
stuporous with boredom
sturdy as an ox
sturdy-chested
sturdy-legged
sturdy-limbed
sturm und drang
styl-
style branch
style galant
style of writing
style pen
style sheet
style the hair
style-conscious
style-consciousness
styles of
stylistic analysis
stylo-
stylograph pen
stylographic pen
styloid process
styour throw
styptic pencil
styrallyl acetate
styrene resin
suan pan
suarrow nut
suave-looking
suave-mannered
suave-spoken
sub arid
sub for
sub judice
sub post office
sub rosa
sub specie aeternitatis
sub verbo
sub voce
sub-
sub-Andean
sub-Atlantic
sub-Carpathian
sub-Christian
sub-Himalayan
sub-Pontine
sub-Pyrenean
sub-agent
sub-arch
sub-assembly
sub-base
sub-constable
sub-district
sub-edit
sub-editor
sub-head
sub-human
sub-jugate
sub-lease
sub-let
sub-level
sub-lieutenant
sub-machine-gun
sub-man
sub-officer
sub-prefect
sub-rosa
sub-title
sub-treasurer
sub-treasury
sub-war
sub-zero
subacute rheumatism
subaerial deposit
subaltern genus
subarctic current
subassembly plant
subatomic particle
subatomic particles
subclavian artery
subclavian groove
subclavian vein
subclinical infection
subcloud car
subconscious drive
subconscious knowledge
subconscious mind
subconscious perception
subconscious self
subconscious urge
suberic acid
subero-
subhymenal layer
subject case
subject catalog
subject catalogue
subject for thought
subject index
subject matter
subject of thought
subject substantive
subject term
subject to
subject to a duty
subject to a fee
subject to a tax
subject to call
subject to close scrutiny
subject to death
subject yourself
subject-matter
subject-object
subject-objectivity
subject-raising
subjective certainty
subjective complement
subjective idealism
subjective idealist
subjective inspection
subjective speculation
subjective spirit
subjectivo-
subjectivo-objective
subjunct adjective
subjunct word
sublimation pressure
sublimation vein
sublime tobacco
subliminal advertising
subliminal perception
subliminal self
sublimity summit
submachine gun
submarine badge
submarine chaser
submarine killer
submarine mine
submarine patrol boat
submarine sandwich
submarine sentry
submarine telegraphy
submarine tender
submarine torpedo
submarine warfare
submaxillary gland
submerged coast
submerged in
submerged mind
submerged-tube boiler
subminiature camera
submit to
submit to indignity
submit with a good grace
suboctave coupler
subordinate clause
subordinate conjunction
subordinate ordinary
subordinate role
subordinate to
subordinate yourself
subordinating conjunction
subornation of perjury
subpoena ad testificandum
subpoena duces tecum
subscribe to
subscriber trunk dialling
subscription book
subscription concert
subscription edition
subscription library
subscription list
subscription television
subsequent to
subsidiary coin
subsidiary company
subsidiary sense
subsidy citizen
subsidy man
subsist in
subsistence agriculture
subsistence allowance
subsistence department
subsistence farming
subsistence level
subsistence money
subsistence stores
subsistent form
subsoil plough
subsoil plow
subsonic flight
subsonic jet
subsonic speed
subspace topology
substance of life
substandard language
substandard speech
substandard usage
substantial meal
substantiality theory
substantially true
substantive basis
substantive law
substantive point
substantive rank
substantive right
substitute for
substitution cipher
substitution deposit
substitution group
substitution tables
substitution therapy
substitution vein
subsurface tillage
subtarget machine
subtense bar
subter-
subterranean river
subtle body
subtle color
subtle distinction
subtle influence
subtle odor
subtle wit
subtle-brained
subtle-cadenced
subtle-fingered
subtle-headed
subtle-looking
subtle-meshed
subtle-minded
subtle-nosed
subtle-paced
subtle-scented
subtle-shadowed
subtle-souled
subtle-thoughted
subtle-tongued
subtle-witted
subtraction logarithm
subtraction mark
subtraction sign
subtractive color
subtractive primary
subtractive process
subtropical anticyclone
subtropical high
suburban market
subvalent electrons
subzero weather
succade gourd
succeed in
succeed to
succeed to the throne
succeed with
succes d'estime
succes de scandale
success fou
success story
successful advocate
successful defender
successful person
succession duty
succession of ideas
succession of thought
succession of time
succession state
succin-
succinic acid
succino-
succory blue
succumb to
such and such
such as
such being the case
such stuff as dreams are made on
such stuff as dreams are made on
such-and-such
such-like
suck dry
suck fly
suck in
suck into
suck off
suck out
suck the blood from
suck the blood of
suck up
suck up to
suck your blood
suck your breath
suck your wind
suck-
suck-bottle
suck-egg
suck-in
sucked dry
sucked into
sucker bait
sucker foot
sucker for
sucker list
sucker rod
sucket fork
sucking louse
sucking pig
sucking-fish
sucking-pig
sucking-pump
suckling pig
sucro-
suction anemometer
suction chamber
suction cleaner
suction cup
suction dredge
suction flask
suction hose
suction machine
suction pipe
suction primer
suction producer
suction pump
suction root
suction stop
suction stroke
suction sweeper
suction valve
sudan grass
sudden and quick in quarrel
sudden attack
sudden change
sudden death
sudden development
sudden impulse
sudden infant death syndrome
sudden or radical change
sudden pull
sudden thought
sudden turn
sudden-beaming
sudden-starting
sudden-whelming
sue at law
sue for
sue for divorce
sue out
sue to
suede cloth
suede gloves
suet pudding
suet refiner
suffer a misfortune
suffer an eclipse
suffer anguish
suffer for
suffer hanging
suffer hearing impairment
suffer hearing loss
suffer loss
suffer pain
suffer pangs of jealousy
suffer the consequences
suffer the penalty
sufferance wharf
suffering angst
sugar of lead
sugar of milk
sugar off
sugar orchard
sugar over
sugar palm
sugar pea
sugar pear
sugar pine
sugar planter
sugar planting
sugar pumpkin
sugar puncture
sugar refiner
sugar refinery
sugar refining
sugar shell
sugar sifter
sugar sorghum
sugar spoon
sugar squirrel
sugar tongs
sugar tree
sugar vinegar
sugar wrack
sugar-baker
sugar-beet webworm
sugar-bird
sugar-boiling
sugar-bush
sugar-candy
sugar-cane
sugar-cane beetle
sugar-cane borer
sugar-cane gummosis
sugar-cane mosaic
sugar-cane root disease
sugar-cane smut
sugar-chopped
sugar-chopper
sugar-coat
sugar-coated
sugar-coating
sugar-colored
sugar-cured
sugar-destroying
sugar-growing
sugar-laden
sugar-lipped
sugar-loaded
sugar-loaf
sugar-loafed
sugar-loving
sugar-making
sugar-maple
sugar-maple borer
sugar-mouthed
sugar-plum
sugar-producing
sugar-sop
sugar-sweet
sugar-teat
sugar-tit
sugar-topped
sugar-water
sugar-yielding
sugared almond
sugarhouse molasses
sugaring off
suggest itself
suggest the earmarks of
suggestio falsi
suggestion therapy
suggestive of
sui generis
sui juris
suicidal despair
suicide clause
suicide club
suicide pact
suicide pilot
suicide plane
suicide squeeze
suicide squeeze play
suit and service
suit at law
suit case
suit court
suit down to the ground
suit in law
suit of armor
suit of clothes
suit service
suit the action to the word
suit the occasion
suit the season
sulfuryl group
sulfuryl radical
sulky lister
sulky plow
sulky-shaped
sulla clover
sullage head
sullen looks
sullen rabies
sullen-browed
sullen-eyed
sullen-looking
sullen-natured
sullen-seeming
sullen-sour
sullen-visaged
sullen-wise
sulph-
sulpha drug
sulphanilic acid
sulphate green
sulphate paper
sulphate process
sulphate pulp
sulphate ultramarine
sulphato-
sulphide color
sulphide dye
sulphide toning
sulphindigotic acid
sulphine color
sulphine yellow
sulphite brown
sulphite pulp
sulpho salt
sulpho-
sulpho-acid
sulpho-salt
sulphocarbon oil
sulphon cyanine
sulphon cyanine black
sulphonic acid
sulphonium compound
sulphur acid
sulphur alcohol
sulphur bacteria
sulphur black
sulphur butterfly
sulphur candle
sulphur chloride
sulphur color
sulphur dioxide
sulphur dye
sulphur ether
sulphur family
sulphur granule
sulphur lime
sulphur match
sulphur monochloride
sulphur oil
sulphur olive oil
sulphur ore
sulphur paste
sulphur plant
sulphur rain
sulphur rose
sulphur shower
sulphur subchloride
sulphur toning
sulphur trioxide
sulphur vivum
sulphur water
sulphur whale
sulphur yellow
sulphur-bearing
sulphur-bellied
sulphur-bottom
sulphur-bottom whale
sulphur-breasted
sulphur-colored
sulphur-containing
sulphur-crested
sulphur-flower
sulphur-hued
sulphur-impregnated
sulphur-scented
sulphur-smoking
sulphur-tinted
sulphur-tipped
sulphureo-
sulphureo-aerial
sulphuretted hydrogen
sulphuric acid
sulphurous acid
sultan flower
sultan red
sultana bird
sultana roll
sultry weather
sum and substance
sum of money
sum of things
sum to
sum total
sum und substance
sum up
sum up your case
sum-total
sum-up
sumac family
sumac wax
summa cum laude
summary court-martial
summary judgment
summary justice
summary negative
summary offence
summary proceeding
summation curve
summation method
summation tone
summer aster
summer barley
summer camp
summer cholera
summer complaint
summer coot
summer crookneck
summer cypress
summer day
summer dew grass
summer diarrhea
summer disease
summer duck
summer egg
summer ermine
summer fallow
summer finch
summer flounder
summer forest
summer grape
summer hail
summer haw
summer heat
summer heliotrope
summer herring
summer house
summer hyacinth
summer kitchen
summer lightning
summer lilac
summer oil
summer parlor
summer pudding
summer queening
summer rape
summer rash
summer redbird
summer resort
summer sausage
summer savory
summer school
summer sheldrake
summer snipe
summer snowflake
summer soldier
summer solstice
summer sore
summer spore
summer squash
summer stock
summer stone
summer suit
summer sweet
summer tanager
summer teal
summer theater
summer time
summer tree
summer truffle
summer wagtail
summer warbler
summer wheat
summer yellowbird
summer yellowlegs
summer's day
summer-bird
summer-blanced
summer-breathing
summer-brewed
summer-bright
summer-cloud
sump shot
sump winze
sumping cut
sumping shot
sumpter horse
sumpter mule
sumptuary law
sumptuary laws
sumptuary ordinances
sums total
sun animalcule
sun arc
sun bark
sun bath
sun bather
sun bear
sun bittern
sun blind
sun blindness
sun burner
sun clock
sun compass
sun crack
sun cult
sun cure
sun dance
sun date
sun deck
sun disc
sun disk
sun dog
sun fern
sun fever
sun flag
sun fruit
sun gall
sun gear
sun gem
sun god
sun gods
sun grass
sun grebe
sun hat
sun helmet
sun hemp
sun in glory
sun in splendor
sun lamp
sun letter
sun letters
sun lounge
sun moss
sun pan
sun parlor
sun perch
sun picture
sun pillar
sun plane
sun plant
sun porch
sun power
sun print
sun printing
sun rose
sun shower
sun side
sun snake
sun spark
sun spider
sun spot
sun spurge
sun star
sun suit
sun tan
sun temperature
sun time
sun trap
sun tree
sun trout
sun valve
sun view
sun visor
sun watch
sun wheel
sun worship
sun worshiper
sun worshiping
sun yourself
sun-affronting
sun-arrayed
sun-awakened
sun-baked
sun-bathe
sun-bathed
sun-beat
sun-beaten
sun-grebe
sun-grown
sun-heated
sun-illumined
sun-kissed
sun-loved
sun-loving
sun-made
sun-marked
sun-melted
sun-nursed
sun-outshining
sun-pain
sun-painted
sun-paled
sun-praising
sun-printed
sun-projected
sun-ray
sun-red
sun-resembling
sun-scorched
sun-scorching
sun-shading
sun-shot
sun-shunning
sun-sodden
sun-specs
sun-spot
sun-staining
sun-steeped
sun-struck
sun-swart
sun-swept
sun-tanned
sun-tight
sun-up
sun-warm
sun-warmed
sun-withered
sunburst plaiting
sunburst pleats
sunday punch
sunday school
sunday-go-to-meeting
sunday-school
sunder tree
sundew family
sundra tree
sundry shop
sundry-colored
sundry-patterned
sundry-shaped
sunflower chest
sunflower oil
sunflower oil cake
sunflower tree
sunflower yellow
sung mass
sunk fence
sunk garden
sunk in iniquity
sunk in oblivion
sunk key
sunk relief
sunken garden
sunken part
sunken place
sunlight burner
sunn hemp
sunny side
sunny weather
sunny-clear
sunny-colored
sunny-faced
sunny-haired
sunny-looking
sunny-natured
sunny-red
sunny-side up
sunny-spirited
sunny-sweet
sunny-warm
sunray pleats
sunrise service
sunrise wall
sunrise watch
sunset brown
sunset clam
sunset glow
sunset gun
sunset of your days
sunset shell
sunset wall
sunset-blue
sunset-flushed
sunset-lighted
sunset-purpled
sunset-red
sunset-ripened
sunshine roof
sunshine-showery
sunshiny weather
sunspot cycle
sunspot numbers
sunspot period
sunspot zone
sunt tree
suo jure
suo loco
sup off
sup up
super cool
super royal
super royal octavo
super royal quarto
super-
super-acid
super-cooling
super-decompound
super-duper
super-pumper
super-royal
super-smooth
super-tanker
supercharged engine
supercilious superior
supercompression engine
superdense theory
superficial extension
superficial soundness
superficially sound
supergiant star
superheated air
superheterodyne circuit
superheterodyne receiver
superhigh frequency
superintendent engineer
superintendent general
superior conjunction
superior court
superior courts of Westminster
superior general
superior goods
superior planet
superior-general
superiority complex
superiors general
superiors-general
supernatural being
supernatural virtue
supernatural virtues
supernatural, the
supero-
supero-occipital
superposition principle
supersonic aerodynamics
supersonic combat plane
supersonic flight
supersonic flow detection
supersonic jet
supersonic research plane
supersonic rocket
supersonic speed
supersonic transport
supersonic wings
superstition-proof
superstructure deck
supervisory control
supper club
supple-jack
supple-kneed
supple-limbed
supple-minded
supple-mouth
supple-sinewed
supple-sliding
supple-visaged
supple-working
supple-wristed
supplemental plumage
supplementary angle
supplementary angles
supplementary benefit
supplementary reserves
supplementary story
supply base
supply bond
supply clergy
supply depot
supply minister
supply of short-term funds
supply on hand
supply preacher
supply price
supply services
supply ship
supply support
supplying electricity
support for
support life
support line
support mission
support politically
support proper
support trench
support yourself
supporting actor
supporting cast
supporting character
supporting distance
supporting evidence
supporting instrumentalist
supporting player
supporting role
supporting treatment
supportive relationship
supportive therapy
supposing that
suppressed desire
suppressio veri
suppressor grid
suppurative arthritis
suppurative inflammation
supra-
supra-abdominal
supra-acromial
supra-aerial
supra-anal
supra-angular
supra-arytenoid
supra-auditory
supra-auricular
supra-axillary
supra-esophageal
supra-esophageal
supra-ethmoid
supra-intestinal
supracardinal vein
supralinear punctuation
supranational government
suprapartisan leadership
suprarational automatism
suprarational automatist
suprarenal gland
suprasegmental phoneme
suprasternal notch
supratrochlear nerve
supreme being
supreme commander
supreme court
supreme principle
supreme principle of pure reason
supreme sacrifice
supreme sauce
supreme soul
sur le tapis
sur-
sur-royal
surasal plate
surbased arch
surdo-mute
sure as can be
sure as death
sure as death and taxes
sure as fate
sure as hell
sure as shooting
sure as the devil
sure bet
sure card
sure crop
sure enough
sure loser
sure of yourself
sure sign
sure success
sure thing
sure winner
sure-aimed
sure-enough
sure-fire
sure-footed
sure-footedly
sure-footedness
sure-founded
sure-grounded
sure-nosed
sure-presaging
sure-refuged
sure-seeing
sure-set
sure-settled
sure-slow
sure-steeled
surest thing you know
surety bond
surf bum
surf caster
surf casting
surf clam
surf coot
surf duck
surf fish
surf line
surf plant
surf scoter
surf shiner
surf smelt
surf snipe
surf whiting
surf-battered
surf-beaten
surf-bound
surf-riding
surf-showered
surf-sunk
surf-swept
surf-tormented
surf-vexed
surf-washed
surf-wasted
surf-white
surf-worn
surface analyzer
surface anatomy
surface appearance
surface board
surface boundary layer
surface carburetor
surface card
surface color
surface condenser
surface cooler
surface density
surface energy
surface extension
surface fire
surface friction
surface friction drag
surface gauge
surface gravity
surface integral
surface layer
surface mail
surface measure
surface microscope
surface noise
surface of light and shade
surface of revolution
surface paper
surface plate
surface printing
surface quality
surface radar
surface railway
surface resistance
surface resistivity
surface rib
surface show
surface strain
surface structure
surface switch
surface tension
surface texture
surface wave
surface yeast
surface-active
surface-active agent
surface-bent
surface-bound electron
surface-coated
surface-damaged
surface-deposited
surface-dressed
surface-dry
surface-dwelling
surface-feeding
surface-hold
surface-printing
surface-scratched
surface-scratching
surface-to-air
surface-to-surface
surface-to-underwater
surfacing machine
surfeit water
surfeit-gorged
surfeit-slain
surfeit-swelled
surfeit-swollen
surfeit-taking
surge back
surge chamber
surge gap
surge of emotion
surge of sound
surge tank
surgeon apothecary
surgeon bird
surgeon commander
surgeon dentist
surgeon general
surgeon major
surgeon's knot
surgeon's saw
surgeons general
surgical anatomy
surgical boot
surgical dentistry
surgical diathermy
surgical hospital
surgical instrument
surgical intervention
surgical knife
surgical measure
surgical needle
surgical nurse
surgical operation
surgical shock
surgical spirit
surgical technique
surgical treatment
surmounted arch
surplice fee
surplus state
surplus value
surplus- age
surprise attack
surprise ending
surprise package
surprise party
surrealist tachism
surrealist tachist
surrender charge
surrender one's colors
surrender value
surrender your life
surround verge
sursum corda
surveillance radar
survey course
surveying sextant
surveyor general
surveyor's arrow
surveyor's chain
surveyor's compass
surveyor's dial
surveyor's level
surveyor's measure
survival of the fittest
survival rate
survival value
survive or perish
survivorship annuity
sus per coll
susceptible to
susceptive to
suspend judgment
suspend operations
suspended animation
suspended cadence
suspended sentence
suspender belt
suspense account
suspense drama
suspense ledger
suspense story
suspension bridge
suspension colloid
suspension insulator
suspension of civil rights
suspension of disbelief
suspension of hostilities
suspension periods
suspension point
suspension points
susensive veto
susensory ligament
susensive veto
suspicion-proof
sussex spaniel
sustain a part
sustain someone's side
sustained action
sustained activity
sustained note
sustaining pedal
sustaining program
sustentation fund
suture needle
suum cuique
suwarrow nut
svarabhakti vowel
swab stick
swaddling bands
swaddling clothes
swaddling-band
swaddling-clothes
swaddling-clouts
swag belly
swag-bellied
swage block
swage bolt
swage-set
swagger coat
swagger stick
swagger-
swago bass
swallow an insult
swallow anything
swallow dive
swallow fish
swallow flycatcher
swallow hawk
swallow hole
swallow hook
swallow it
swallow plover
swallow roller
swallow shrike
swallow stone
swallow the bitter pill
swallow the pill
swallow thorn
swallow up
swallow warbler
swallow whole
swallow your dust
swallow your pride
swallow your words
swallow-fork
swallow-hole
swallow-tail
swallow-tailed
swallow-tailed coat
swallow-tailed kite
swallow-wing
swami house
swamp andromeda
swamp angel
swamp apple
swamp ash
swamp azalea
swamp bay
swamp beggar-tick
swamp birch
swamp black gum
swamp blackberry
swamp blackbird
swamp blueberry
swamp boat
swamp brake
swamp broom
swamp buggy
swamp buttercup
swamp buttonwood
swamp cabbage
swamp cedar
swamp chess
swamp chestnut oak
swamp cottonwood
swamp crake
swamp cypress
swamp deer
swamp dewberry
swamp dock
swamp dogwood
swamp elm
swamp evergreen
swamp fern
swamp fever
swamp globeflower
swamp gooseberry
swamp grape
swamp gum
swamp hare
swamp harrier
swamp hawk
swamp hellebore
swamp hen
swamp hickory
swamp holly
swamp honeysuckle
swamp hook
swamp hornbeam
swamp itch
swamp laurel
swamp lily
swamp locust
swamp loosestrife
swamp lover
swamp magnolia
swamp mahogany
swamp mallow
swamp maple
swamp milkweed
swamp moss
swamp oak
swamp ore
swamp owl
swamp partridge
swamp pheasant
swamp pine
swamp pink
swamp poplar
swamp post oak
swamp potato
swamp privet
swamp quail
swamp rabbit
swamp red bay
swamp robin
swamp rose
swamp rose mallow
swamp sassafras
swamp saxifrage
swamp silkweed
swamp sparrow
swamp spleenwort
swamp spruce
swamp squawweed
swamp sumac
swamp sunflower
swamp tea
swamp thistle
swamp tickseed
swamp tupelo
swamp turnip
swamp warbler
swamp white cedar
swamp white oak
swamp willow
swamp willow herb
swamp wire grass
swamp-dwelling
swamp-growing
swamp-loving
swamp-oak
swamping resistance
swan animalcule
swan boat
swan dive
swan goose
swan knight
swan maiden
swan mussel
swan neck
swan neck pediment
swan orchid
swan pan
swan potato
swan shift
swan shot
swan song
swan's down
swan's neck
swan's neck pediment
swan's-down
swan-bosomed
swan-clad
swan-drawn
swan-eating
swan-fashion
swan-hopper
swan-hopping
swan-like
swan-mark
swan-neck
swan-pan
swan-plumed
swan-poor
swan-proud
swan-sweet
swan-tuned
swan-upper
swan-upping
swan-white
swan-winged
swanking stick
swanskin calico
swap hook
swap horses
swap places with
sward-cut
sward-cutter
swarm cell
swarm over
swarm spore
swarm up
swarm with
swart star
swartkranz ape-man
swash bulkhead
swash channel
swash letter
swash plate
swathing band
swathing clothes
sway bar
sway boat
sway brace
sway bracing
sway pole
sway-
sway-back
sway-backed
swear and affirm
swear at
swear by
swear by bell
swear falsely
swear in
swear like a sailor
swear like a trooper
swear off
swear on the Bible
swear out
swear the truth
swear to
swear to God
swear to a belief
swear to goodness
swear-word
swearer-in
swearing off
sweat and slave
sweat and stew
sweat bath
sweat bee
sweat blood
sweat gland
sweat it
sweat it out
sweat leather
sweat like a horse
sweat like a trooper
sweat lodge
sweat of your brow
sweat off
sweat out
sweat over
sweat pad
sweat pants
sweat room
sweat shirt
sweat shop
sweat socks
sweat stock
sweat suit
sweat-house
sweater girl
sweater shop
sweating iron
sweating sickness
sweating stock
sweating system
sweating-sickness
swede turnip
swedish massage
swedish movements
swedish turnip
swee-swee
swee-sweet
sweep along
sweep aside all obstacles
sweep away
sweep check
sweep generator
sweep hand
sweep head
sweep mill
sweep net
sweep of time
sweep off your feet
sweep out
sweep plate
sweep point
sweep rake
sweep seine
sweep seining
sweep smelter
sweep the strings
sweep ticket
sweep under the rug
sweep up
sweep you off your feet
sweep-chimney
sweep-oar
sweep-second
sweeping change
sweeping net
sweeping process
sweeping score
sweeping statement
sweet William
sweet almond
sweet almond oil
sweet alyssum
sweet and pungent
sweet and sour
sweet as a nut
sweet as a rose
sweet as honey
sweet as sugar
sweet basil
sweet bay
sweet birch oil
sweet calamus
sweet cassava
sweet cherry
sweet chestnut
sweet chocolate
sweet cicely
sweet cider
sweet clover
sweet coltsfoot
sweet corn
sweet crab apple
sweet false camomile
sweet father of soft rest
sweet fern
sweet flag
sweet gale
sweet grass
sweet gum
sweet marjoram
sweet marten
sweet mock orange
sweet nature
sweet nothings
sweet oil
sweet oleander
sweet on
sweet orange
sweet patootie
sweet pea
sweet pepper
sweet pepper bush
sweet pepperbush
sweet pitahaya
sweet potato
sweet reason
sweet reasonableness
sweet reed
sweet reed grass
sweet revenge
sweet savor
sweet scabious
sweet shop
sweet singer
sweet sixteen
sweet sleep
sweet smell
sweet sorghum
sweet spire
sweet spirit of nitre
sweet stand
sweet stuff
sweet sucker
sweet sultan
sweet talk
sweet talker
sweet temper
sweet tongue
sweet tooth
sweet upon
sweet vernal grass
sweet viburnum
sweet water
sweet william
sweet william catchfly
sweet wine
sweet woodruff
sweet words
sweet wormwood
sweet-almond
sweet-almond oil
sweet-and-sour
sweet-and-sour sauce
sweet-beamed
sweet-bitter
sweet-bleeding
sweet-blooded
sweet-breath
sweet-breathed
sweet-breathing
sweet-brier
sweet-bright
sweet-charming
sweet-chaste
sweet-complaining
sweet-conditioned
sweet-corn wilt
sweet-curd
sweet-dispositioned
sweet-eyed
sweet-faced
sweet-featured
sweet-field
sweet-flavored
sweet-flowered
sweet-flowering
sweet-flowing
sweet-gale
sweet-leafed
sweet-lipped
sweet-looking
sweet-minded
sweet-murmuring
sweet-natured
sweet-numbered
sweet-orange oil
sweet-pea streak
sweet-pickle
sweet-piercing
sweet-potato beetle
sweet-potato borer
sweet-potato scurf
sweet-potato sphinx
sweet-potato weevil
sweet-potato worm
sweet-recording
sweet-roasted
sweet-sacred
sweet-sad
sweet-savored
sweet-scented
sweet-seasoned
sweet-set
sweet-shaped
sweet-singing
sweet-smelled
sweet-smelling
sweet-smiling
sweet-sop
sweet-souled
sweet-sounded
sweet-sounding
sweet-sour
sweet-spoken
sweet-spun
sweet-suggesting
sweet-sweet
sweet-talk
sweet-talking
sweet-tasted
sweet-tasting
sweet-tempered
sweet-temperedly
sweet-temperedness
sweet-throat
sweet-throated
sweet-toned
sweet-tongued
sweet-toothed
sweet-touched
sweet-tulk
sweet-tuned
sweet-voiced
swift moth
swift rate
swift shrike
swift-advancing
swift-brought
swift-burning
swift-changing
swift-concerted
swift-declining
swift-effected
swift-fated
swift-finned
swift-flowing
swift-flying
swift-foot
swift-footed
swift-frightful
swift-glancing
swift-gliding
swift-handed
swift-heeled
swift-hoofed
swift-judging
swift-lamented
swift-marching
swift-paced
swift-posting
swift-recurring
swift-revenging
swift-running
swift-rushing
swift-seeing
swift-sliding
swift-slow
swift-spoken
swift-starting
swift-stealing
swift-streamed
swift-swimming
swift-tongued
swift-winged
swiftiering line
swill down
swill up
swill-bowl
swill-tub
swim against the current
swim bladder
swim bow
swim fin
swim fins
swim in
swim mask
swim suit
swim upstream
swim with the current
swim with the stream
swim with the tide
swim-bladder
swimmer's itch
swimming bath
swimming bell
swimming bladder
swimming costume
swimming crab
swimming eyes
swimming funnel
swimming hole
swimming of the head
swimming plate
swimming pool
swimming suit
swimming tank
swimming trunks
swimming upstream
swindle sheet
swine back
swine cress
swine dysentery
swine erysipelas
swine fever
swine flu
swine grass
swine itch
swine plague
swine pox
swine thistle
swine vesicular disease
swine's feather
swine-backed
swine-bread
swine-chopped
swine-cote
swine-eating
swine-faced
swine-headed
swine-mouthed
swine-pipe
swine-pox
swine-snouted
swine-stead
swine-stone
swine-sty
swing arm
swing at
swing back
swing band
swing bar
swing beam
swing boat
swing bolster
swing bolt
swing bridge
swing cart
swing chair
swing district
swing door
swing drawbridge
swing from one thing to another
swing gate
swing hammer crusher
swing in with
swing jack
swing joint
swing knife
swing leg
swing music
swing musician
swing on
swing open
swing plate
swing plow
swing round
swing round the circle
swing saw
swing shift
swing shifter
swing team
swing the deal
swing the stern
swing tool
swing toward
swing train
swing vote
swing wheel
swing-
swing-jointed
swing-swang
swing-tree
swing-wing
swinging bar
swinging basin
swinging boom
swinging both ways
swinging buoy
swinging compass
swinging door
swinging post
swinging ring
swinging toward
swinging voter
swingle staff
swingle tow
swingle-
swinging tow
swinish gluttony
swinin multitude
swipe at
swirl bob
swirl the senses
swish tail
swish-
swish-swash
swiss muslin
swiss roll
swiss steak
switch box
switch cane
switch cast
switch engine
switch grass
switch hitter
switch hook
switch knife
switch line
switch off
switch off the light
switch on
switch on the light
switch over
switch plant
switch plate
switch plug
switch rail
switch sorrel
switch stand
switch tail
switch tender
switch tenter
switch tower
switch yard
switch-hit
switch-hitter
switch-hitting
switch-horn
switch-over
switchblade knife
switchboard operator
switching circuit
switching eye
swivel block
swivel bridge
swivel chain
swivel chair
swivel eyes
swivel fabric
swivel gun
swivel hook
swivel jaw
swivel musket
swivel pin
swivel pipe
swivel plow
swivel shuttle
swivel silk
swivel spindle
swivel table
swivel union
swivel vise
swivel weaving
swivel-eyed
swivel-hooked
swivel-lock
swizzle stick
swollen belly
swollen diction
swollen head
swollen phrase
swollen with pride
swollen-cheeked
swollen-eyed
swollen-faced
swollen-glowing
swollen-headed
swollen-jawed
swollen-tongued
swooning-ripe
swoop down
swoop down on
swoop down upon
sword arm
sword bayonet
sword bean
sword belt
sword blade
sword breaker
sword cane
sword cut
sword cutler
sword cutlery
sword dance
sword dancer
sword dollar
sword fern
sword flag
sword flax
sword grass
sword guard
sword hand
sword hanger
sword hilt
sword in hand
sword kin
sword knot
sword law
sword lily
sword maker
sword mat
sword of Damocles
sword sedge
sword service
sword side
sword swallower
sword swallowing
sword tash
sword thrust
sword tip
sword-armed
symmetric difference
symmetric function
symmetric group
symmetric matrix
symmetric polynomial
symmetry axis of rotation
symmetry class
symmetry element
symmetry plane
sympathetic chord
sympathetic contact
sympathetic ink
sympathetic introspection
sympathetic nerve
sympathetic nervous system
sympathetic ophthalmia
sympathetic response
sympathetic strike
sympathetic string
sympathetic vibration
sympathize with
sympathy strike
symphonic conductor
symphonic form
symphonic music
symphonic ode
symphonic poem
symphonie concertante
symphony band
symphony concert
symphony orchestra
symphyo-
symphysio-
symptom complex
symptomatic anthrax
symptomatic treatment
syn-
synaposematic mimicry
sync-generator
synchro receiver
synchro transmitter
synchro unit
synchro-
synchro-cyclotron
synchronous linguistics
synchronized shifting
synchronizing generator
synchronizing pulse
synchronizing separator
synchronizing signal
synchronous converter
synchronous machine
synchronous motor
synchronous orbit
synchrotron radiation
syncopated music
syncro-mesh
syndesmo-
synectics group
syneusis texture
synodic month
synonym dictionary
syntactic analysis
syntactic construction
syntactic meaning
syntactic structure
syntax language
syntectic magma
synthesis gas
synthetic cloth
synthetic detergent
synthetic division
synthetic dye
synthetic fabric
synthetic geometry
synthetic lacquer
synthetic philosophy
synthetic plasma
synthetic resin
synthetic rubber
synthetic textile
syntonic personality
syphil-
syphilitic arthritis
syphilitic meningoencephalitis
syphilitic paresis
syphilo-
syringo-
syro-
syrphid fly
syrphus fly
syrup of ipecac
system component
system components
system engineer
system engineering
system function
system of belief
system of beliefs
system of government
system of ideas
system of knowledge
system of oral communication
system of theories
system of values
system of weight
system stabilization
systematic amnesia
systematic botany
systematic theology
systematically terrorize
systemic insecticide
systems analysis
systems analyst
systems design
systems engineering
systems planning
systole and diastole
systolic hypertension
t aint
t b
t distribution
t formation
t square
t will
t'ai chi chu'an
t'ao t'ieh
t-bar lift
t-bone
t-man
t-shirt
rRNA
ta ta
ta-ta
ta-zaung	tab key	tab of	taban puteh	tabby cat	tabby moth	tabby weave	tabby-cat heart	tabby-cat striation
tabernacle mirror
tabernacle work
tabes dorsales
tabes dorsalis
table base
table board
table book
table chair
table clothing
table cover
table cut
table d'hote
table decoration
table decorator
table dhote
table diamond
table engine
table glass
table knife
table lamp
table licence
table line
table linen
table money
table mountain
table napkin
table of contents
table of organization
table of prothesis
table of the Lord
table oil
table radio
table rapping
table round
table ruby
table salt
table saw
table service
table setting
table settle
table spar
table stake
table stone
table talk
table talker
table tennis
table the motion
table tilting
table tipping
table tomb
table tripod
table turning
table wine
table work
table-board
table-book
table-cloth
table-cut
table-cutter
table-cutting
table-faced
table-formed
table-hop
table-hopped
table-hopper
table-hopping
table-land
table-mountain pine
table-rapping
table-shaped
table-spoon
table-stone
table-tail
table-talk
table-topped
table-turning
tableau curtain
tableau vivant
tableaux vivants
tabled joint
tablet chair
tablet letter
tablet tea
tablet triturate
tablets of the memory	taboo language	taboo word	tabor pipe
tabs of
tabs on	tabucki grass	tabula rasa	tabular iceberg	tacca arrowroot	tacheo-
tachina fly
tacho-
tachy case
tachy-
tacit consent
tack bend
tack board
tack bumpkin
tack comb
tack down wind
tack duty
tack hammer
tack line
tack on
tack pin
tack rivet
tack room
tack together
tack up
tack weld
tack welder
tack welding
tacketing gut
tacking needle	
tackle block
tackle board
tackle fall
tackle house
tackle post
tackles back formation	
tacky party	

tacnodeRare	
tactical air force
tactical bombing
tactical evolutions
tactical maneuvers
tactical nuclear weapons
tactical plan
tactical police
tactical unit
tacticalsupport bomber
tactile amnesia
tactile cell
tactile corpuscle
tactile hair
tactile organ
tactile process
tactile sense	
tadpole fish
tadpole-shaped
tae-kwan-do
taedium vitae
taenii-
taenio-
taffeta weave
taffrail log
taffy pull
tag addresser
tag after
tag alder
tag along
tag and rag
tag boat
tag dance
tag day
tag end
tag line
tag on
tag up
tag, rag, and bobtail
tag-addressing
tag-affixing
tag-dating
tag-marking
tag-rag
tag-stringing
tagged atom
tagged element
tagmemic analysis
tagrag and bobtail
tai-ping
tail barley
tail bay
tail beam
tail block
tail boom
tail coat
tail cone
tail covert
tail end
tail fan
tail fin
tail fly
tail force
tail gate
tail grab
tail grape
tailed frog
tailed sonnet
tailed toad
tailings auger
taille-douce
tailless airplane
tailless jet
tailor warbler
tailor's chalk
tailor's-tack
tailor-bird
tailor-built
tailor-cut
tailor-legged
tailor-made
tailor-mades
tailor-make
tailor-making
tailor-suited
tailored suit
taint-free
taint-worm
taintor gate
tais toi
take French leave
take a Sunday drive
take a back seat
take a bow
take a break
take a call
take a careful look
take a chance
take a close look
take a course
take a crack at
take a crap
take a cursory view of
take a dare
take a decision
take a dim view of
take a dislike to
take a dive
take a drop
take a drop too much
take a fall
take a fancy to
take a favorable turn
take a flier
take a flight
take a fling at
take a flop
take a fresh lease on life
take a further look
take a gamble on
take a glance at
take a hand
take a hand in
take a header
take a heading
take a holiday
take a journey
take a joyride
take a leaf out of
take a leaf out of your book
take a leap in the dark
take a leave of absence
take a liberty
take a likeness
take a liking to
take a lively interest
take a long
take a look at
take a nap
take a new lease on life
take a part
take a peek
take a peep
take a percentage
take a photograph
take a picture
take a poke at
take a pop at
take a potshot
take a powder
take a pratfall
take a premium
take a prompt
take a random sample
take a rap
take a reading
take a recess
take a reef
take a resolution
take a rest
take a rubbing
take a runout powder
take a second look
take a set
take a shine to
take a shit
take a short cut
take a shot at
take a shy at
take a sight
take a spill
take a squint at
take a stand
take a straw vote
take a stretch
take a swing at
take a swipe at
take a trip
take a tumble
take a turn
take a turn for the better
take a voyage
take a walk
take a whack attake a whiff of
take a wrong turn
take a wrong turning
take aback
take account of
take action
take advantage of
take advice
take after
take aim
take aim at
take alarm
take all of
take amiss
take an active part in
take an approach to
take an assumed name
take an attitude
take an aversion to
take an interest
take an interest in
take an overdose
take and do
take another look
take apart
take arms
take as a matter of course
take as a model
take as a precondition
take as a reason
take as an excuse
take as an occasion
take as demonstrated
take as gospel truth
take as proved
take aside
take at face value
take at your word
take away
take away from
take away your breath
take back
take bearings
take before the judge
take birth
take by assault
take by storm
take by surprise
take by the beard
take by the button
take by the hand
take by the lapel
take by the throat
take captive
take care
take care of
take care of number one
take center stage
take chances
take charge
take charge of
take charge of your destiny
take cognizance of
take cold
take comfort
take command
take counsel
take counsel of your pillow
take counsel with
take courage
take cover
take cover under
take credit
take dead aim at
take delight in
take doing
take down
take down a peg
take down a peg or two
take down in shorthand
take effect
take exception
take exception to
take fire
take five
take flight
take for
take for a ride
take for a sucker
take for better or for worse
take for gospel
take for granted
take for your own
take for yourself
take form
take forty winks
take fright
take from
take good care
take great satisfaction
take heart
take heart of grace
take heed
take heed at your peril
take heed of
take hold
take hold of
take hold of one
take hold of you
take holy orders
take horse
take ill
take in
take in a reef
take in bad part
take in exchange
take in good part
take in hand
take in sail
take in the sights
take in tow
take in vain
take in your stride
take into account
take into camp
take into consideration
take into custody
take into employment
take into your head
take into your service
take issue
take issue with
take it
take it all
take it as given
take it easy
take it in your stride
take it into your head
take it like a man
take it lying down
take it on the chin
take it on the lam
take it or leave it
take it out of
take it out of your hide
take it out of your skin
take it out on
take it that
take its place
take its rise
take its rise from
take kindly to
take leave
take leave of
take leave of your senses
take legal proceedings against
take lessons
take liberties
take liberties with
take life
take life easy
take line
take lying down
take measures
take medicine
take merit to yourself
take narrow views
take no account of
take no denial
take no interest in
take no note of
take no notice of
take no part in
take no stock in
take no thought of
take no thought of the morrow
take no thought of tomorrow
take note
take note of
take notice
take notice of
take nourishment
take oath
take off
take off a high
take off after
take off for
take off on
take off weight
take off your hands
take off your hat to
take off your shoes
take offense
take office
take on
take on credit
take on faith
take on over
take on trust
take on weight
take on yourself
take one over
take one step at a time
take one's breath away
take one's life
take order
take orders
take origin
take out
take out after
take out from under wraps
take out insurance
take out membership
take out of mothballs
take out on
take over
take over for
take pains
take part in
take part with
take pen in hand
take pity on
take pity upon
take place
take pleasure in
take position
take possession
take possession of
take potluck
take precautions
take precedence
take pride in
take prisoner
take rank
take refuge
take refuge in
take residence at
take rest
take revenge
take rise
take root
take shame
take shape
take shelter
take ship
take short
take sick
take sides
take sides with
take silk
take snuff
take some doing
take something in your stride
take soundings
take steps
take steps and measures
take stock
take stock in
take stock of
take ten
take the Lord's name in vain
take the air
take the air line
take the attitude
take the average
take the back track
take the bait
take the ball on the rebound
take the bit in
take the bit in the teeth
take the bit in your teeth
take the bite out
take the blame
take the breath away
take the bull by the horns
take the cake
take the chair
take the chance
take the chances of
take the chill off
take the consequences
take the count
take the cross
take the cure
take the dimensions of
take the edge off
take the edge off of
take the fancy of
take the field
take the first step
take the floor
take the good the gods provide
take the ground
take the ground from under
take the heart out of
take the helm
take the initiative
take the last count
take the law in your own hands
take the law into your own hands
take the law of
take the law on
take the lead
take the liberty
take the lid off
take the life of
take the load off your mind
take the mantle of
take the marriage vows
take the mean
take the measure
take the measure of
take the mind off of
take the offensive
take the opportunity
take the part of
take the place of
take the pledge
take the plunge
take the rap
take the rap for
take the reciprocal course
take the reins into your hand
take the reins of government
take the responsibility
take the risk
take the road
take the shape of
take the shine out of
take the starch out of
take the sting out
take the sting out of
take the stump
take the the bull by the horns
take the throne
take the tuck out of
take the veil
take the vows
take the wind out of
take the wind out of your sails
take the words out of your mouth
take the wraps off
take things as they come
take thought of
take time
take time by the forelock
take time out
take to
take to account
take to arms
take to be
take to court
take to drink
take to drinking
take to flight
take to heart
take to mean
take to one's heels
take to pieces
take to task
take to the air
take to the airways
take to the bosom
take to the cleaners
take to the hustings
take to the road
take to the stump
take to wife
take to your arms
take to your heels
take to yourself a wife
take trouble
take turns
take umbrage
take unawares
take under active consideration
take under advisement
take under consideration
take under your wing
take up
take up a side
take up again
take up an inquiry
take up and pay off
take up arms
take up membership
take up residence
take up the cause of
take up the cudgels
take up the cudgels against
take up the cudgels for
take up the gauntlet
take up the hatchet
take up the sword
take up time
take up with
take up your abode
take up your option
take up your quarters
take up your thoughts
take up your time
take upon your shoulders
take upon yourself
take vows
take what comes
take wing
take with a grain of salt
take wrong
take you at your word
take you back
take you up on
take your bearings
take your breath away
take your business to
take your case to the public
take your chance
take your choice
take your constitutional
take your cue from
take your death
take your departure
take your dust
take your ease
take your fancy
take your foot off the gas
take your hat off to
take your head off
take your last breath
take your last sleep
take your leave
take your leisure
take your life away
take your life in your hand
take your life in your hands
take your lumps
take your measure
take your medicine
take your oath
take your oath upon
take your opinions ready-made
take your own course
take your own life
take your own sweet time
take your picture
take your place
take your pleasure
take your position
take your punishment
take your sabbatical
take your stand
take your stand against
take your stand upon
take your time
take your trade to
take your turn
take your way
take your word
take your word for
take yourself away
take yourself off
take-
take-all
take-charge
take-charge guy
take-down
take-home
take-home examination
take-home pay
take-in
take-off
take-off booster
take-off rocket
take-off speed
take-off strip
take-out
take-over
take-up
take-up box
taken aback
taken as granted
taken away
taken by surprise
taken for granted
taken ill
taken off
taken on
taken unawares
taken up
taken up with
taken with
takeoff power
takeoff ramp
takeoff rocket
takeoff run
takeout double
taker-down
taker-in
taker-off
taking a part
taking a role
taking all in all
taking all things together
taking apart
taking away
taking by storm
taking down
taking everything into account
taking exception
taking from under wraps
taking in
taking into account
taking into account that
taking into custody
taking it for all in all
taking leave
taking of life
taking off
taking office
taking on
taking one thing with another
taking or drawing out
taking over
taking place
taking possession
taking the wraps off
taking ways
taking-in
tal-laisim
talba gum
talc bag
talc blank
talc brick
talc crayon
talc cube
talc facing
talc pencil
talc pulverizer
talc schist
talc-grinding
talca gum
talco gum
talcum powder
tale-teller
tale-telling
taleh gum	alent money
talent scout
talent show	talented person	alha gum
talk about
talk against time
talk at
talk away
talk back
talk beans
talk between ships
talk big
talk dirty
talk double Dutch
talk down
talk down to
talk film
talk highfalutin
talk idly
talk in
talk in superlatives
talk incoherently
talk into
talk nineteen to the dozen
talk nonsense
talk of
talk of the town
talk off the top of your head
talk on
talk out
talk out of
talk out of turn
talk over
talk over the back fence
talk round
talk show
talk the hind leg off a mule
talk through your hat
talk to
talk to death
talk to hear your head rattle
talk to in private
talk to yourself
talk together
talk too much
talk turkey
talk up
talk with
talk with one
talk with you in private
talk you around
talk you deaf and dumb
talk you into a fever
talk you to death
talk your ear off
talk your head
talk your head off
talk yourself hoarse
talk yourself out of breath
talk-back
talkative person	talked about
talked-about
talked-of
talkee-talkee
talking book
talking chief
talking down
talking machine
talking out of
talking picture
talking point
talking through your nose
talking to hear yourself talk
talking-down system
talking-to
talking-tos	talky-talk	talky-talkee
tall as a maypole
tall coreopsis
tall drink	tall fescue
tall meadow oat
tall meadow rue
tall oat grass
tall oil
tall order
tall person
tall poppy
tall ship
tall story
tall sunflower
tall tale
tall talk
tall-bodied
tall-built
tall-case clock
tall-chimneyed
tall-columned
tall-corn
tall-elmed
tall-growing
tall-looking
tall-masted
tall-master
tall-necked
tall-pillared
tall-sceptered
tall-sitting
tall-spired
tall-stalked
tall-stemmed
tall-trunked
tall-tussocked
tall-wheeled
tallith katan
tallow bayberry
tallow candle
tallow catch
tallow chandler
tallow chandlery
tallow chandling
tallow cooler
tallow crackling
tallow cup
tallow cutter
tallow dip
tallow drop
tallow gourd
tallow loaf
tallow mange
tallow melter
tallow nut
tallow oil
tallow pot
tallow press
tallow refiner
tallow renderer
tallow sampler
tallow shrub
tallow tree
tallow wood
tallow-chandlering
tallow-colored
tallow-cut
tallow-face
tallow-faced
tallow-hued
tallow-lighted
tallow-pale
tallow-top
tallow-topped
tame-spirited
tame-witted
tammie norie
tammy cloth
tamp in
tamper with	tampered with
tamping bar
tamping iron
tamping pick
tamping stick
tan bay
tan oak
tan your hide
tan-burning
tan-colored
tan-faced
tan-mouthed
tan-sailed
tan-skinned
tan-strewn
tan-tan
tan-tinted
tan-trodden	tanbark beetle
tanbark oak
tanbark tree	tandem bicycle
tandem cart
tandem plane
tandem rotors	tandem seat	tandem-compound	tandem-punch	tandem-rotor helicopter
tang chisel	tang end
tangent distance	tangent galvanometer	tangent plane	tangent-cut	tangent-saw	tangent-sawed	tangent-sawing	tangent-sawn	tangential motion	tangerine-colored	tangible assets
tangle picker
tangle up with
tangle with
tangle-haired
tangle-headed
tangle-legs
tangle-tail
tangle-tailed	
tangled in
tangled skein
tank car
tank circuit
tank corps
tank corpsman
tank crewman
tank destroyer
tank dome
tank drama
tank driver
tank engine
tank farm
tank farming
tank fighter
tank furnace
tank iron
tank liquor
tank locomotive
tank meter
tank nipple
tank rivet
tank runner
tank ship
tank station
tank suit
tank table
tank top
tank town
tank trailer
tank truck
tank up
tank wagon
tank waste
tank-town
tankard bearer
tankard-bearing	
tanker ship
tannery fungus
tannic acid
tannin color
tanning extract
tanno-
tannyl acetate
tansy mustard
tansy oil
tansy ragwort
tant mieux
tant pis
tant soit peu
tantalic acid
tantalum lamp
tao-tieh
tap bell
tap bolt
tap bond
tap borer
tap chuck
tap cinder
tap cutter
tap dance
tap dancer
tap dancing
tap dressing
tap drill
tap extractor
tap funnel
tap gauge
tap grinder
tap holder
tap hose
tap line
tap out the rhythm
tap rate
tap reamer
tap rivet
tap screw
tap shoe
tap tool
tap water
tap wrench
tap-dance
tap-danced
tap-dancer
tap-dancing
tap-hole
tap-house
tap-lash
taper-fashion

taper-fashion arrow
taper-grown
taper-headed
taper-lighted
taper-limbed
taper-molded
taper-pointed
tapered-in
tapestry Brussels
tapestry beetle
tapestry carpet
tapestry glass
tapestry maker
tapestry making
tapestry moth
tapestry needle
tapestry painting
tapestry stitch
tapestry weaver
tapestry weaving
tapestry work
tapestry-covered
tapestry-worked
tapestry-woven

tapeworm plant
taping arrow
taping pin
tapioca plant
tapioca pudding
tapioca snow
tapioca-plant
tapir mouth
tapis vert	
tapped joint	
tapper tap
tapper-out
tappet motion
tappet rod
tappet wrench
tapping chuck
tapping clay
tapping drill
tapping hole
tapping key
tapping screw
tappit hen
tappit-hen
tar-scented
tar-sealed
tar-soaked
tar-spray
tar-water	
tara fern
tarage table	
tarantula hawk
tardive dyskinesia
tardy epilepsy
tardy-gaited
tardy-moving
tardy-rising	
tare an ages
tare anouns
tare anouny
tare grass
tare room
tare vetch
target arrow
target bass
target boat
target date
target day
target frame
target image
target lamp
target language
target man
target meeting
target missile
target planet
target practice
target range
target rifle
target rod
target shaft
target spot
target values
target-shy

target-tower
target-tug
tariff duty
tariff law
tariff maker
tariff making
tariff reform
tariff reformer
taupe-rose
tauro-
taurocholic acid
taut as a bowstring
taut-
tauto-
tavern car
tavern table
tavern token
tavern-gotten
tavern-hunting
tavern-tainted
taw line
tawdry lace
tawed leather
tawny owl
tawny port
tawny-brown
tawny-coated
tawny-colored
tawny-faced
tawny-gold
tawny-gray
tawny-green
tawny-haired
tawny-moor
tawny-olive
tawny-skinned
tawny-tanned
tawny-visaged
tawny-whiskered
tawny-yellow
tax anticipation note
tax assessor
tax avoidance
tax base
tax benefit
tax bond
tax book
tax cart
tax certificate
tax collecting
tax collector
tax collectors
tax credit
tax deduction
tax deed
tax dodger
tax dodging
tax evader
tax evasion
tax exemption
tax farmer
tax haven
tax layer
tax levy
tax lien
tax list
tax money
tax rate
tax receiver
tax return
tax roll
tax sale
tax shelter
tax stamp
tax stamp n
tax structure
tax taker
tax the memory
tax title
tax with
tax withholding
tax write-off
tax your energies
tax yourself
tax-
tax-born
tax-bought
tax-burdened
tax-cart
tax-deductible
tax-dodging
tax-exempt
tax-exempt bond
tax-exempt status
tax-free
tax-free bond
tax-gatherer
tax-laden
tax-levying
tax-ridden
tax-supported	axable goods	axable income
taxable land
taxable property
taxi dancer
taxi driver
taxi horn
taxi radar
taxi strip
taxi truck
taxi-bordered
taxi-cab
taximeter cab
tch tch
tcheck out
t deum
t e igitur
t e-hee
t e-heed
t e-heing
tea bag
tea ball
tea bell
tea biscuit
tea blender
tea blight
tea borer
tea bread
tea break
tea broom
tea caddy
tea cake
tea can
tea canister
tea cart
tea ceremony
tea checker
tea chest
tea clipper
tea cloth
tea cooper
tea cosy
tea cozy
tea dance
tea drinker
tea drunkard
tea egg
tea family
tea fight
tea fighting
tea garden
tea gardener
tea girl
tea gown
tea green
tea hound
tea hour
tea house
tea infuser
tea kettle broth
tea kitchen
tea lead
tea leaf
tea maid
tea maker
tea meeting
tea mite
tea mixer
tea mosquito
tea oil
tea oil tree
tea olive
tea packer
tea party
tea percolator
tea plant
tea planter
tea planting
tea plate
tea rose
tea sampler
tea scrub
tea service
tea set
tea shop
tea sifter
tea strainer
tea table
tea tasting
tea towel
tea tray
tea tree
tea trolley
tea urn
tea wagon
tea weigher
tea-blending
tea-chest
tea-clipper
tea-colored
tea-covered
tea-cup
tea-garden
tea-gardened
tea-growing
tea-inspired
tea-leaf
tea-leaved
tea-leaves
tea-loving
tea-maker
tea-mixing
tea-of-heaven
tea-packing
tea-party
tea-plant
tea-planter
tea-pot
tea-producing
tea-rose
tea-rose pink
tea-scented
tea-seed oil
tea-sodden
tea-spoon
tea-swilling
tea-table
tea-table talk
tea-tabular
tea-taster
tea-things
tea-tray
tea-tree
teach a lesson
teach an old dog new tricks
teach fishes to swim
teach in
teach the elements
teach the rudiments
teach-in
teach-ins
teacher bird
teacher clerk
teacher edition
teacher of rhetoric
teacher training
teacher's aide
teacher's pet
teachers college
teachers' college
teaching aid
teaching assistant
teaching elder
teaching fellow
teaching fellowship
teaching hospital
teaching institution
teaching intern
teaching machine
teaching staff
teagle post
tek-brown
tek-built
tek-complexioned
tek-lined
tek-producing
tea blue
tea duck
tea flock
team boat
team play
team spirit
team teaching
team up
team up with
team with
team-mate
tear along
tear apart
tear around
tear ass
tear away
tear bag
tear bomb
tear bottle
tear down
tear duct
tear from
tear gas
tear gland
tear grass
tear grenade
tear into
tear limb from limb
tear loose
tear off
tear off the mask
tear open
tear out
tear sheet
tear shell
tear streak
tear strip
tear tape
tear to pieces
tear to rags
tear to shreds
tear to tatters
tear up
tear up the earth
tear up the road
tear up the track
tear up your mortgage
tear your hair
tear your hair out
tear yourself away
tear-
tear-acknowledged
tear-affected
tear-angry
tear-arresting
tear-attested
tear-baptized
tear-bedabbled
tear-bedewed
tear-besprinkled
tear-blinded
tear-bottle
tear-bright
tear-commixed
tear-compelling
tear-composed
tear-creating
tear-damped
tear-derived
tear-dewed
tear-dimmed
tear-distained
tear-distilling
tear-dropped
tear-drowned
tear-eased
tear-embarrassed
tear-expressed
tear-falling
tear-filled
tear-forced
tear-fraught
tear-freshened
tear-gas
tear-gas bomb
tear-gas grenade
tear-gas gun
tear-gassed
tear-gassing
tear-glistening
tear-imaged
tear-jerker
tear-jerking
tear-kissed
tear-lamenting
tear-lined
tear-marked
tear-melted
tear-mirrored
tear-misty
tear-mocking
tear-moist
tear-mourned
tear-off
tear-out
tear-owned
tear-pale
tear-pardoning
tear-paying
tear-persuaded
tear-phrased
tear-pictured
tear-pitying
tear-plagued
tear-pouring
tear-practiced
tear-procured
tear-protested
tear-provoking
tear-purchased
tear-quick
tear-raining
tear-reconciled
tear-regretted
tear-resented
tear-revealed
 tear-reviving
 tear-salt
 tear-scouring
 tear-sealed
 tear-shaped
 tear-shedding
 tear-shot
 tear-stained
 tear-stubbed
 tear-swollen
 tear-thirsty
 tear-washed
 tear-wet
 tear-wiping
 tear-worn
 tear-wrung
 tearful eyes
 tearing down
 tearing out
 tearing passion
 tearing up root and branch
 tease out
 tease tenon
 tease up
 teazel clipper
 teazel cutter
 teazel family
 teazel frame
 teazel gourd
 teazel grower
 teazel merchant
 teazel packer
 teazel sorter
 teazel artist
 teazel curtain
 teat cup
 teaze tenon
 technical adviser
 technical brilliance
 technical college
 technical education
 technical expert
 technical flaw
 technical jargon
 technical knockout
 technical know-how
 technical knowledge
technical mastery
technical oil
technical school
technical sergeant
technical skill
technical term
technical training institute
technical writer
technical writing
technically superb
technico-
techno-
technological institute
technological revolution
technological school
technological unemployment
technological warfare
tecno-
tectorial membrane
teddy bear
teddy boy
teddy girl
teddy-bear
tedious work
tedium-proof
tee bar
tee beam
tee burial
tee iron
tee joint
tee off
tee plate
tee rail
tee shirt
tee slot
tee square
tee-bulb
tee-hee
tee-hole
tee-name
tee-shirt
teed off
teeing ground
tee oil
tee over
tee with
teeing imagination
teeing loins
teeming rain
teeming womb
teen age
ten-age
ten-aged
ten-ager
tenie-weenie
teenie-weenie
teen-weenie
teen-weeny
tee-
tele-
tele-action
tele-iconograph
telechron clock
telegraph agency
telegraph bar
telegraph block
telegraph blue
telegraph board
telegraph box
telegraph bracket
telegraph bug
telegraph buoy
telegraph cable
telegraph clerk
telegraph clock
telegraph coil
telegraph connector
telegraph editor
telegraph form
telegraph hook
telegraph inspector
telegraph instrument
telephone cord
telephone counter
telephone desk
telephone directory
telephone engineer
telephone engineering
telephone exchange
telephone extension
telephone faultsman
telephone fitter
telephone fuse
telephone generator
telephone holder
telephone instrument
telephone insulation
telephone insulator
telephone jack
telephone kiosk
telephone knob
telephone laborer
telephone line
telephone lineman
telephone magneto
telephone man
telephone market
telephone mechanic
telephone mechanics
telephone mouthpiece
telephone number
telephone office
telephone operator
telephone pad
telephone plug
telephone pole
telephone protector
telephone receiver
telephone relay
telephone selector
telephone set
telephone stand
telephone supervisor
telephone support
telephone switch
telephone switchboard
telephone table
telephone tax
telephone terminal
telephone tester
television transmitter parts
television tube
television-viewer
tell a good story
tell a lie
tell a story
tell a thing or two
tell all
tell apart
tell confidentially
tell for your ears only
tell fortunes
tell how
tell idle tales
tell in advance
tell in glowing terms
tell it like it is
tell it not in Gath
tell it to the judge
tell its own story
tell its own tale
tell more than you want to know
tell off
tell on
tell once and for all
tell one thing from another
tell secrets
tell tales
tell tales out of school
tell the future
tell the meaning of
tell the news
tell the truth
tell true
tell where to get off
tell you a secret
tell you to your face
tell your beads
tell your fortune
tell yourself
tell-tale
tell-truth
teller of tales
teller's check
teller-out
telling of beads
telltale compass
telltale sign
tellur-
telluric acid
tellurium glance
telo-
telome theory
telpher carrier
telpher line
telpher railway
telpher ropeway	temper color	temper pin	temper screw	temper tantrum	temper-spoiling	temper-trying	temper-wearing	tempera painting	temperance drink	temperance hotel	temperance movement	temperantia salver	temperantia tray	temperate zone	temperature coefficient	temperature control	temperature curve	temperature gradient	temperature relay	temperature sensation	temperature sense	temperature sensor	temperature signal	temperature spot	temperature wind rose	temperature-humidity index	tempered glass	tempered safety glass	tempered semitone	tempest in a teacup	tempest in a teapot	tempest-bearing	tempest-beaten	tempest-blown	tempest-born	tempest-clear	tempest-driven	tempest-flung	tempest-gripped
tempest-harrowed
tempest-loving
tempest-proof
tempest-rent
tempest-rocked
tempest-scattered
tempest-scoffing
tempest-shattered
tempest-sundered
tempest-swept
tempest-threatened
tempest-torn
tempest-tossed
tempest-tost
tempest-troubled
tempest-walking
tempest-winged
tempest-worn
tempestuous rage
tempestuous wind
template excavator
template jig
temple axis
temple flower
temple mound
temple name
temple of the Holy Ghost
temple prostitute
temple title
temple tree
temple-bar
temple-crowned
temple-guarded
temple-haunting
temple-robbing
temple-sacred
temple-treated
tempo mark
tempo primo
tempo rubato
tempo turn
temporal bone
temporal hour
temporal lobe
temporal summation
temporary arrangement
temporary duty
temporary employee
ten-horsepower
ten-hour
ten-inch
ten-jointed
ten-keyed
ten-knotter
ten-league
ten-mile
ten-minute
ten-month
ten-oared
ten-parted
ten-peaked
ten-percenter
ten-pins
ten-ply
ten-point
ten-pound
ten-pounder
ten-rayed
ten-ribbed
ten-roomed
ten-second
ten-share unit stock
ten-shilling
ten-spined
ten-spot
ten-strike
ten-striker
ten-stringed
ten-syllable
ten-syllabled
ten-talented
ten-thousandaire
ten-to-one shot
ten-ton
ten-tongued
ten-toothed
ten-twenty-thirty
ten-weeks stock
ten-wheeled
ten-wheeled locomotive
ten-year
tenacious of life
tenaille line
tenant at sufferance
tenant at will
tenant farmer
tenant for life
tenant for years
tenant from year to year
tenant in capite
tenant in chief
tenant right
tenant righter
tenant-in-chief
tenant-right
tend animals
tend on
tend to
tend to a point
tend to go
tend to show
tend toward
tend towards
tendency chord
tendency play
tendency theory
tendency tone
tendency writing
tender age
tender annual
tender conscience
tender feeling
tender heart
tender loving care
tender mercies
tender passion
tender perennial
tender rocket
tender spot
tender susceptibilities
tender thanks
tender your compliments
tender your congratulations
tender your felicitations
tender your resignation
tender-bearded
tender-bladed
tender-bodied
tender-boweled
tender-colored
tender-conscienced
tender-dying
tender-eared
tender-eyed
tennis-ball
tennis-court
tennis-play
ten-
tenon auger
tenon saw
tenon tooth
tenonto-
tenor behind
tenor clef
tenor covering
tenor drum
tenor horn
tenor octave
tenor tuba
tenor viol
tenor violin
tenpenny nail
tenpin bowling
tense auxiliary
tense logic
tense phrase
tense readiness
tense-drawn
tense-eyed
tense-fibered
tsensitive strength
tension carriage
tension element
tension fatigue
tension line
tension pulley
tension rod
tension roller
tension zone
tent bed
tent caterpillar
tent dress
tent fly
tent meeting
tent pegger
tent pegging
tent pin
tent pole
tent show
tent stake
tent stitch
tent stripe
terra foliata
terra incognita
terra japonica
terra miraculosa
terra muriatica
terra orellana
terra pinguis
terra ponderosa
terra porcellanea
terra pozzuoli
terra putura
terra rosa
terra rossa
terra salitrosa
terra sienna
terra sigillata
terra umbra
terra verde
terra-cotta
terra-cotta lumber
terrace maker
terrace-banked
terrace-fashion
terrace-mantling
terrace-steepled
terraced house
terrae filii
terrae filius
terrain clearance indicator
terrain cure
terrain map
terramara culture
terrapin paws
terrapin scale
terrasse green
terre verte
terre-a-terreishly
terre-tenant
terre-verte
terrestrial globe
terrestrial guidance
terrestrial kingdom
terrestrial planet
terrestrial telescope
terrible thing
territorial court
territorial defense army
territorial division
territorial militia
territorial reserves
territorial system
territorial waters
territory wool
terror tactics
terror-bearing
terror-breathing
terror-breeding
terror-bringing
terror-crazed
terror-driven
terror-fleet
terror-fraught
terror-giving
terror-haunted
terror-inspiring
terror-lessening
terror-mingled
terror-preaching
terror-ridden
terror-riven
terror-shaken
terror-smitten
terror-stirring
terror-stricken
terror-striking
terror-struck
terror-threatened
terror-troubled
terror-wakened
terror-warned
terror-weakened
terroristic tactics
terry cloth
tersy-versy
tertia tone
tertiary college
tertiary color
tertiary stress
tertiary syphilis	
tertium quid
teru-tero
terza rima	
tesla coil
tessara-
test act
test animal
texas independence day
texas leaguer
texas ranger
texas tower
text blindness
text edition
text hand
text letter
text pen
text title
text writer
text-book
text-hand
text-letter
text-writer
textbook editor
textile designer
textile engineer
textile engineering
textile fabric
textile soap
textual critic
textual criticism
textus receptus
th-
thalamo-
thalamo-olivary
thalass-
thale-cress
thall-
thallium oxysulfide
thallium sulfate
thalloid shoot
thallous sulfate
thalofide cell
thanato-
thank God
thank offering
thank you
thank you kindly
thank your stars
thank-offering
thank-you
thank-you-ma'am
thank-you-ma'am
thanks be to God
thanks to
thanksgiving day
that bald sexton Time
that be
that being so
that being the case
that buttons it up
that dreamless sleep
that fell sergeant
that flattering unction
that goes without saying
that good night
that grim ferryman
that inward eye
that is
that is evident
that is so
that is to be
that is to say
that leaps to the eye
that old bald cheater
that old common arbitrator
that one
that or nothing
that or the other
that orbed continent
that orbed maiden
that time
that unwritten law
that wants discourse of reason
that way
that will be
that's final
that's for sure
that's it
that's just it
that's just the thing
that's right
that's that
that's the end of the matter
that's the idea
that's the thing
that's the ticket
that's the very thing
that's the way the ball bounces
that's your lookout
that's your pigeon
that's your tough luck
that-a-way
that-away
the Bab
the Balance
the Balkans
the Baptist
the Big Board
the Bird of Paradise
the Blessed One
the Blessed Virgin
the Bluegrass
the Book
the Book of Books
the Bowery
the Bread of Life
the Bride of the Lamb
the Bull
the Canaanite
the Cape
the Carolinas
the Cascades
the Catacombs
the Caucasus
the Centaur
the Chained Lady
the Chameleon
the Charioteer
the Christ
the Christ Child
the Church
the City
the Clock
the Coalsack
the Coast
the Colonies
the Colophonian
the Comforter
the Common Enemy
the Commonwealth
the Commonwealth of Nations
the Commune
the Compasses
the Confederacy
the Confederation
the Confessor
the Conquest
the Consoler
the Continent
the Crab
the Crane
the Creation
the Creator
the Cross
the Crow
the Crown
the Cup
the Cyprian
the DT's
the Dakotas
the Dales
the Decalogue
the Deity
the Deluge
the Demon
the Demon Rum
the Depression
the Destinies
the Destroyer
the Deuce
the Devil
the Devil Incarnate
the Devil's pitchfork
the Dickens
the Digest
the Dirae
the Directory
the Divine
the Divine Liturgy
the Divinity
the Dog Star
the Dolphin
the Dominion
the Door
the Dorado Fish
the Dove
the Doxology
the Dragon
the Eagle
the East
the Eddas
the Eight
the Elevation
the Enemy
the Enlightenment
the Erinyes
the Essence of the Universe
the Establishment
the Eternal
the Eternal Being
the Eucharist
the Eumenides
the Everlasting
the Everlasting Father
the Evil One
the Evil Spirit
the Exchange
the Exile
the Exodus
the Fall
the Father
the Father of Evil
the Father of Lies
the Fathers
the Fens
the Fiend
the First Cause
the Fishes
the Fleet
the Flood
the Fly
the Flying Fish
the Foal
the Forerunner
the Forum
the Foul Fiend
the Four Freedoms
the Four Hundred
the Fund
the Furies
the Furnace
the Galilean
the Garter
the Giant Hunter
the Giraffe
the Gironde
the Goat
the Good Book
the Good Shepherd
the Gospel
the Gracchi
the Graces
the Grange
the Great Bear
the Great Depression
the Great Divide
the Great Dog
the Great Spirit
the Guardian of Mankind
the Hare
the Hebrides
the Herdsman
the Hill
the Holocaust
the Holy Father
the Holy Ghost
the Holy Sacrament
the Holy See
the Holy Spirit
the Honorable
the Horn
the Horned Goat
the Hours
the Hub
the Hunting Dogs
the Hypostatic Union
the I
the Incarnation
the Indian
the Indies
the Infant Jesus
the Infinite
the Infinite Being
the Infinite Spirit
the Inquisition
the Intercessor
the Jewish Law
the Judge
the Judgment
the Keel
the King of Light
the King's English
the King's evil
the Kirk
the Kremlin
the Lady in the Chair
the Lady of the Lake
the Lamb
the Larger Dog
the Last Day
the Law
the Left
the Legion
the Lesser Bear
the Lesser Dog
the Lesser Lion
the Life
the Light of the World
the Lion
the Litany
the Little Dog
the Little Fox
the Liturgy
the Lizard
the Loop
the Lord Buddha
the Lord of Wisdom
the Lord's Prayer
the Lowlands
the Lynx
the Lyre
the Mafia
the Maker
the Man
the Man of Sorrows
the Mast
the Master
the McCoy
the Mediator
the Method
the Microscope
the Monarch
the Mosaic Law
the Most Excellent
the Most Honorable
the Most Noble
the Most Reverend
the Most Worshipful
the Most Worthy
the Mountain
the Muses
the Nativity
the Nazarene
the Net
the Nine
the Noble
the North Star
the Northern Crown
the Northwest
the Now Generation
the Octant
the Old Adam
the Old Enemy
the Old Gentleman
the Old Man
the Old Serpent
the Olympics
the Omnipotent
the Omniscient
the Only-Begotten
the Orient
the Painter
the Pale Horse
the Paphian
the Peacock
the Peninsula
the Pentagon
the Phoenix
the Plain
the Pole Star
the Porch
the Potteries
the Preparation
the Preserver
the Prince of Darkness
the Prince of the Devils
the Prince of this world
the Promised Land
the Prophet
the Prophets
the Psalmist
the Psalms
the Psalter
the Psaltery
the Queen's English
the Ram
the Rand
the Reaper
the Red Planet
the Reef
the Regenerator
the Reproaches
the Restoration
the Rev Dr Dryasdust
the Reverend
the Right Honorable
the Right Reverend
the Risen
the River Po
the Roman Emperor
the Rule
the Rump
the Sacrament
the Sails
the Salon
the Scales
the Scandinavian Peninsula
the Scorpion
the Scriptures
the Sculptor
the Sculptor's Tool
the Sea Serpent
the Self-determined
the Serpent
the Serpent Bearer
the Seventy
the Sextant
the Shepherd
the Shield
the Ship Argo
the Shires
the Slump
the Snowies
the Snowy
the Son
the Sorrowful Mother
the South Seas
the Southern Crown
the Southern Fish
the Southern Triangle
the Spirit
the Spirit of God
the Spirit of Truth
the Stagirite
the Star-Spangled Banner
the States
the Stern
the Street
the Sudeten
the Sun of Righteousness
the Supreme Being
the Supreme Soul
the Swan
the Taal
the Table
the Teacher
the Telescope
the Tempter
the Thousand and One Nights
the Toucan
the Triangle
the True Vine
the Truth
the Twelve
the Twins
the Ukraine
the Unicorn
the Union
the Universal Ego
the Universal Self
the Unmoved Mover
the VIP's
the Vatican
the Vedas
the Very Reverend
the Vine
the Virgin
the Virgin Mary
the Virgin Mother
the Wandering Jew
the Water Bearer
the Water Carrier
the Water Snake
the Way
the Whale
the Wicked One
the Wigwam
the Winged Horse
the Wise Lord
the Wise One
the Wolf
the Wooden Horse
the Word
the Word Made Flesh
the Word of God
the Wreath
the Writings
the Yukon
the abroad
the absolute truth
the abstract
the absurd
the abyss
the administration
the affirmative
the affluent life
the air
the almighty dollar
the alphabet
the altogether
the always wind-obeying deep
the amount
the ancient and honourable
the angel of the bottomless pit
the anouilh
the ape of wisdom
the arch of heaven
the archenemy
the arms of Morpheus
the art of conversation
the art of hoping
the art of the possible
the article
the arts
the assured
the atmosphere of Soul
the attainable
the author of authors
the authorities
the avarice of power
the ax
the back of beyond
the backs
the bad
the battle of life
the be-all and the end-all
the beast
the beast with many heads
the beasts of the field
the beaten path
the beaten track
the beautiful
the beezie-weezies
the believing
the bends
the best
the best ever
the best people
the best words in the best order
the best you can
the best you know how
the beyond
the big battalions
the big idea
the big lie
the big picture
close
the big smoke
close
the big stick
close
the big time
close
the big top
close
the bird
close
the biter bit
close
the black art
close
the blahs
close
the blaze of noon
close
the blessed
close
the blind
close
the blind leading the blind
close
the block
close
the blood of life
close
the bludgeon
close
the blue
close
the blue planet
close
the blue serene
close
the blues
close
the boards
close
the book
close
the boondocks
close
the boot
close
the boot in the face
close
the border
close
the bosom of our rest
close
the bottle
close
the bottom line
close
the bottomless pit
close
the bounce
close
the bounding main
close
the boyhood of the year
close
the brandy of the damned
close
the brass
close
the brave
close
the breaks
close
the brine
close
the briny
close
the briny deep
close
the brush
close
the bubble reputation
close
the buff
close
the bum’s rush
close
the bunch
close
the burning tapers of the sky
close
the bush
close
the business of barbarians
the business world
the campus
the case
the cat's meow
the cat's pajamas
the chair
the chances are
the chase
the children of God
the children of light
the choir invisible
the chosen
the chuck
the church
the church universal
the cinema
the circumcision
the citizenry
the clash of creeds
the classes
the classics
the clear hyaline
the clinches
the clocksetter
the cloth
the cloven hoof
the club
the coast is clear
the cold shoulder
the comic
the common
the common herd
the commonplace
the community
the compleat
the compleat angler
the complete
the concrete
the condition being such
the confessional
the confessionary
the conn
the conscious
the contrary
the conventions
the cool of the evening
the cops
the corpus
the corridors of power
couch
count
country
courage of your convictions
course of events
courts
cradle
creed
creeps
cricket no relief
crippled
crowd
crown
crown of life
cud
cunning of the serpent
cup
cup that cheers
curse
curse of Eve
daily round
damned
dance
danger is past
dangerous age
dansant
dark
dark sanctuary of incapacity
data
dawn of day
dawn's early light
day after tomorrow
days of our years
days that are no more
dead
dead Summer's soul
deaf
deal is off
deceased
deep
deep blue sea
deep sea
deeps
defensive
defunct
departed
depths
the desk
the details
the deuce you say
the devil and all
the devil and the deep blue sea
the devil to pay
the devil you say
the devourer of things
the die is cast
the dim past
the direct opposite
the disadvantaged
the dismal science
the dismal
the dispossessed
the distance
the distressed
the dizzy rounds
the doldrums
the dolefuls
the domain of the impossible
the domain of the possible
the dome of Thought
the dominion of absurdity
the dope
the down-and-out
the downward path
the downward slope
the dragon
the dream of those that wake
the dress of thoughts
the drill
the duration
the earth
the elect
the elements
the empyrean
the enclosed
the end of the line
the end of the rainbow
the ends of the earth
the enemy of creativeness
the ensemble
the entirety
the eternal feminine
the eternal fitness of things
the evil
the evil one
the evil shadow of aspiration
the exact truth
the executive
the expiring day
the exterior
the eye
the fact of the matter
the facts
the facts of the case
the facts of the matter
the fair thing
the faith
the faithful
the family way
the fancy
the far side of
the fat is in the fire
the fat of the land
the feasible
the feast of vultures
the felon winds
the female of the human species
the few
the field
the fights
the first of painters
the first philosophy
the first theology
the flesh
the fleshly
the flip side
the flowing bowl
the following
the footlights
the fore
the forgotten man
the fount whence honour springs
the four corners of the earth
the four elements
the fourth estate
the fowl of the air
the front
the full count
the funny side
the fur fly
the future
the fuzz
the gallows
the gantlet
the gapes
the gas chamber
the gate
the gate of life
the gen
the general drift
the general public
the general tendency
the genuine article
the glad
the glad hand
the glad season of life
the glassy sea
the glorious lamp of Heav'n
the go-ahead
the go-by
the goat god
the god of my idolatry
the gods
the golden touch
the golden years
the good
the good folk
the good hereafter
the good life
the good people
the good side of
the goods
the governess of floods
the government
the grades
the grand style
the grape
the grave
the gray-hooded Ev'n
the great
the great beyond
the great hereafter
the great majority
the great out-of-doors
the great unknown
the great unnumbered
the great unwashed
the great white throne
the great world of light
the greater gods
the greater number
the greatest
the greatest innovator
the greatest number
the green light
the grill
the ground of being
the groves of Academe
the guillotine
the halls of learning
the halt
the handicapped
the handsome thing
the happy land
the hard truth
the hard way
the hard-of-hearing
the harmonious voice of creation
the have-nots
the haves
the hawk
the hay
the health of the soul
the hearing of deaf actions
the heebie-jeebies
the height of your ambition
the helm
the help
the herd
the hereafter
the hills
the hoi polloi
the hole
the holy
the holy of holies
the honest truth
the honest-to-God truth
the honey-heavy dew of slumber
the horde
the horrors
the hot seat
the how
the humanities
the hump
the hunted
the hurdles
the idea
the illimitable
the image of life
the lay of the land
the lead
the legitimate
the lesser gods
the letter
the life of Riley
the light fantastic
the lightning's gleaming rod
the like
the like of
the likes of
the limit
the limit of your patience
the line
the little O
the little men
the little people
the livelong day
the living
the living and breathing
the logic of the heart
the long and short of
the long and the short of
the long green
the lord's Supper
the lost
the lot
the loved one
the low'ring element
the lowdown
the lower cut
the loyal opposition
the luscious liquor
the mailed fist
the main course
the major deities
the majority
the majors
the man in the White House
the man in the street
the many
the market
the marketplace
the mass of the people
the masses
the matter is ended
the measure of all things
the measure of the year
the melting pot
to the microscope of the judgment
to the middle of nowhere
to the middle years
to the mighty
to the military
to the millennium
to the million
to the mind's immodesty
to the ministry
to the minor deities
to the minority
to the minors
to the mirror image
to the mirror of all courtesy
to the mirror of the soul
to the mob
to the moon
to the moon personified
to the more it changes
to the more it's the same thing
to the mores
to the morn
to the morrow
to the mosaic of the Air
to the most
to the mother of devotion
to the mother of prejudice
to the movies
to the multitude
to the mundane
to the music of the soul
to the music of the spheres
to the mystic wine of Night
to the mystical jewels of God
to the naked ape
to the naked truth
to the native hue of resolution
to the nature of the beast
to the nature of things
to the necessary
to the neck up
to the needful
to the needle
to the needy
to the negative
to the new look
to the new music
the nitty-gritty
the nod
the nonce
the noose
the normal
the normal order of things
the not ourselves
the now
the nth degree
the nude
the numbers
the numbers game
the numinous
the nursery
the nuts
the observed of all observers
the occult
the odds are
the offending Adam
the old Adam
the old college spirit
the old college try
the old country
the old heave-ho
the old man
the old man of the sea
the old one-two
the old woman
the olden time
the only animal that blushes
the only son of Mary
the only universal tongue
the open
the open air
the open road
the opening eyelids of the morn
the opposite extreme
the opposition
the ordinary
the orthodox
the other
the other America
the other day
the other extreme
the other half
the other side
the other side of
the other side of the coin
the other side of the picture
the other side of the tracks
the other way around
the out-of-doors
the painter of the soul
the palace of the Soul
the pale child
the pale populace of Heaven
the palpable obscure
the particular
the particulars
the past
the past again
the people
the people in the front office
the people upstairs
the perfection of nature
the petrifaction of feelings
the physic of the field
the pick
the picture
the pictures
the pill
the pip
the pit
the pits
the plain style
the plain truth
the planet
the plate
the plaything of fortune
the pledge
the plumeless genus of bipeds
the plural
the point
the polar opposite
the poor
the poor man's Parnassus
the populace
the population
the possible
the power elite
the power structure
the powerless
the powers that be
the present
the present age
the present day
the present hour
the present juncture
the present moment
the present occasion
the present time
the press
the prime work of God
the principality
the printing press of all ages
the profane
the profession
the proof of the pudding
the proper thing
the proper thing to do
the proprieties
the prosecution
the proud
the provinces
the prudent
the public
the pulpit
the purple
the quick
the quiet-voiced elders
the rabble
the rack
the rackets
the radiant sun
the rage
the rat race
the raw
the ready
the real McCoy
the real Simon Pure
the real thing
the realized ideal
the realm of possibility
the realm of the impossible
the record
the red sweet wine of youth
the reign of Spirit
the religious
the remembrance of things past
the reprobate
the rest is silence
the reverend mother
the reverse image
the rhythmic
the rich
the right Reverend
the right of the strong
the right side of
the right thing
the right thing to do
the right things
the right to live as we wish
the righteous
the ring
the road
the road to ruin
the rope
the rough
the round
the rounds
the ruddy cup
the rule and pattern of speech
the rulers
the ruling spirit of all things
the run of
the runaround
the runs
the sack
the sacred
the salt of the earth
the same
the same damn thing
the same difference
the same old thing
the same way
the saved
the say
the say-so
the scenes
the scoop
the score
the screaming meemies
the screen
the sea-mouth of mortality
the season
the season's look
the second soul of the unhappy
the secular
the seed of Chaos
the seemly
the seen
the self
the sensible
the sere
the serpent
the seven seas
the shades
the shadow of a shade
the shady side
the shakes
the shape of things
the shining ones
the ship
the shoe is on the other foot
the sick
the sightless
the silver livery of advised age
the silver screen
the simple truth
the sincerest form of flattery
the sinews of affairs
the sinews of war
the size of it
the skids
the sleep of the dead
the sleeping partner of life
the slip
the slums
the small hours
the sniffles
the snuffles
the sober truth
the social evil
the soft down of manhood
the soft underbelly of Europe
the soil
the son of Mary
the soul of the world
the soul of wit
the special
the specific
the specifics
the speech of angels
the spit and image of
the spoken word
the sport of fortune
the sport of kings
the squirrel cage
the stage
the stake
the state of affairs
the status quo
the stern truth
the sticks
the still
the stork
the storm blown over
the storm has blown over
the story
the straight and narrow
the straight of it
the straight truth
the strange
the string
the strong
the strong arm
the stuff
the subject is closed
the sublime
the sublime style
the suit of night
the summer of your youth
the summit
the supernatural
the supersensible
the supreme fiction
the suspicion of a suspicion
the sweat of your brow
the sweet by-and-by
the sweeter banquet of the mind
the sword
the syndicate
the tag-rag people
the temporal
the theater
the thing
the third dimension
the third estate
the thirtieth of February
the throne
the thunder
the time
the time being
the time of the singing of birds
the times
the tongue of vanity
the tooth of time
the usual
the vanquished
the various turns of chance
the vasty deep
the veil
the veriest
the very May-morn of his youth
the very Reverend
the very acme and pitch
the very best
the very model
the very pineapple of politeness
the very pink of courtesy
the very thing
the very witching time of night
the very words
the visible
the void
the void above
the vote
the vulgar herd
the wakey nights
the wandering Moon
the warder of the brain
the wat'ry star
the wavy waste
the way it is
the way it looks
the way it shapes up
the way of
the way of it
the way of the world
the way of things
the way the ball bounces
the way the cards fall
the way the cookie crumbles
the way the wind blows
the way things are
the way things fall
the way things go
the way you are
the way you feel
the way you think
the ways of the world
the wealthy
the weary round
the weather
the weed
the well to do
the whatfor
the wheel
the wheels of justice
the wherefore
the wherewith
the wherewithal
the while
the white radiance of eternity
the whitening shower
the whites
the whole
the whole bit
the whole night
the whole range
the whole spectrum
the whole story
the whole truth
the whole way to
the why
the why and wherefore
the whyfor
the wicked
the wild
the wind personified
the winds
the wine of life
the wine-dark sea
the wings of the wind
the wink
the wink of an eye
the wire
the wise
the womb of time
the wooded mountains
the word 'go'
the works
the world
the world above
the world of commerce
the world of trade
the world of waters wild
the world over
the worldly
the worse for
the worse for liquor
the worse for wear
the worst
the worst of all evils
the worst way
the wretched of the earth
the written word
the wrong side of forty
the wrong way
the years that are past
the yellow leaf
the-
theater lighting
theater man
theater of cruelty
theater of operations
theater of the absurd
theater of war
theater part
theater world
theater, the
theater-craft
theater-in-the-round
theatre of cruelty
theatre of the absurd
theatre stall
theatre-in-the-round
theatrical agent
theatrical makeup
theatrical performance
theatrical season
theatro-
theo-
theezan tea
theft insurance
theft-boot
thegn-born
thegn-right
thematic apperception test
thematic development
thematic map
theme and variations
theme park
theme song
then and there
then as previously
then-a-days
then-clause
thence-from
theo-
theobroma oil
theological hermeneutics
theological school
theological seminary
theological student
theological virtue
theological virtues
theologico-
theologo-
theology of crisis
theophylline ethylenediamine
theorem of the mean
theoretic atom
theoretic atoms
theoretical arithmetic
theoretical basis
theoretical chemistry
theoretical construct
theoretical economics
theoretical justification
theoretical linguistics
theoretical mechanics
theoretical physics
theoretical specific impulse
theoretical structure
theory of beauty
theory of being
theory of equations
theory of evolution
theory of games
theory of history
theory of knowledge
theory of probability
theory of relativity
theory-blind
theory-blinded
theory-building
theory-making
theory-spinning
therapeutic abortion
therapeutic index
there and then
there is no help for it
there is no helping it
there is no question
there is not a shadow of doubt
there is nothing more to be said
there is reason to believe
there's no place like home
there's no two ways about it
therefore because of this
therefore on account of this
therio-
therm-
thermal ammeter
thermal barrier
thermal conductivity
thermal cracking
thermal detector
thermal detectors
thermal diffusion
thermal efficiency
thermal engine
thermal equator
thermal equilibrium
thermal neutron
thermal radiation
thermal reactor
thermal shock
thermal spring
thermal timing relay
thermal unit
thermic fever
thermionic cathode
thermionic current
thermionic emission
thermionic grid emission
thermionic instrument
thermionic tube
thermionic tube circuit
thermionic valve
thermite process
thermo development
thermo-
thermo-inhibitory
thermo-unstable
thermocouple instrument
thermocouple meter
thermocouple pyrometer
thermodynamic equilibrium
thermodynamic potential
thermodynamic temperature
thermodynamics pot
thermoelectric couple
thermoelectric current
thermoelectric effect
thermoelectric thermometer
thermoelectromotive force
thermometer pointer
thermometric titration
thermonuclear arsenal
thermonuclear attack
thermonuclear bomb
thermonuclear explosion
thermonuclear fusion
thermonuclear power
thermonuclear reaction
thermonuclear warhead
thermonuclear weapons
thermos bottle
thermos flask
thermosetting plastic
thero-
thesaurus dictionary
these days
thesis dramatist
thesis novel
thesis novelist
thesis play
thesis playwright
theta function
thi-
thiacetic acid
thiazine dye
thick and thin
thick as flies
thick as hail
thick as thieves
thick darkness
thick hide
thick of hearing
thick of things
thick register
thick shade
thick shake
thick shell
thick skin
thick soup
thick space
thick squall
thick with
thick-ankled
thick-barked
thick-barred
thick-beating
thick-bedded
thick-billed
thick-blooded
thick-blown
thick-bodied
thick-bossed
thick-bottomed
thick-brained
thick-breathed
thick-cheeked
thick-clouded
thick-coated
thick-coming
thick-coming fancies
thick-cut
thick-decked
thick-descending
thick-drawn
thick-eared
thick-fingered
thick-flaming
thick-flanked
thick-flashing
thick-fleeced
thick-fleshed
thick-flowing
thick-foliaged
thick-footed
thick-girthed
thick-growing
thick-grown
thick-haired
thick-head
thick-headed
thick-headedness
thick-hided
thick-hidedness
thick-jawed
thick-jeweled
thick-knee
thick-kneed
thick-knobbed
thick-laid
thick-leaved
thick-legged
thick-lined
thick-lipped
thick-looking
thick-maned
thick-necked
thick-packed
thick-pated
thick-peopled
thick-piled
thick-pleached
thick-plied
thick-ribbed
thick-rinded
thick-rooted
thick-rusting
thick-set
thick-shadowed
thick-shafted
thick-shelled
thick-sided
thick-sighted
thick-skinned
thick-skulled
thick-soled
thick-sown
thick-spaced
thick-spread
thick-spraying
thick-sprung
thick-stalked
thick-starred
thick-stemmed
thick-streaming
thick-swarming
thick-tailed
thick-tailed ray
thick-thronged
thick-toed
thick-tongued
thick-toothed
thick-topped
thick-voiced
thick-walled
thick-warbled
thick-winded
thick-witted
thick-wittedly
thick-wittedness
thick-wooded
thick-woven
thick-wristed
thick-wrought
thickness gauge
thickness of speech
thickness piece
thief ant
thief glass
thief tube
thief-resisting
thief-taker
thieves' cross
thigh boot
thigh boots
thigh puff
thigmo-
thill horse
thill-horse
thimble lily
thimble skein
thimble-crowned
thimble-eye
thimble-eyed
thimble-pie
thimble-shaped
thimble-sized
thin air
thin as a lath
thin as a rail
thin away
thin down
thin end of the wedge
thin ice
thin margin
thin off
thin out
thin person
thin register
thin skin
thin soup
thin space
thin wine
thin-ankled
thin-armed
thin-barked
thin-bedded
thin-bellied
thin-belly
thin-bladed
thin-blooded
thin-blown
thin-bodied
thin-bottomed
thin-brained
thin-cheeked
thin-clad
thin-coated
thin-cut
thin-descending
thin-eared
thin-faced
thin-featured
thin-film
thin-flanked
thin-fleshed
thin-flowing
thin-frozen
thin-fruited
thin-grown
thin-haired
thin-headed
thin-hipped
thin-laid
thin-leaved
thin-legged
thin-lined
thin-lipped
thin-lippedly
thin-lippedness
thin-necked
thin-officered
thin-peopled
thin-pervading
thin-rinded
thin-set
thin-shelled
thin-shot
thin-skinned
thin-skinnedness
thin-soled
thin-sown
thin-spread
thin-spun
thin-stalked
thin-stemmed
thin-veiled
thin-voiced
thin-walled
thin-worn
thin-woven
thin-wristed
thin-wrought
thing added
thing copied
thing desired
thing done
thing given as a pledge
thing imagined
thing of beauty
thing of interest
thing of naught
thing, the
thing-in-itself
thing-it-self
thing-word
things going against one
things going against you
things to be done
things to do
things-in-themselves
think about
think affirmatively
think aloud
think back
think best
think better of
think better of it
think dependable
think downbeat
think factory
think fit
think good
think hard
think highly of
think ill of
think improbable
think it over
think likely
think little of
think much of
think negatively
think no more of
think no more of it
think nothing of
think of
think one is it
think only of others
think out
think out loud
think over
think piece
think positively
think probable
think proper
think reliable
think tank
think that way about
think the best of
think the world of
think the worst of
think through
think too much of
think twice
think twice about
think unlikely
think up
think well of
think well of yourself
think worlds of
think your head off
think your shit doesn't stink
think-so
think-tank
thinking aloud
thinking cap
thinking machine
thinking of it later
thinking out
thinking over
thinking power
thinking shop
thinking through
thinned-out
thinning agent
thio acid
thio ether
thio salt
thio-
thio-ether
thioacetic acid
thioallyl ether
thioantimonic acid
thioarsenic acid
thioarsenious acid
thiocyan group
thiocyanic acid
thiocyanato group
thiocyanato radical
thioethyl alcohol
thioindigo red B
thioindigo red b
thiol-
thionic acid
thiopental sodium
thiopentone sodium
thiophosphoric acid
thiosulfuric acid
thiosulphuric acid
third astute
third base
third baseman
third best
third class
third degree
third dimension
third ear
third estate
third estate, the
third eyelid
third force
third hand
third house
third law of motion
third law of thermodynamics
third man
third market
third mate
third mortgage
third officer
third order
third part
third party
third party procedure
third person
third position
third rail
third rank
third reading
third sex
third stomach
third stream
third string
third stringer
third ventricle
third world
third-class
third-class mail
third-degree
third-degree burn
third-degreed
third-degreing
third-estate
third-force
third-hand
third-order
third-rail
third-rate
third-rateness
third-rater
third-string
third-world
thirst after
thirst country
thirst for
thirst for knowledge
thirst quencher
thirst-abating
thirst-allaying
thirst-creating
thirst-inducing
thirst-maddened
thirst-quenching
thirst-raising
thirst-scorched
thirst-tormented
thirsty for knowledge
thirsty soul
thirteen-day
thirteen-inch
thirteen-lined
thirteen-lined gopher
thirteen-pence halfpenny
thirteen-ring
thirteen-ring
thirteen-ring
thirteen-square
thirteen-stone
thirteen-story
thirteenth chord
thirty-acre
thirty-day
thirty-eight
thirty-eighth
thirty-fifth
thirty-first
thirty-five
thirty-foot
thirty-four
thirty-fourth
thirty-gunner
thirty-hour
thirty-inch
thirty-knot
thirty-mile
thirty-nine
thirty-ninth
thirty-one
thirty-pound
thirty-second
thirty-second note
thirty-second rest
thirty-seven
thirty-seventh
thirty-six
thirty-sixth
thirty-third
thirty-thirty
thirty-three
thirty-ton
thirty-two
thirty-twomo
thirty-twomos
thirty-word
thirty-yard
thirty-year
this AM
this PM
this aft
this afternoon
this and no other
this and that
this bank and shoal of time
this being so
this big
this day
this day and age
this goodly frame
this hour
this instant
this man's army
this minute
this moment
this morning
this night
this one
this pendent world
this point
this quintessence of dust
this scepter'd isle
this seat of Mars
this second
this single
this size
this stage
this very minute
this way
this world
this-a-way
this-way-ward
this-worldian
this-worldliness
this-worldly
this-worldness
thistle ball
thistle beard
thistle butterfly
thistle cock
thistle crown
thistle dollar
thistle family
thistle finch
thistle funnel
thistle noble
thistle poppy
thistle saffron
thistle sage
thistle tube
thistle-down
thistle-finch
thiuram disulphide
thompson submachine gun
thomsen's disease
thong leather
thong seal
thoraci-
thoracic duct
thoracic surgery
thoraco-
thoracolumbar nervous system
thorium dioxide
thorium emanation
thorium nitrate
thorium oxide
thorium series
thorn apple
thorn broom
thorn crown
thorn devil
thorn forest
thorn hedge
thorn in the flesh
thorn in the side
thorn in your flesh
thorn letter
thorn locust
thorn oyster
thorn palm
thorn plum
thorn poppy
thorn tree
thorn-apple
thorn-bearing
thorn-bound
thorn-bush
thorn-covered
thorn-crowned
thorn-encompassed
thorn-headed
thorn-hedge
thorn-hedged
thorn-marked
thorn-pricked
thorn-resisting
thorn-set
thorn-strewn
thorn-tree
thorn-wounded
thorn-wreathed
thornback ray
thornbill warbler
thorny problem
thorny-backed
thorny-edged
thorny-handed
thorny-pointed
thorny-pricking
thorny-thin
thorny-twinging
thoro-
thorough bass
thorough brace
thorough light
thorough stone
thorough-
thorough-bind
thorough-bore
thorough-cleanse
thorough-dress
thorough-dry
thorough-felt
thorough-fought
thorough-humble
thorough-light
thorough-lighted
thorough-line
thorough-made
thorough-paced
thorough-pin
thorough-ripe
thorough-shot
thorough-stain
thorough-stitch
thou breath of Autumn’s being
thou deep and dark blue ocean
thou scarlet sin
thou unrelenting past
thou weed
thou-shalt-not
though the heavens may fall
thought control
thought disorder
thought disturbance
thought reader
thought reading
thought transference
thought writing
thought-abhoring
thought-bewildered
thought-burdened
thought-challenging
thought-concealing
thought-conjuring
thought-depressed
thought-exceeding
thought-executing
thought-fed
thought-fixed
thought-free
thought-giving
thought-hating
thought-haunted
thought-heavy
thought-heeding
thought-hounded
thought-humbled
thought-imaged
thought-inspiring
thought-instructed
thought-involving
thought-jaded
thought-kindled
thought-laden
thought-lighted
thought-mad
thought-mastered
thought-meriting
thought-moving
thought-numb
thought-out
thought-outraging
thought-pained
thought-peopled
thought-poisoned
thought-pressed
thought-provoking
thought-read
thought-reading
thought-reviving
thought-ridden
thought-saving
thought-set
thought-shaming
thought-sounding
thought-stirring
thought-straining
thought-swift
thought-tight
thought-tinted
thought-tracing
thought-unsounded
thought-winged
thought-working
thought-worn
thought-worthy
thousand dollars
thousand island dressing
thousand million
thousand-acre
thousand-dollar
thousand-dollar bill
thousand-eyed
thousand-footed
thousand-guinea
thousand-handed
thousand-headed
thousand-headed kale
thousand-hued
thousand-jacket
thousand-leaf
thousand-legged
thousand-legger
thousand-legs
thousand-mile
thousand-pound
thousand-round
thousand-sided
thousand-souled
thousand-voiced
thousand-year
thousandth's place
thraco-phrygian
thrall-less
thrall-like
thrall-likethrallborn
thrash about
thrash out
thrash over
thrash soundly
thrasher shark
thrasher whale
thrashing-floor
thrashing-machine
thrashing-mill
thread angle
thread bar
thread blight
thread board
thread cabinet
thread cell
threading machine
threading tool
threadneedle street
threat to health
threatening course
three R's
three Rs
three balls
three birds
three estates
three hours
three hundred
three o' cat
three o'clock
three of a kind
three old cat
three parts
three percent
three r's
three sheets in
three sheets to the wind
three times
three-D
three-a-cat
three-accent
three-acre
three-act
three-aged
three-aisled
three-alarm fire
three-and-a-halfpenny
three-angled
three-arched
three-arm
three-arm protractor
three-armed
three-awned
three-bagger
three-ball
three-ballmatch
three-banded
three-bar
three-base hit
three-basehit
three-bearded
three-bid
three-blade
three-bladed
three-bodied
three-bolted
three-bottle
three-bottom
three-bottom plow
three-bout
three-branch
three-branched
three-bushel
three-by-four
three-capsuled
three-card
three-card lant
three-card loo
three-card monte
three-card trick
three-celled
three-centered arch
three-charge
three-charge rate
three-chinned
three-circle
three-circuit
three-circuit switch
three-class
three-class system
three-clause
three-cleft
three-coat
three-cocked
three-color
three-color photography
three-color printing
three-color process
three-color theory
three-colored
three-colour
three-component
three-coned
three-corded
three-corner
three-cornered
three-cornered hat
three-cornered needle
three-corneredness
three-course
three-crank
three-crowned
three-cup
three-cylinder
three-day
three-day fever
three-day measles
three-dayed
three-deck
three-deck vessel
three-decked
three-decker
three-deep
three-dimensional
three-dimensional chess
three-dimensional display
three-dimensional photography
three-dimensional war
three-dimensional wave
three-dimensionalness
three-dip
three-dropped
three- eared
three-echo
three-edged
three-effect
three-electrode
three-em space
three-eyed
three-faced
three-farthing
three-farthings
three-fathom
three-fibered
three-field
three-figure
three-fingered
three-floored
three-flowered
three-fold
three-foot
three-footed
three-forked
three-formed
three-four time
three-fourths
three-fruited
three-gaited
three-grained
three-groined
three-groove
three-grooved
three-guinea
three-halfpence
three-halfpenny
three-halfpennyworth
three-hand
three-handed
three-headed
three-high
three-hinged
three-hooped
three-horned
three-horse
three-hour
three-in-hand
three-in-one
three-inch
three-index
three-iron
three-island ship
three-jointed
three-layered
three-leaf
three-leafed
three-leaved
three-legged
three-legged race
three-letter
three-lettered
three-life
three-light
three-line
three-lined
three-lipped
three-lobed
three-man
three-mast
three-masted
three-master
three-mile
three-mile limit
three-minute
three-minute glass
three-month
three-monthly
three-mouther
three-move
three-mover
three-name
three-necked
three-nerved
three-ounce
three-out
three-ovuled
three-pair
three-part
three-part harmony
three-part time
three-parted
three-pass
three-peaked
three-petaled
three-phase
three-phase alternating current
three-phase alternator
three-phase motor
three-phase resistance welder
three-phased
three-phaser
three-piece
three-piece suit
three-pile
three-piled
three-piler
three-plait
three-ply
three-point
three-point landing
three-point perspective
three-point problem
three-point switch
three-point turn
three-pointed
three-pointing
three-position
three-poster
three-pound
three-pound piece
three-pounder
three-power receiver
three-pronged
three-quality
three-quart
three-quarter
three-quarter back
three-quarter bed
three-quarter binding
three-quarter nelson
three-quarter time
three-quarter tone
three-quarter turn stair
three-quarter vamp
three-quarter-bred
three-quarters nelson
three-rail
three-ranked
three-reel
three-ribbed
three-ridge
three-ring
three-ring circus
three-ring ed
three-ring ed circus
three-roll
three-room
three-room ed
three-row
three-row ed
three-sail
three-salt
three-scene
three-second
three-seeded
three-shanked
three-shaped
three-shilling
three-sided
three-sidedness
three-sixty
three-soled
three-space
three-span
three-speed
three-spined
three-spored
three-spot
three-spread
three-square
three-square file
three-stage rocket
three-star
three-star general
three-winged
three-wire
tree-wire cable
tree-wire generator
tree-wire system
tree-wive
tree-woods
tree-wormed
tree-year
tree-year-old
tree-years
treefold block
treefold purchase
treefold tackle
threepenny bit
threepenny piece
threescore and ten
threescore years and ten
thresh out
thresh over
thresher shark
thresher whale
threshing floor
threshing machine
threshold exposure
threshold frequency
threshold of sensation
thrice and four times blessed
thrice happy
thrice-accented
thrice-blessed
thrice-boiled
thrice-crowned
thrice-famed
thrice-great
thrice-happy
thrice-honorable
thrice-noble
thrice-sold
thrice-told
thrice-venerable
thrice-worthy
thrift shop
thrift society
thrift stamp
thifty person
thrill killer
thrill of fear
thrill seeker
thrill to
thrill-crazed
thrill-exciting
thrill-less
thrill-pursuing
thrill-sated
thrill-seeking
thrill-diller
thrilling all over
thriving condition
throat brail
throat cavity
throat halyards
throat microphone
throat mike
throat plate
throat seizing
throat sheet
throat sweetbread
throat track
throat-clearing
throat-clutching
throat-cracking
throat-full
throat-latch
throat-slitting
throat-swollen
throbbing pain
throes of death
throgmorton street
thromb-
thrombo-
throne of God
throne room
throne-born
throne-capable
throne-shattering
throne-worthy
throned on highest bliss
throng in
throng with
throstle cock
throstle-cock
throttle down
throttle lever
throttle valve
throttling bar
throttling governor
through and through
through bass
through bolt
through bond
through bridge
through check
through cut
through fire and water
through message
through rate
through retort
through road
through shake
through stane
through stone
through street
through switch
through the agency of
through the good offices of
through the instrumentality of
through the medium of
through the mill
through the night
through thick and thin
through way
through with
through with a fine-tooth comb
through-
through-and-through
through-blow
through-carve
through-cast
through-composed
through-drainage
through-drive
through-formed
through-galled
through-ither
through-joint
through-key
through-lance
through-mortise
through-nail
through-other
through-passage
through-pierce
through-rod
throw in the face of
throw in the sponge
throw in the towel
throw in together
throw in with
throw in your teeth
throw into a snit
throw into a stew
throw into a swivet
throw into a tizzy
throw into confusion
throw into disorder
throw into jail
throw into the shade
throw lathe
throw light on
throw light upon
throw line
throw money around
throw mud at
throw of dice
throw of the dice
throw off
throw off all disguise
throw off balance
throw off the scent
throw off your guard
throw on
throw on one's beam end
throw on paper
throw on the junk heap
throw on the market
throw on your beam ends
throw open
throw open to
throw out
throw out a feeler
throw out a hint
throw out a smoke screen
throw out of gear
throw out of joint
throw out of order
throw out on your ear
throw out the window
throw out your chest
throw over
throw overboard
throw rug
throw stick
throw stones at
throw the book at
throw the bull
throw the first stone
throw the spotlight on
throw to the dogs
throw together
throw under the jailhouse
throw up
throw up the cards
throw up your hands
throw your arms around
throw your back at
throw your hat in the ring
throw your money away
throw your weight around
throw your weight into the scale
throw yourself at the feet of
throw yourself at the head of
throw yourself into
throw yourself into the arms of
throw yourself on
throw yourself on your knees
throw-
throw-back
throw-crook
throw-forward
throw-in
throw-off
throw-on
throw-over
throw-on
throwing away
throwing downstairs
throwing engine
throwing iron
throwing knife
throwing net
throwing open
throwing out
throwing overboard
throwing power
throwing stick
throwing your hat in the ring
throwing-in
throwing-stick
thrown away
thrown for a loss
thrown into the shade
thrown over
thrown silk
thrown together
thrum-eyed
thrush blackbird
thrush brown
thrush fungus
thrush lichen
thrush nightingale
thrush tit
thrush-breast heart
thrust and parry
thrust aside
thrust at
thrust augmentation
thrust augmenter
thrust back
thrust bearing
thrust coefficient
thrust deduction
thrust down
thrust fault
thrust hoe
thrust in
thrust in the face of
thrust out
thrust over
thrust plane
thrust shaft
thrust to one side
thrust upon
thrust yourself forward
thrust yourself upon
thrusting under
thuja oil
thulium oxide
thumb a ride
thumb ball
thumb bottle
thumb box
thumb cleat
thumb down
thumb flint
thumb glass
thumb hole
thumb holing
thumb index
thumb knot
thumb lancet
thumb lock
thumb loose
thumb notch
thumb nut
thumb one's nose at
thumb over
thumb pad
thumb pin
thumb piston
thumb plane
thumb pot
thumb ring
thumb rule
thumb through
thumb turn
thumb your nose
thumb your nose at
thumb your way
thumb-and-finger
thumb-fingered
thumb-index
thumb-kissing
thumb-made
thumb-mark
thumb-marked
thumb-nail
thumb-ring
thumb-rope
thumb-screw
thumb-shaped
thumb-stall
thumb-sucker
thumb-sucking
thumb-worn
thumbing a ride
thumbnail sketch
thumbs down
thumbs up
thumbs-down
thumbs-up
thump in
thump the tub for
thump-cushion
thumped-in landing
thunder against
thunder along
thunder and lightning
thunder at the top of your voice
thunder ax
thunder forth
thunder god
thunder gods
thunder mug
thunder of applause
thunder planet
thunder plant
thunder pumper
thunder rod
thunder snake
thunder spirit
thunder tube
thunder-armed
thunder-baffled
thunder-bearer
thunder-blast
thunder-breathing
thunder-charged
thunder-clap
thunder-cloud
thunder-darting
thunder-delighting
thunder-dirt
thunder-fearless
thunder-footed
thunder-forging
thunder-fraught
thunder-free
thunder-girt
thunder-god
thunder-guiding
thunder-gust
thunder-hid
thunder-laden
thunder-maned
thunder-rejoicing
thunder-riven
thunder-ruling
thunder-scarred
thunder-scathed
thunder-shod
thunder-slain
thunder-smitten
thunder-splintered
thyroid gland
thyroid-stimulating hormone
ti palm
ti tree	
tib-cat
tibetan terrier
tibeto-burman	
tibio-
tic douloureux
tic-polonga
tic-tac-toe
tick bird
tick clover
tick doloru
tick fancy
tick fever
tick off
tick over
tick paralysis
tick trefoil
tick-a-tick
tick-bird
tick-borne typhus
tick-tack
tick-tack-toe
tick-tack-too
tick-tick
ticked off
ticker market
ticker tape
ticker-tape parade
ticket agency
ticket agent
ticket booth
ticket chopper
ticket clerk
ticket collector
ticket day
ticket gate
ticket holder
ticket maker
ticket night
ticket of admission
ticket of leave
ticket office
ticket porter
ticket printer
ticket punch
ticket rack
ticket scalper
ticket taker
ticket varnisher
ticket window
ticket writer
ticket-canceling
ticket-counting
ticket-dating
ticket-making
ticket-of-leave
ticket-of-leave man
ticket-of-leaver
ticket-porter
ticket-printing
ticket-registering
ticket-selling
ticket-vending
tickets of leave
tickety-boo
ticking work
tickle grass
tickle in the palm
tickle pink
tickle the fancy
tickle the palate
tickle the palm
tickle to death
tickle your fancy
tickle-footed
tickle-headed
tickle-heeled
tickle-toby
tickle-tongued
tickled pink
tickled to death
tickled with a straw
tickler coil
tickler file
ticklish business
ticklish issue
ticklish spot
tickly-benders
tickseed sunflower
ticktack man
tidal amplitude
tidal basin
tidal bench mark
tidal bore
tidal current
tidal current chart
tidal datum
tidal flat
tidal flats
tidal flood
tidal flow
tidal light
tidal pond
tidal pool
tidal range
tidal stream
tidal wave
tide boat
tide chart
tide crack
tide day
tide gage
tide gate
tide gauge
tide hole
tide lock
tide mill
tide of time
tide over
tide pole
tide pool
tide predictor
tide race
tide register
tide rip
tide staff
tide table
tide wave
tide way
tide wheel
tide work
tide-beaten
tide-beset
tide-bound
tide-caught
tide-covered
tide-driven
tide-flooded
tide-forsaken
tide-free
tide-gauge
tide-generating
tide-locked
tide-mark
tide-marked
tide-mill
tide-predicting
tide-producing
tide-ribbed
tide-rip
tide-rode
tide-swept
tide-taking
tide-trapped
tide-waiter
tide-washed
tide-water
tide-worn
tideland spruce
tidewater cypress
tidewater glacier
tidy step
tidy sum
tidy up
tidy-kept
tidy-looking
tidy-minded
tidy-up
tie band
tie bar
tie beam
tie bolt
tie breaker
tie clasp
tie clip
tie conductor
tie cord
tie down
tie dyeing
tie feeder
tie hand and foot
tie in
tie in a reef
tie in with
tie knot
tie line
tie mill
tie off
tie one on
tie periwig
tie plate
tie point
tie post
tie rod
tie rope
tie silk
tie stay
tie strap
tie tack
tie the hands of
tie the knot
tie the nuptial knot
tie the wedding knot
tie up
tie up with
tie up with red tape
tie up your money in
tie wall
tie your hands
tie-
tie-and-dye
tie-down
tie-dyeing
tie-in
tie-in sale
tie-off rail
tie-on
tie-out
tie-plater
tie-tie
tie-up
tie-wig

tied down
tied house
tied image
tied letters
tied score
tied to your apron strings
tied up
tied up in
tier building
tier ranger
tier shot
tier table
tierce de Picardie
tierce major
tierce minor
tierce point
tierce rhyme
tiers etat
tiers-argent
ties of affection
ties of blood
tiger beetle
tiger bittern
tiger cat
tiger chop
tiger cocoa
tiger cowrie
tiger finch
tiger fish
tiger frog
tiger grass
tiger heart
tiger lily
tiger milk
tiger mosquito
tiger moth
tiger python
tiger salamander
tiger shark
tiger shell
tiger snake
tiger swallowtail
tiger wolf
tiger’s milk
tiger’s-eye
tiger-cat
tiger-footed
tiger-lily heart
tiger-looking
tiger-marked
tiger-minded
tiger-mouth
tiger-passioned
tiger-spotted
tiger-striped
tight cooper
tight discipline
tight fit
tight grip
tight hand
tight joint
tight money
tight purse strings
tight rein
tight rope
tight ship
tight spot
tight squeeze
tight-ankled
tight-belted
tight-bodied
tight-booted
tight-bound
tight-clap
tight-clenched
tight-closed
tight-draped
tight-drawn
tight-fisted
tight-fitting
tight-gartered
tight-hosed
tight-knit
tight-laced
tight-limbed
tight-lipped
tight-looking
tight-made
tight-mouthed
tight-necked
tight-packed
tight-pressed
tight-reining
tight-rooted
tight-set
tight-shut
tight-skinned
tight-skirted
tight-sleeved
tight-stretched
tight-tie
tight-valved
tight-waisted
tight-wound
tight-woven
tight-wristed
tighten the purse strings
tighten your belt
tightening pulley
tightrope walker
tiglic acid
til oil
til seed
til tree
tile drain
tile hook
tile kiln
tile maker
tile ore
tile painter
tile pin
tile pipe
tile red
tile roof
tile setter's hammer
tile-clad
tile-covered
tile-fish
tile-pin
tile-red
tile-roofed
till alarm
till basket
till death
till death do us part
till doomsday
till hell freezes over
till money
till now
till shrimps learn to whistle
till the cows come home
till the end of time
till the soil
till then
till time runs out
till time stops
till you are blue in the face
till you're blue in the face	illier bow	illier chains	illier lines	illier of the soil	illier rope	tilleul green	tilly-fally	tilly-vally	tilt angle	tilt at
tilt at windmills
tilt boat
tilt bonnet
tilt hammer
tilt mill
tilt roof
tilt steel
tilt with
tilt-boat
tilt-hammer
tilt-top table
tilt-up
tilt-yard
tilting chest
tilting conveyor
tilting fillet
tilting ground
tilting hammer
tilting helmet
tilting level
tilting yard
tim-whiskey
timbale case
timbale iron
timber bamboo
timber bar
timber beetle
timber borer
timber contractor
timber cruiser
timber cutter
timber estimating
timber estimator
timber faller
timber forest
timber frame
timber grapple
timber grouse
timber hitch
timber jumper
timber knot
timber leader
timber limit
timber line
timber loader
timber mare
timber marker
timber measurer
timber mill
timber preserver
timber rattlesnake
timber right
timber rot
timber scribe
timber shifter
timber toe
timber topper
timber topping
timber tower
timber tree
timber unloader
timber wheels
timber wolf
timber worm
timber yard
timber-boring
timber-built
timber-carrying
timber-ceilinged
timber-covered
timber-cutting
timber-devouring
timber-eating
timber-floating
timber-framed
timber-headed
timber-hitch
timber-laden
timber-line
timber-lined
timber-producing
timber-propped
timber-skeletoned
timber-strewn
timber-toed
timber-tree
timber-wood
timber-work
timber-yard
timbrel arch
timbrel vault
time about
time after time
time ahead
time allotment
time allowance
time to come
time to kill
time to spare
time train
time trial
time triangle
time value
time was
time waster
time without end
time zone
time's caravan
time's forelock
time-authorized
time-ball
time-bargain
time-barred
time-battered
time-beguiling
time-bent
time-bettering
time-bewasted
time-binding
time-blackened
time-blanching
time-born
time-bound
time-breaking
time-canceled
time-changed
time-cleft
time-consuming
time-delay relay
time-deluding
time-discolored
time-eaten
time-economizing
time-enduring
time-expired
time-exposure
time-fused
time-gnawn
time-halting
time-hastening
time-honored
time-honored practice
time-honoured
time-interval meter
timing unit
timing valve
timothy grass
tin ash
tin bronze
tin calciner
tin can
tin chloride
tin cow
tin cry
tin crystal
tin cup
tin dichloride
tin dioxide
tin disease
tin ear
tin fish
tin foil
tin frame
tin glaze
tin god
tin hare
tin hat
tin kettle
tin liquor
tin lizzie
tin loaf
tin monoxide
tin opener
tin ore
tin oxide
tin pail
tin pan alley
tin pest
tin plague
tin plate
tin plater
tin pot
tin pulp
tin putty
tin pyrite
tin pyrites
tin salt
tin shop
tin smelter
tin snips
tin soldier
tin spirit
tin spirits
tin spot
tin stream
tin streamer
tin streaming
tin tack
tin tetrachloride
tin wash
tin washing
tin wedding
tin whistle
tin-bearing
tin-bottomed
tin-bound
tin-bounder
tin-capped
tin-colored
tin-covered
tin-eared
tin-edged
tin-filled
tin-foil
tin-foil paper
tin-foiler
tin-glass
tin-glazed
tin-handled
tin-kettle
tin-kettler
tin-lined
tin-mailed
tin-opener
tin-pan
tin-pan alley
tin-plate
tin-plate worker
tin-plated
tin-plating
tin-pot
tin-pottery
tin-pottiness
tin-potty
tin-roofed
tin-stone
tin-tabled
tin-tack
tin-type
tin-whistle
tin-white
tina process
tincture of iodine
tincture of opium
tincture press	
tinder fungus
tinder-cloaked
tinder-dry
tinea barbae
ting ware
ting-a-ling
tingle with excitement	
tinhorn gambler	
tink-a-tink
tinker mackerel	
tinker up
tinker's dam
tinker's damn
tinker's damn, a
tinker's weed
tinkle-tankle
tinkle-tankling
tinned dog
tinned goods
tinning stack
tinsel-bright
tinsel-clad
tinsel-covered
tinsel-embroidered
tinsel-paned
tinsel-slippered	
tint block	
tint meter
tint photometer
tint tool
tiny bit
tip and run
tip cap
tip car
tip cheese
tip crane
tip in
tip off
tip over
tip plant
tip roast
tip roll
tip sled
tip slide
tip speed
tip table
tip the hat to
tip the scale
tip the scales
tip truck
tip van
tip wagon
tip worm
tip your hand
tip-
tip-and-run
tip-cat
tip-crowning
tip-curl
tip-ear
tip-finger
tip-in
tip-off
tip-on
tip-tap
tip-tilt
tip-top
tip-top table
tip-up
tip-up table
tippa-malku
tipper truck
tipper-off	ippet
tippet-grebe
tippet-scuffle	ipping center	ipping house	ippling house	ipsy cake	ipsy key	ipsy-cake	ipsy-topsy	ire becker	ire bender	ire borer	ire buffer	ire carrier	ire case	ire cement	ire chain
tire changer
tire chipper
tire clamp
tire compressor
tire cooler
tire core
tire cover
tire curler
tire dresser
tire examiner
tire fastener
tire filler
tire finisher
tire fitter
tire gauge
tire heater
tire holder
tire iron
tire lacing
tire lock
tire mold
tire molder
tire out
tire preservative
tire press
tire pressman
tire prier
tire protector
tire pump
tire rack
tire remover
tire repairman
tire retreader
tire roller
tire setter
tire shaper
tire shoe
tire shrinker
tire stamper
tire tape
tire to death
tire tool
tire tread
tire tube
tire turner
tire upsetter
tire valve
tire vulcanizer
tire-bending
tire-changing
tire-filling
tire-heating
tire-inflating
tire-mile
tire-woman
tired and weary-laden
tired cliche
tired market
tired of
tired of living
tired out
tired to death
tired-armed
tired-eyed
tired-faced
tired-headed
tired-looking
tired-winged
tiresome work
tiring house
tiring irons
tiring maid
tiring room
tiring woman
tiring-house
tiring-irons
tiring-room
tirle-wirlie
tirling pin
tirly-toy
tirra-lirra
tishah-b'ab
tissue culture
tissue fibrinogen
tissue fluid
tissue paper
tissue-building
tissue-changing
tissue-destroying
tissue-forming
tissue-paper
tissue-producing
tissue-secreting	isty-tosy	it babbler	it drill
tit for tat
tit in the wringer
tit screw
tit-bit
tit-tat-toe
tit-up
tita root
titading or caption
titan crane
titanic acid
titanic anhydride
titanic iron ore
titanic oxide
titanium dioxide
titanium oxide
titanium white
titano-
titer test
tithe barn
tithe collector
tithe gatherer
tithe man
tithe pig
tithe proctor
tithe-collecting
tithe-free
tithe-paying
tithing-man
title bearer
title border
title catalog
title catalogue
title deed
title deeds and papers
title essay
title hero
title insurance
title letter
title lining
title of honor
title page
title role
title space
title type
title-bearing
title-deed
title-holding
title-hunting
title-mad
title-page
title-seeking
title-winning
titter-totter
tittle-tattle
tittle-tattled
tittle-tattler
tittle-tattling	titular bishop	
tityre-tu	
tiz-woz
to a T
to a certain extent
to a certainty
to a degree
to a draw
to a fare-thee-well
to a fare-ye-well
to a fare-you-well
to a fault
to a finish
to a frazzle
to a great degree
to a great extent
to a hair
to a large extent
to a man
to a nicety
to a small degree
to a small extent
to a standoff
to a tee
to a tie
to a tittle
to a turn
to advantage
to all appearances
to all intents and purposes
to all seeming
to an extent
to an inch
to and fro
to any end
to atone for
to be brief
to be counted on
to be counted on your fingers
to be depended upon
to be desired
to be exact
to be expected
to be fair
to be had
to be on the road
to be precise
to be preferred
to be reckoned on
to be relied upon
to be seen
to be specific
to be sure
to be trusted
to beat the Dutch
to beat the band
to beat the deuce
to beat the devil
to bits
to blame
to boot
to cite an instance
to come
to come to the point
to completion
to crown all
to cut the matter short
to date
to death
to do
to everywhere
to excess
to explain
to extremes
to fit the pocketbook
to gain some private ends
to gild refined gold
to go
to good account
to good effect
to good purpose
to good use
to grin like a Cheshire cat
to guess
to hand
to have and to hold
to have sex

to hawse

to heel

to hell and back

to his executors and assigns

to his heirs

to his heirs and assigns

to illustrate

to infinity

to judge by appearances

to kalon

to keep

to landward

to lease

to leeward

to let

to little purpose

to make a dent

to make a guess

to make a long story short

to name an instance

to no extent

to no purpose

to nourish a viper in your bosom

to one side

to order

to paint the lily

to perfection

to pieces

to post on a diagonal

to profit

to prove the point

to relieve yourself

to retain

to rights

to say nothing of

to sell

to shards

to shreds

to smithereens

to some degree

to some extent

to some purpose

to spare

to speak of

to speak truthfully

to splinters

to state the fact
to state the truth
to such an extent
to tatters
to tell the truth
to that place
to the account of
to the amount of
to the backbone
to the bad
to the best of your ability
to the best of your belief
to the best of your knowledge
to the bitter end
to the brim
to the contrary
to the core of
to the crack of doom
to the credit of
to the death
to the edge of doom
to the end
to the end of time
to the end that
to the extreme
to the eye
to the fore
to the four corners of the earth
to the four winds
to the front
to the full
to the good
to the heart of
to the heirs of his body
to the highest degree
to the hilt
to the king's taste
to the last gasp
to the last trumpet
to the left
to the letter
to the life
to the limit
to the manner born
to the marrow
to the memory of
to the minute
to the nth degree
to the nth power
to the past

to the point

to the point of exhaustion

to the purpose

to the queen's taste

to the rear

to the right

to the same degree

to the second

to the side

to the skies

to the sky

to the teeth

to the top of your bent

to the tune of

to the utmost

to the wind

to the windward

to the wise

to the zenith

to this day

to this place

to throw a perfume on the violet


to what extent


to what place


to which place


to windward


to wit


to year and day


to your account


to your amazement


to your astonishment


to your cost


to your credit


to your delight


to your disgust


to your displeasure


to your face


to your fancy


to your fingertips


to your great glee


to your great surprise


to your health


to your heart's content


to your knowledge


to your liking


to your mind


to your satisfaction
to your shame

to your shame be it spoken

to your surprise

to your taste

to your utmost

to your way of thinking

to-

to-and-fro

to-and-fros

to-and-ko

to-arrive

to-be

to-break

to-burst

to-day

to-do

to-dos

to-draw

to-drive

to-fall

to-morn

to-morrow

to-name

to-night

to-rend

to-rights

to-side

to-tear

to-year

toad bug

toad grass

toad lily

toad orchis

toad rush

toad snatcher

toad spit

toad spittle

toad spot

toad stabber

toad sticker

toad's-mouth

toad-bellied

toad-blind

toad-eat

toad-eater

toad-fish

toad-flax

toad-frog
toad-green
toad-hating
toad-housing
toad-in-the-hole
toad-legged
toad-shaped
toad-spotted
toad-swollen
toadstool disease
toady to
toast color
toast list
toast rack
toast water
toast-brown
toasted cheese sandwich
toasting fork
toasting iron
tobacco addiction
tobacco bagger
tobacco barn
tobacco beetle
tobacco belt
tobacco box
tobacco brown
tobacco bug
tobacco camphor
tobacco carton
tobacco case
tobacco chewing
tobacco cloth
tobacco cultivator
tobacco cutter
tobacco dryer
tobacco dust
tobacco fertilizer
tobacco flea beetle
tobacco granulator
tobacco grater
tobacco hawk moth
tobacco heart
tobacco hornworm
tobacco juice
tobacco lath
tobacco leaf miner
tobacco liquor
tobacco liquorer
tobacco machine
toby jug
toc-toc
toccata form
tocharian a
tocharian b
tocher band
tocher good
toco-
tod stove	
toddle along
toddy bird
toddy blossom
toddy cat
toddy ladle
toddy palm
toddy stick
toddy table
toddy tree
toe and heel
toe biter
toe box
toe calk
toe cap
toe clip
toe crack
toe dance
toe dancer
toe distance
toe dog
toe hardy
toe hold
toe kisser
toe kissing
toe piling
toe rail
toe ring
toe the line
toe the mark
toe upon
toe wall
toe weight
toe-dance
toe-danced
toe-dancing
toe-drop
toe-in
toe-mark
toe-punch
toffee dipper
toffee-apple
toffee-nosed
tog out
tog up
toga virilis
together on
together with
toggle bolt
toggle chain
toggle harpoon
toggle hook
toggle iron
toggle joint
toggle motion
toggle press
toggle rail
toggle riveter
toggle switch
toggle-joint press
toggle-jointed
togt-rider
togt-riding
tohu-bohu
toil and moil
toil and trouble
toil-assuaging
toil-beaten
toil-bent
toil-exhausted
toil-hardened
toil-marred
toil-oppressed
toil-stained
toil-stricken
toil-tried
toil-weary
toil-won
toil-worn
toile de Jouy
toile de jouy
toilet article
toilet atomizer
toilet bottle
toilet bowl
toilet brush
toilet cabinet
toilet case
toll clerk
toll collector
toll corn
toll dish
toll farmer
toll highway
toll inspector
toll line
toll road
toll thorough
toll traverse
toll turn
toll-book
toll-dish
toll-free
toll-gatherer
toll-house
tollhouse cooky
tolling dog
tolling of the knell
tolosa wood
tolu balsam
tolu resin
tolu tree
tolu-
toluene trichloride
toluene trifluoride
toluic acid
toluidine blue
toluidine red
toluric acid
toluyl radical
tolyl group
tolyl radical
tom and jerry
tom collins
tom hurry
tom pudding
tom tailor
tom thumb
tom tiddler's ground
tom turkey
tom-ax
tom-cod
tom-fool
tom-noddy
tom-tit
tom-toe
tom-tom
tom-trot
tomato aspic
tomato black rot
tomato blight
tomato bouillon
tomato can
tomato curly top
tomato eggplant
tomato fern
tomato fruitworm
tomato gill
tomato hamper
tomato hawk moth
tomato hornworm
tomato juice
tomato ketchup
tomato leaf blight
tomato leaf mold
tomato mosaic
tomato packer
tomato paste
tomato pulp
tomato puree
tomato red
tomato sauce
tomato scalded
tomato soup
tomato sphinx
tomato streak
tomato stripe
tomato transplanter
tomato trellis
tomato wilt
tomato worm
tomato yellows
tomato-colored
tomato-growing
tomato-leaf
tomato-washing
tomb bat
tomb house
tomb maker
tomb tower
tomb-bat
tomb-black
tomb-breaker
tomb-dwelling
tomb-making
tomb-paved
tomb-robbing
tomb-strewn
tomblike silence
tombstone marking
tomcat around
tomkin post
tommy bar
tommy book
tommy day
tommy gun
tommy hole
tommy master
tommy noddy
tommy shop
tommy system
tommy-axe
tommy-gun
ton-foot
ton-force
ton-kilometer
ton-mile
ton-mileage
ton-up
tonal gap
tonal island
tone accent
tone arm
tone cluster
tone color
tone colour
tone control
tone deafness
tone down
tone gap
tone grammar
tone island
tone language
tone long
tone measurer
tone of voice
tone of your voice
tone painting
tone pattern
tone picture
tone poem
tone poet
tone poetry
tone quality
tone row
tone syllable
tone tester
tone up
tone wheel
tone with
tone-deaf
tone-full
tone-producing
tone-setter
tone-up
toned down	
tong borer
tongue and groove
tongue bar
tongue bird
tongue bit
tongue blade
tongue bone
tongue compressor
tongue cover
tongue depressor
tongue fern
tongue fish
tongue graft
tongue grafting
tongue grass
tongue hero
tongue in cheek
tongue joint
tongue pipe
tongue shell
tongue sole
tongue swallowing
tongue tree
tongue truck
tongue twister
tongue work
tongue worm
tongue-and-groove joint
tongue-back
tongue-baited
tongue-hang
tongue-bitten
tongue-blade
tongue-bound
tongue-dumb
tongue-flowered
tongue-free
tongue-front
tongue-garbled
tongue-gilt
tongue-graft
tongue-haltered
tongue-hammer
tongue-jangling
tongue-kill
tongue-lash
tongue-lashing
tongue-leaved
tongue-lolling
tongue-murdering
tongue-pad
tongue-point
tongue-puissant
tongue-shaped
tongue-tack
tongue-taming
tongue-taw
tongue-tie
tongue-tied
tongue-tier
tongue-valiant
tongue-wagging
tongue-walk
tongue-wanton
tonguing plane
tonguing-and-grooving plane
tonic accent
tonic chord
tonic epilepsy
tonic key
tonic major
tonic minor
tonic motion
tonic section
tonic sol-fa
tonic sol-faist
tonic spasm
tonic treatment
tonic triad
tonic water
tonka bean
tonka bean camphor
tonka-bean camphor
tonka-bean wood
tonnage coefficient
tonnage deck
tonnage displacement
tonnage duty
tonnage length
tonnage opening
tonnage pool
tonnage train
tonnage well
tonneau cover
tonneau lamp
tonneau windshield
tono-
tonsill-
tonsured cleric
too bad
too big
too big for your britches
too big for your shoes
too clever by half
too deep for
too early
too far
too few
too frugal
too funny for words
too killing for words
too late
too little
too many cooks
too many irons in the fire
too much
too much at once
too much for
too much of a good thing
too much with us
too precious for words
too soon
too soon off the mark
too-aged
too-anxious
too-big
too-bigness
too-bold
too-celebrated
too-confident
too-coy
too-dainty
too-devoted
too-early
too-earnest
too-familiar
too-fervent
too-forced
too-good
too-hectic
too-large
too-late
too-lateness
too-laudatory
too-long
too-much
too-muchness
too-near
too-old
too-patient
too-piercing
too-proud
too-ripe
too-short
too-soon
too-soonness
too-timely
too-too
too-trusting
too-willing
too-wise
too-young
toodle-oo
tool angle
tool apron
tool bag
tool belt
tool boy
tool cabinet
tool car
tool carriage
tool carrier
tool cart
tool case
tool chest
tool coupling
tool demagnetizer
tool engineer
tool-and-die maker
tool-cleaning
tool-cutting
tool-dresser
tool-dressing
tool-maker
tool-sharpening
tool-using
tooling up
toolroom lathe
tools and machinery
toot plant
toot your own horn
tooth and nail
tooth ax
tooth caliper
tooth chisel
tooth cleaner
tooth cough
tooth cress
tooth decay
tooth doctor
tooth edge
tooth fever
tooth filling
tooth for tooth
tooth forceps
tooth fungus
tooth gauge
tooth key
tooth mark
tooth ornament
tooth paste
tooth plane
tooth plugger
tooth powder
tooth puller
tooth pulp
tooth rail
tooth rash
tooth relic
tooth sac
tooth shell
tooth violet
tooth wheel
tooth wound
tooth-billed
tooth-bred
tooth-brush
tooth-chattering
tooth-drawer
tooth-extracting
tooth-leaved
tooth-marked
tooth-pulling
tooth-rounding
tooth-set
tooth-setting
tooth-shaped
tooth-shell
tooth-tempting
tooth-winged
toothache grass
toothache tree
toothbrush tree
toothed whale
toothed-billed
toothful grin
toothing plane
toothy-peg
tootle bug
tootsy-wootsies
tootsy-wootsy
top banana
top beam
top billing
top block
top boot
top boots
top brass
top burton
top cinder
top cleaner
top cow
top deck
top dog
top drawer
top dresser
top dressing
top executive
top flight
top floor
top gallery
top grafting
top hamper
top hat
top horse
top lift
top light
top line
top liner
top milk
top notch
top of house
top of the world
top off
top out
top part
top people
top price
top priority
top round
top secret
top sergeant
top shape
top side
top slice
top slicing
top speed
top spin
top spot
top the
top timber
top up
top yeast
top-
top-armor
top-boot
top-cap
top-castle
top-coated
top-cross
top-cutter
top-dog
top-drain
top-drawer
top-dress
top-dressing
top-flight
top-full
top-graft
top-hamper
top-hampered
top-hand
top-hat
top-hatted
top-heavily
top-heaviness
top-heavy
top-heavy market
top-hole
top-level
top-lit
top-notch
top-over-tail
top-piece
top-rank
top-ranking
top-road bridge
top-sawyer
top-secret
top-set
top-sew
top-shaped
top-shell
top-stone
top-timber
top-work
topaz quartz
topaz rock
topaz-colored
topaz-green
topaz-tailed
topaz-throated
topaz-tinted
topaz-yellow
toper's-plant
topgallant mast
topgallant sail
topgallant yard
tophus stone
topic of the day
topic sentence
topical anesthetic
topical outline
topknot pigeon
topo-
topographic chart
topographico-mythical
topological equivalence
topological group
topological invariant
topological space
topological transformation
topping lift
topping off
topping-off
topping-out course
topple down
topple over
tops, the
topsail schooner
topsail-tye
topsy-turn
topsy-turnness
topsy-turvical
topsy-turvies
topsy-turvification
topsy-turvifier
topsy-turvy
topsy-turvydom
topsy-turvyhood
topsy-turvyism
topsy-turvyist
topsy-turvyize
torch cactus
torch course
torch dance
torch flower
torch holder
torch light
torch lily
torch pine
torch race
torch singer
torch singing
torch song
torch staff
torch thistle
torch tree
torch-bearer
torch-fish
torch-light
torch-tree family
torch-wood
torchon board
torchon lace
torchon paper
torchwood family
toreador pants
toric lens
toringo crab apple
torment of Tantalus
torrentor wing
tom-down
tomado belt
tomado cellar
tomado cloud
tomado insurance
tomado lamp
tomado lantern
tomado-breeding
tomado-haunted
tomado-swept
toro bravo
tororo-konbu
tororo-kubu
torpedo battery
torpedo boat
torpedo body
torpedo bomber
torpedo boom
torpedo catcher
torpedo director
torpedo fish
torpedo mine
torpedo net
torpedo ram
torpedo rocket
torpedo room
torpedo sand
torpedo school
torpedo spar
torpedo station
torpedo stern
torpedo strike aircraft
torpedo tube
torpedo-boat
torpedo-boat catcher
torpedo-boat destroyer
torpedo-shaped
torque arm
torque converter
torque tube
torque wrench
torrent bow
torrent duck
torrent of rain
torrent-bitten
torrent-born
torrent-braving
torrent-flooded
torrent-mad
torrent-swept
torrid heat
torrid zone
torsion angle
torsion axis
torsion balance
torsion bar
torsion basin
torsion curve
torsion galvanometer
torsion group
torsion head
torsion meter
torsion pendulum
torsion scale
torsion screw
torsion spasm
torsion spring
torsion-free group
torsional stress
torso murder	
tort-feasor
tortoise beetle
tortoise flower
tortoise plant
tortoise shell
tortoise that supports the earth
tortoise's pace
tortoise-core
tortoise-footed
tortoise-headed
tortoise-paced
tortoise-rimmed
tortoise-roofed
tortoise-shaped
tortoise-shell
tortoise-shell butterfly
tortoise-shell cat
tortoise-shell turtle
tortoiseshell turtle
torture the law to your own ends
torus palatinus	
tory democracy
tory-rory
tosh nailing
tosh-up
toss and tumble
toss and turn
toss around
toss at
toss down
toss off
toss out
toss overboard
toss the head
toss together
toss up
toss your cookies
toss your drink
toss your hat in the ring
toss-up
tossed salad
tossing and turning	
tossing-in
tot system
tot to
tot up
tot up to
total abstinence
total agreement
total approach
total attention
total bases
total blindness
total change
total commitment
total compensation
total darkness
total defeat
total depravity
total differential
total eclipse
total effect
total environment
total heat
total immersion
total impression
total impulse
total internal reflection
total loss
total loss only policy
total memory
total quantum number
total recall
total reflection
total self-assurance
total serialism
total situation
total skepticism
total theater
total up
total up to
total utility
total victory
total war
totalitarian government
totalitarian regime
totalitarian threat
totality of associations
totality of being
totality of references
totality of relations	
totally absorbed
totally committed
totally ordered set
totally self-assured
tote bag
tote board
tote box
tote road
tote sack
tote shop
tote to
tote up
tote up to
totem animal
totem badge
totem kin
totem pole	
toti-
totidem verbis	
toties quoties
toto caelo
toto-
totter along
totter on the brink
totter to your fall
tottery in years
totty-headed
touch a chord
touch a nerve
touch a nerve ending
touch a raw nerve
touch a soft spot
touch a sore spot
touch a sympathetic chord
touch a tender spot
touch and go
touch body
touch bottom
touch cerate
touch down
touch elbows with
touch football
touch judge
touch lightly
touch mark
touch method
touch needle
touch of conscience
touch off
touch on
touch on the raw
touch paper
touch reader
touch shoulders with
touch spot
touch system
touch the cap
touch the hat
touch the wind
touch to the quick
touch typewriter
touch typewriting
touch up
touch upon
touch upon in passing
touch upon lightly
touch where it hurts
touch writer
touch writing
touch your heart
touch-
touch-and-go
touch-box
touch-hole
touch-in goal
touch-in-goal
touch-in-goal line
touch-line
touch-me-not
touch-me-not-ish
touch-paper
touch-piece
touch-powder
touch-tackle
touch-type
touch-up
touched in the head
touched in the wind
touching down
tough as leather
tough break
tough cake
tough grind
tough guy
tough it out
tough job
tough lineup to buck
tough luck
tough nut to crack
tough out
tough pitch
tough pitch copper
tough policy
tough proposition
tough shit
tough tenacity of purpose
tough titty
tough-backed
tough-fibered
tough-fisted
tough-handed
tough-lived
tough-looking
tough-metaled
tough-minded
tough-mindedly
tough-mindedness
tough-muscled
tough-shelled
tough-sinewed
tough-skinned
tough-thonged
toujours perdrix
tour billion
tour conductor
tour de force
tour director
tour en l'air
tour guide
tour jete
tour of duty
toura grass
touring car
touring coupe
tourist car
tourist card
tourist center
tourist class
tourist court
tourist home
tourist trap
tourist-crammed
tourist-haunted
tourist-infested
tourist-laden
tourist-ridden
tourist-trodden
tourmaline pink
tourmaline tongs
tours en l'air
tous-les-mois	
tousled hair
tout a fait
tout a l'heure
tout au contraire
tout court
tout de suite
tout ensemble
tout le monde
tow boy
tow car
tow carder
tow carrier
tow cloth
tow hook
tow iron
tow mixer
tow post
tower-capped
tower-crested
tower-crowned
tower-dwelling
tower-encircled
tower-flanked
tower-high
tower-mill
tower-raising
tower-shaped
tower-studded
tower-supported
tower-tearing
towering alps
towering heights
towering passion
towering rage
towing basin
towing bridle
towing lights
towing net
towing path
towing post
towing spar
town adjutant
town ball
town book
town boomer
town bridge
town bushel
town car
town church
town clerk
town clerkship
town council
town councilor
town cress
town crier
town dweller
town economy
town end
town foot
town forest
town gas
town guard
town hall
town head
town house
town jail
town life
town lot
town manager
town meeting
town mouse
town mutual
town officer
town park
town people
town place
town plan
town planner
town planning
town reeve
town row
town sickness
town soviet
town talk
town tallow
town top
town traveler
town wall
town way
town woman
town yard
town-absorbing
town-and-country suit
town-born
town-bound
town-bred
town-clerk
town-cress
town-dotted
town-dwelling
town-end
town-flanked
town-frequenting
town-girdled
town-goer
town-going
town-house
town-imprisoned
town-keeping
town-killed
town-living
town-looking
town-loving
trace hook
trace horse
trace of an idea
trace out
trace over
trace spring
trace the derivation of
trace the origin of
trace to
trace-bearer
trace-galled
trace-high
tracer atom
tracer bullet
tracer element
tracer investigation
trache-
trachelo-
trachelo-occipital
tracheo-
trachio branchia
trachy-
tracing braid
tracing cloth
tracing paper
tracing thread
tracing wheel
track and field
track boat
track bolt
track brake
track chisel
track cleaner
track clip
track down
track drill
track edge
track gauge
track guard
track harness
track indicator
track inspector
track instrument
track jack
track level
track leveler
track lifter
track liner
tractor plane
tractor propeller
tractor trailer
tractor truck
tractor-trailer
trade acceptance
trade agreement
trade allowance
trade association
trade at
trade balance
trade board
trade book
trade center
trade club
trade coin
trade commissioner
trade council
trade cumulus
trade cycle
trade discount
trade dollar
trade ducat
trade edition
trade editor
trade eruption
trade fair
trade fixture
trade gap
trade goods
trade guild
trade hall
trade in
trade journal
trade language
trade magazine
trade name
trade off
trade officer
trade on
trade on margin
trade paper
trade plate
trade practice
trade price
trade rat
trade reference
trade rights
trade road
trade route
trade sale
trade school
trade secret
trade sight unseen
trade test
trade tomahawk
trade union
trade unionism
trade unionist
trade up
trade warranty
trade wind
trade winds
trade with
trade work
trade-bound
trade-destroying
trade-facilitating
trade-fallen
trade-gild
trade-in
trade-laden
trade-last
trade-made
trade-mark
trade-mark infringement
trade-mark name
trade-marker
trade-off
trade-seeking
trade-union
trade-unionism
trade-unionist
trade-wind
trade-wind rig
trademark name
trades board
trades council
trades hall
trades-union
trades-unionism
trades-unionist
trading account
trading estate
trading market
trading post
trading stamp
tradition-bound
tradition-fed
tradition-following
tradition-making
tradition-nourished
tradition-ridden
traditional grammar
traditional logic
traditor battery
traffic beacon
traffic circle
traffic constable
traffic control
traffic control signal
traffic cop
traffic court
traffic density
traffic director
traffic engineering
traffic in
traffic in women
traffic island
traffic jam
traffic law
traffic light
traffic manager
traffic of the stage
traffic officer
traffic pattern
traffic policeman
traffic post
traffic regulator
traffic sheet
traffic shifter
traffic signal
traffic squad
traffic tower
traffic warden
traffic with
traffic-bearing
traffic-choked
traffic-congested
traffic-furrowed
traffic-laden
traffic-mile
traffic-regulating
traffic-thronged
tragedy-proof
tragi-
tragi-comedy
tragi-comic
tragic drama
tragic flaw
tragic irony
tragic muse
tragic-comedy
trail after
trail along
trail angle
trail arms
trail away
trail bar
trail behind
trail bike
trail blazer
trail blazing
trail board
trail boss
trail breaker
trail bridge
trail car
trail cart
trail ferry
trail handspike
trail herd
trail net
trail of
trail plank
trail plate
trail rope
trail sight
trail spade
trail spur
trail-eye
trail-marked
trail-weary
trail-wise
trailer camp
trailer car
trailer court
trailer park
trailer truck
trailing arbutus
trailing edge
trailing evergreen
trailing fuchsia
trailing myrtle
trailing phlox
trailing vortex drag
trailing-point
trailing-point switch
train butcher
train caller
train conductor
train crew
train dispatcher
train flagman
train foreman
train guard
train hand
train indicator
train inspector
train jumper
train legs
train line
train mileage
train of thought
train off
train oil
train pipe
train recorder
train reporter
train robber
train room
train rope
train schedule
train service
train shed
train sheet
train sickness
train signal
train spotter
train staff
train starter
train stop
train tackle
train ticket
train trip
train upon
train wrecker
train-dispatching
train-giddy
train-lighting
train-mile
trained nurse
trainer-bomber
trainer-fighter
training aid
training bank
training college
training day
training group
training level
training missile
training mission
training pants
training rocket
training school
training ship
training table
training tackle
training wall
trait of character
trait-complex
trajectory missile
tram crane
tram greaser
tram guard
tram load
tram plate
tram rail
tram rod
tram shed
tram-borne
tram-car
tram-line
tram-road
tram-traveling
trammel net
trammel wheel
trammel-net
tramp pick
tramp ship
tramp steamer
trample down
trample in the dust
trample on
trample out
trample under foot
trample underfoot
trample upon
trampling down
trance speaking
trance state
trance writing
tranche de bouf
tranche de lard
tranche de vie
tranquil-acting
tranquil-ization
tranquil-looking
tranquil-minded
trans-
trans-Adriatic
trans-African
trans-Algerian
trans-Alleghenian
trans-American
trans-Andean
trans-Andine
trans-Antarctic
trans-Apennine
trans-Arabian
trans-Asiatic
trans-Australian
trans-Austrian
trans-Balkan
trans-Baltic
trans-Canadian
trans-Carpathian
trans-Caspian
trans-Congo
trans-Cordilleran
trans-Danubian
trans-Egyptian
trans-Euphrates
trans-Germanic
trans-Grampian
trans-Himalayan
trans-Hispanic
trans-Iberian
trans-Indian
trans-Indus
trans-Iranian
trans-Iraq
trans-Jovian
trans-Liberian
trans-Libyan
trans-Manchurian
trans-Martian
trans-Mediterranean
trans-Mississippi
trans-Mississippian
trans-Mongolian
trans-Neptunian
trans-Niger
trans-Panamanian
trans-Paraguayan
trans-Persian
trans-Pyrenean
trans-Rhenish
trans-Sahara
trans-Saharan
trans-Saturnian
trans-Severn
trans-Siberian
trans-Stygian
trans-Tiber
trans-Tibetian
trans-Ural
trans-Uralian
trans-Volga
trans-border
trans-continental
trans-etherian
trans-frontier
trans-oceanic
trans-pacific
trans-shape
trans-shift
trans-sonic
trans-subjective
transact business
transact business with
transactional analysis
transcendent essence
transcendent idea
transcendent universal
transcendent wonder
transcendental aesthetic
transcendental analytic
transcendental dialectic
transcendental idealism
transcendental logic
transcendental meditation
transcendental number
transcendental object
transcendental philosophy
transcription turntable
transfer RNA
transfer agent
transfer book
transfer box
transfer caliper
transfer case
transfer company
transfer conductance
transfer day
transfer fee
transfer ink
transfer list
transfer of property
transfer of right
transfer of training
transfer paper
transfer payment
transfer picture
transfer printing
transfer property
transfer resistance
transfer right
transfer stamp
transfer table
transferable vote
transference neurosis
transference number
transferred meaning
transferred sense
transferring machine
transfinite cardinal
transfinite number
transfinite ordinal
transformation myth
transformation range
transformation rule
transformation scene
transformation temperature
transformational grammar
transformational linguistics
transformational rule
transformer oil
transfuse the sense of
transfusion cell
transfusion tissue
transient boarder
transmission clutch
transmission density
transmission dynamometer
transmission efficiency
transmission electron microscope
transmission factor
transmission gear
transmission grating
transmission level
transmission line
transmission lock
transmission loss
transmission of light
transmission pulley
transmission pump
transmission rope
transmission shaft
transmission sheaf
transmission stop system
transmission theory
transmission tower
transmission unit
transmission wheel
transmit warrant
transmit-receive unit
transmit-receiver
transmitter part
transmitter parts
transmitter receiver
transmitter signal
transmitter truck
transmitting antenna
transmitting set
transmitting station
transoceanic rocket
transom adjuster
transom bar
transom butt
transom catch
transom center
transom chain
transom eye
transom frame
transom knee
transom lift
transom light
transom operator
transom plate
travel agent
travel book
travel bureau
travel by air
travel by airline
travel by water
travel in a groove
travel in a rut
travel in space
travel literature
travel over
travel ration
travel shot
travel sickness
travel the open road
travel through
travel time
travel with
travel-bent
travel-broken
travel-changed
travel-disordered
travel-enjoying
travel-famous
travel-formed
travel-gifted
travel-infected
travel-jaded
travel-loving
travel-mad
travel-met
travel-opposing
travel-parted
travel-planning
travel-sated
travel-sick
travel-soiled
travel-spent
travel-stained
travel-tainted
travel-tattered
travel-tired
travel-toiled
travel-weary
travel-worn
traveler crane
traveler iron
traveler's check
traveler's-joy
traveler's-tree
traveling agent
traveling bag
traveling block
traveling carriage
traveling case
traveling clock
traveling crab
traveling derrick
traveling elevator
traveling examiner
traveling fellowship
traveling grate
traveling hoist
traveling inspector
traveling man
traveling salesman
traveling tinker
traveling trunk
traveling woman
traveling-head shaper
traveling-wave tube
traveller's cheque
traveller's joy
travelling salesman
travelling wave
traverse a yard
traverse board
traverse circle
traverse drill
traverse feed
traverse flute
traverse jury
traverse rail
traverse rod
traverse sailing
traverse shaper
traverse survey
traverse table
traverse track
traverse wind
traverse-table
traversing bridge
traversing circle
traversing crane
traversing gear
traversing jack
traversing mandrel
travois road
trawl board
trawl line
trawl net
trawl-net
trawl agriculture
trawl boy
trawl cloth
trawl conveyor
trawl elevator
trawl emptier
trawl filler
trawl frame
trawl handle
trawl maker
trawl table
trawl-shaped
trawl-top table
treacle mold
treacle molding
treacle mustard
treacle sleep
treacle water
treacle wormseed
tread close upon
tread down
tread on
tread on air
tread on eggs
tread on the heels of
tread on your heels
tread on your toes
tread the boards
tread under foot
tread underfoot
tread upon
tread upon eggs
tread water
tread-softly
tread-wheel	treading down
treading mill	treading water
treads and risers
treason felony
treason-breeding
treason-canting
treason-hatching
treason-haunted
treason-sowing
treasure box
treasure chamber
treasure chest
treasure city
treasure house
treasure hunt
treasure hunter
treasure hunting
treasure quest
treasure room
treasure seeker
treasure ship
treasure trove
treasure up
treasure up in the heart
treasure up in the memory
treasure-baited
treasure-bearing
treasure-filled
treasure-house
treasure-houses
treasure-laden
treasure-seeking
treasure-trove
treasurer general
treasury agent
treasury bench
treasury bill
treasury bond
treasury certificate
treasury check
treasury letter
treasury note
treasury of information
treasury of merits
treasury of the Church
treasury of words
treasury stock
treasury warrant	
treat as routine
treat for sore eyes
treat gently
treat lightly
treat like dirt under your feet
treat of
treat to
 treat unequally
 treat well
 treat with
 treat with contempt
 treat with disrespect
 treat with indignity
 treat with reserve
 treatment room
 treaty maker
 treaty making
 treaty of peace
 treaty port
 treaty reinsurance
 treaty-bound
 treaty-breaking
 treaty-favoring
 treaty-sealed
 treaty-secured
 treble best
 treble block
 treble bob
 treble chance
 treble clef
 treble gear
 treble purchase
 treble staff
 treble viol
 treble-dated
 treble-gereed
 treble-sinewed
 tree agate
 tree aloe
 tree azalea
 tree bear
 tree belt
 tree boa
 tree bracket
 tree cactus
 tree calf
 tree cat
 tree celandine
 tree class
 tree clover
 tree cobra
 tree compass
 tree cony
 tree cotton
tree crab
tree creeper
tree cricket
tree crow
tree cult
tree cypress
tree dassie
tree dove
tree duck
tree farm
tree farmer
tree farming
tree feller
tree fender
tree fern
tree frog
tree fruit
tree fuchsia
tree germander
tree goldenrod
tree goose
tree guard
tree heath
tree holder
tree hoopoe
tree hopper
tree house
tree houseleek
tree huckleberry
tree hyrax
tree insulator
tree ipomoea
tree kangaroo
tree lark
tree lawn
tree lily
tree line
tree looker
tree lotus
tree lucern
tree lungwort
tree lupine
tree mallow
tree marking
tree marten
tree martin
tree medic
tree mildew
tree milk
tree molasses
tree moss
tree mouse
tree myrtle
tree nymph
tree of Jesse
tree of heaven
tree of knowledge
tree of life
tree of sadness
tree onion
tree orchis
tree partridge
tree peony
tree pie
tree pigeon
tree pipit
tree planter
tree planting
tree poke
tree poppy
tree porcupine
tree primrose
tree protector
tree pruner
tree root rot
tree rune
tree runner
tree scribe
tree shrew
tree snake
tree sorrel
tree sparrow
tree spirit
tree squirrel
tree steppe
tree stool
tree sugar
tree surgeon
tree surgery
tree swallow
tree swift
tree tag
tree tiger
tree toad
tree tobacco
tree tomato
tree-shaped
tree-skirted
tree-sparrow
tree-spraying
tree-surgeon
tree-toad
tree-top	
trelfled cross
trefoil arch
trefoil knot
trefoil-shaped
trek ox
trek wagon
trellis-bordered
trellis-covered
trellis-framed
trellis-shaded
trellis-sheltered
trellis-work
trellis-woven
tremble in the balance
tremble in your boots
tremble in your shoes
tremble like an aspen leaf
tremble on the verge
tremble to its fall
tremble to your fall
trembleuse cup
trembling in the balance
trembling poplar
trembling prairie	
tremor disk
tremor of excitement	
trench albuminuria
trench artillery
trench back
trench bomb
trench cart
trench cavalier
trench coat
trench digger
trench disease
trench fever
trench foot
trench gun
trench knife
trench mortar
trench mouth
trench nephritis
trench plow
trench sickness
trench silo
trench warfare
trench-plough
trencher attendant
trencher cap
trencher companion
trencher critic
trencher friend
trencher knight
trencher philosopher
trencher plate
trencher poetry
trencher rascal
trencher slave
trencher time
trencher-cap
trencher-fed
trencher-man
trenching plane
trenching spade
trend downward
trend of the times
trend upwards
trend-setter
trente et quarante
trente-et-quarante
tres bien
tres bon
tres vif
tres-tine
trespass board
trespass offering
tress-braiding
tress-encircled
tress-lifting
tress-plaiting
tress-shorn
tress-topped	
trestle and table
trestle bed
trestle bent
trestle board
trestle bridge
trestle legs
trestle post
trestle table
trestle-tree
trey-ace	
trez-tine
tri-
tri-city
tri-ester
tri-iodide
tri-mide
tri-pack
tri-personal
tri-ply
tri-tunnel
 verifica juncta in uno
triakis-
trial and error
trial at the bar
trial balance
trial balloon
trial brief
trial by battle
trial by jury
trial case
trial court
trial docket
trial engagement
trial examiner
trial frame
trial glasses
trial heat
trial horse
trial impression
trial judge advocate
trial jury
trial lawyer
trial lenses
trial marriage
trial order
trial package
trial piece
trial print
trial proof
trial run
trial sample
trial square
trial trip
trial-and-error
trials and tribulations
triammonium phosphate
triangle inequality
triangle of forces
triangle spider
triangle winding
triangle-leaved
triangle-shaped
triangular bandage
triangular matrix
triangular-shaped
triangulation stations
triangulato-ovate
triaryl methane dye
triatic stay
triaxial cable
triaxial speaker
tribasic sodium phosphate
tribo-
tribrom-
tribromoethyl alcohol
tribute money
tribute pitch
tric-trac
trice up
triceps surae
trich-
trichlor-
trichloroacetic acid
trichloroacetic acid aldehyde
trichloroacetic acid aldehyde
trichloromethyl chloroformate
trichlorophenoxyacetic acid
trichlorophenoxyacetic acid
tricho-
trick knee
trick of behavior
trick of eyesight
trick off
trick or treat
trick out
trick rider
trick score
trick up
trick valve
trick wheel
trick work
trick-o-the-loop
trick-or-treat
triggering pulse
triggering signals
trigonal trisoctahedron
trigono-
trigonometric equation
trigonometric function
trihydric alcohol
trilateral symmetry
trilby hat
trillium family
trim angle
trim by the head
trim by the stern
trim controls
trim rail
trim sail
trim ship
trim size
trim tab
trim tabs
trim to
trim up
trim your sails to the breeze
trim-ankled
trim-bearded
trim-bodiced
trim-bodied
trim-cut
trim-dressed
trim-hedged
trim-kept
trim-looking
trim-suited
trim-swept
trim-up
trim-waisted
trimetric projection
trimmer arch
trimmer beam
trimmer condenser
trimmer joist
trimmer signal
trimming capacitor
trimming hatch
trimming hole
trimming joist
trimming machine
trimming press
tripe-selling  
triphenylmethane color  
triphenylmethane dye  
triphosphoric acid  
triple bond  
triple counterpoint  
triple crown  
triple dresser  
triple fugue  
triple integral  
triple jump  
triple measure  
triple play  
triple plume  
triple point  
triple rhyme  
triple rhythm  
triple scalar product  
triple superphosphate  
triple tangent  
triple tangent plane  
triple threat  
triple time  
triple vaccine  
triple-acting  
triple-action  
triple-aisled  
triple-apsidal  
triple-arched  
triple-awned  
triple-barbed  
triple-barred  
triple-bearded  
triple-bodied  
triple-bolted  
triple-branched  
triple-check  
triple-chorded  
triple-colored  
triple-crested  
triple-crowned  
triple-cylinder  
triple-deck  
triple-decked  
triple-decker  
triple-dyed  
triple-edged  
triple-entry
triple-expansion
triple-expansion engine
triple-formed
triple-gemmed
triple-hatted
triple-headed
triple-header
triple-hearth
triple-ingrain
triple-line
triple-lived
triple-lock
triple-nerved
triple-piled
triple-pole
triple-rayed
triple-ribbed
triple-rivet
triple-roofed
triple-space
triple-stranded
triple-tailed
triple-terraced
triple-thread
triple-throated
triple-throw
triple-tiered
triple-tongue
triple-tongued
triple-tonguing
triple-toothed
triple-towered
triple-turned
triple-turreted
triple-veined
triple-wick
triplet lily
triplicate-pinnate
triplicate-ternate
triplo-
tripod camera
tripod of the Pythia
tripod puller
tripod table
tripped out
tripped up
tripping coil
tripping line
trolley lace
trolley line
trolley locomotive
trolley maker
trolley pole
trolley rail
trolley retriever
trolley road
trolley shoe
trolley spring
trolley track
trolley tracking
trolley wagon
trolley wheel
trolley wire	
tromba marina
trombe marine
trombone coil	
trompe l'oeil
tron weight
trone weight
troop carrier
troop duck
troop leader
troop school
troop train
troop transport
troop-lined
troop-thronged
troops of the line
troostite-martensite
troosto-martensite
trop-
tropacolin D
trope of comparison
tropeolin D
troph-
trophic level
tropho-
trophy cress
trophy money
trophy room
trophy tax		
tropic bird
tropic of
tropic of Cancer
tropic of cancer		
tropical aquarium
tropical bubo
tropical cycl
tropical cyclone
tropical fish
tropical heat
tropical medicine
tropical storm
tropical suit
tropical year
tropo-
trot along
trot out
troth ring
troth-contracted
troth-keeping
troth-plight
troth-telling	
trotter cases
trotting race
trou madame
trou-de-coup
trou-de-loup
troubadour fiddle
troubadour poem
trouble maker
trouble man
trouble shooter
trouble shooting
trouble spot
trouble you for
trouble your head about
trouble yourself
trouble-bringing
trouble-free
trouble-giving
trouble-haunted
trouble-house
trouble-mirth
trouble-saving
trouble-shooter
trouble-tossed
trouble-worn
troubled mind
troubled thought
troubled waters
trouth battery
trough conveyor
trough gutter
trough iron
trough keel
trough line
trough roof
trough room
trough shape
trough-shaped	
trouser press
trouser presser
trouser suit
trouser-press
trouser bass
trouth brook	
trouth fishing
trouth fly
trouth lily
trouth perch
trouth shad
trouth stream
trouth-colored
trouth-famous	
trouth-haunted
trouth-perch
trowel bayonet
trowel-shaped	
troy ounce
troy pound
troy weight
truant officer
truant school
truce flag
truce-hating
truce-seeking	
tuck box
tuck car
tuck crop
tuck driver
tuck farm
tuck farmer
tuck farming
tuck garden
tuck gardener
tuck gardening
tuck horse
tuck house
tuck jobber
tuck shot
tuck system
truck tractor
truck trailer
trucking house
trucking shot
truckle bed
truckle to
truckle-bed
truckman's knot
trudgen crawl
trudgen stroke
true Christian
true air speed
true anomaly
true as gospel
true bearing
true being
true believer
true bill
true blue
true bug
true course
true faith
true fly
true fresco
true grit
true heading
true horizon
true inwardness
true jade
true laurel
true level
true lover's knot
true meaning
true north
true rib
true skin
true time
true to form
true to life
true to nature
true to reality
true to the facts
true to the letter
true to the spirit
true to type
true to your colors
true up
true vocal cord
true vocal cords
ture-aimed
ture-based
ture-begotten
ture-believing
ture-blooded
ture-blue
ture-born
ture-breasted
ture-bred
ture-dealing
ture-derived
ture-devoted
ture-disposing
ture-divining
ture-eyed
ture-false
ture-false test
ture-felt
ture-grained
ture-hearted
ture-heartness
ture-heroic
ture-life
ture-love
ture-love knot
ture-lover's knot
ture-made
ture-mannered
ture-meaning
ture-meant
ture-noble
ture-paced
ture-ringing
ture-run
ture-seeming
ture-souled
ture-speaking
ture-spelling
ture-spirited
ture-spoken
ture-stamped
ture-strung
ture-sublime
ture-sweet
ture-thought
ture-to-lifeness
ture-toned
true-tongued
truelove knot
tromp and solemn heraldry
trump card
trump of doom
trump signal
trump up
trump up a charge
trump-poor
trumped-up
trumped-up charge
trumped-up story
trumpet animalcule
trumpet arch
trumpet ash
trumpet blare
trumpet blast
trumpet call
trumpet conch
trumpet creeper
trumpet daffodil
trumpet fish
trumpet flower
trumpet fly
trumpet forth
trumpet honey suckle
trumpet honeysuckle
trumpet hypha
trumpet lily
trumpet major
trumpet marine
trumpet milkweed
trumpet narcissus
trumpet of doom
trumpet plant
trumpet reed
trumpet seaweed
trumpet shell
trumpet sound
trumpet tree
trumpet turning
trumpet vine
trumpet-blowing
trumpet-creeper family
trumpet-hung
trumpet-leaf
trumpet-leaves
trumpet-loud
trumpet-shaped
trumpet-toned
trumpet-tongued
trumpet-tree
trumpet-voiced
trumpeter fish
trumpeter muscle
trumpeter perch
trumpeter swan
trumpeter whiting
truncated pyramid
trundle bed
trundle-bed
trundle-tail
trunk breeches
trunk buoy
trunk cabin
trunk call
trunk curl
trunk deck
trunk dial
trunk engine
trunk hatch
trunk hatchway
trunk hose
trunk line
trunk piston
trunk road
trunk room
trunk scald
trunk steamer
trunk turtle
trunk whale
trunk-breeches
trunk-decked vessel
trunk-fish
trunk-hose
trunk-maker
trunnion band
trunnion carriage
trunnion chain
trunnion cradle
trunnion hoop
trunnion jig
trunnion plate
truss beam
truss bow
truss bridge
truth-writ
try a case
try again
try and
try and make me
try and try
try and try again
try anything once
try cock
try conclusions
try conclusions with
try for
try for a miracle
try for point
try gun
try hard
try hole
try in all its phases
try it
try it for size
try it on
try on
try on for size
try one
try one another
try out
try out for
try plane
try square
try the chance
try the patience
try to
try to be in two places at once
try to bribe
try to catch the wind in a net
try to fetch water in a sieve
try to find
try to gather grapes from thorns
try to get blood from a turnip
try to get figs from thistles
try to make bricks from straw
try to make cheese of chalk
try to reach
try to recall
try to weave a rope of sand
try up
try you out
try your best
try your damndest
try your darndest
try your fortune
try your hand
try your luck
try your strength
try your utmost
try-
try-on
try-pot
tryer-out
trying for
trying plane
trypaflavine neut
trypan blue
trypan red
trysail gaff
trysail mast
trysting day
trysting place
tsetchem leshalom
tsetse fly
tsetse fly disease
tsutsugamushi disease
tsutsugamushi mite
tu quoque
tu-chung
tu-chung bark
tu-whit
tu-whit tu-whoo
tu-whoo
tuan muda
tub boat
tub butter
tub chair
tub desk
tub drubber
tub front
tub maker
tub of lard
tub preacher
tub preaching
tub thumper
tub thumping
tub wheel
tub-brained
tub-coopering
tub-fast
tub-keeping
tub-preach
tub-preacher
tub-shaped
tub-size
tub-sized
tub-t
tub-thump
tub-thumper
tubal pregnancy
tube brazer
tube casts
tube coral
tube counter
tube culture
tube door
tube drawer
tube foot
tube generator
tube mill
tube of electric force
tube of force
tube plate
tube railway
tube saw
tube set
tube sheet
tube shutter
tube spinner
tube transmitter
tube weaver
tube well
tube worm
tube wrench
tube-bearing
tube-curing
tube-drawing
tube-drilling
tube-eye
tube-eyed
tube-eyes
tube-fed
tube-filling
tube-nosed
tube-rolling
tube-scraping
tube-shaped
tube-straightening
tuck-pointer
 tuck-shop
 tuckaway table
 tucked up
 tucker bag
 tucker out
 tucker-bag
 tucker-box
 tucker-in
 tuckered out
 tucky lily
 tuco tuco
 tuco-tuco
 tuco-tucos
 tucu tucu
 tudor arch
 tuft tree
 tuft-hunter
 tufted duck
 tufted hair grass
 tufted titmouse
 tufted-eared
 tufted-necked
 tug at the heart
 tug at the heartstrings
 tug chain
 tug iron
 tug of war
 tug the heartstrings
 tug-of-war
 tug-of-warring
 tula metal
 tule chicken
 tule goose
 tule hen
 tule mint
 tule perch
 tule potato
 tule root
 tule wren
 tulema arrow-root
 tulip bed
 tulip blight
 tulip ear
 tulip fancier
 tulip fire
 tulip grower
 tulip mold
tulip oak
tulip orchid
tulip poplar
tulip poppy
tulip root
tulip shell
tulip tree
tulip-eared
tulip-fancying
tulip-grass
tulip-growing
tulip-shaped
tulip-tree
tulip-wood
tum out
tum-ti-tum
tum-tum
tumble car
tumble cart
tumble drier
tumble for
tumble grass
tumble home
tumble mustard
tumble on
tumble through the mind
tumble to
tumble-
tumble-down
tumbledown shack	
tumbler bearing
tumbler cart
tumbler cup
tumbler drier
tumbler gear
tumbler gearing
tumbler pigeon
tumbler switch
tumbler-shaped	
tumbling barrel
tumbling bay
tumbling box
tumbling rod
tumbling shaft
tumbling verse
tumbling-
tumbu fly
tump-line
tumulus scab
tun of flesh
tun pail
tun shell
tun-bellied
tun-dish
tuna cheese
tuna clipper
tuna fish
tuna fish salad
tuna oil
tuna salad sandwich	
tune down
tune in
tune off
tune out
tune up
tune your lyre
tune-skilled
tune-up
tuned antenna
tuneful Nine
tuner-inner	
tung oil
tung tree
tung-oil
tung-oil tree
tungst-
tungsten lamp
tungsten ocher
tungsten steel
tungsten trioxide
tungstic acid
tunic flower
tunica palmata	
tuning bar
tuning capacitor
tuning coil
tuning condenser
tuning cone
tuning fork
tuning hammer
tuning hole
tuning horn
tuning key
tuning lever
tuning peg
tuning pin
tuning pipe
tuning slide
tuning wrench
tunking fit
tunna snjors
tunnel anemia
tunnel diode
tunnel disease
tunnel effect
tunnel head
tunnel kiln
tunnel miner
tunnel net
tunnel of love
tunnel of time
tunnel pit
tunnel right
tunnel shaft
tunnel sickness
tunnel stern
tunnel vault
tunnel vision
tunnel weaver
tunnel worm
tunnel-boring
tunnel-shaped
tunny oil
tuno gum
tup lamb
tup-headed
tupelo gum
tupi-guarani
tupi-guaranian
tuppenny-hapenny
turban buttercup
turban lily
turban sheep
turban squash
turban stone
turban toque
turban-crested
turban-crowned
turban-shaped
turbary hog
turbidity current
turbine centrifugal pump
turbine interrupter
turbine nozzle
turbine steamer
turbine ventilator
turbine-driven
turbine-engined
turbine-propelled	
turbo-
turbo-electric
turbo-prop
turbo-propeller engine
turbo-propeller plane
turbo-ram-jet engine
turbo-ramjet engine	
turbojet engine
turbojet propulsion
turboprop engine
turboprop-jet
turboprop-jet engine
turboram-jet
turboramjet engine	
turbulent flow	
turco-
turf accountant
turf ant
turf cake
turf hog
turf moss
turf out
turf webworm
turf-boring
turf-bound
turf-built
turf-clad
turf-covered
turf-cutting
turf-digging
turf-forming
turf-grown
turf-laid
turf-roofed
turf-spread
turf-walled
turfing daisy
turgor pressure
turk's cap
turk's head
turkey beard
turkey berry
turkey bird
turn a deaf ear to
turn a hair
turn a hand
turn a penny
turn a pirouette
turn a pot
turn a somersault
turn a willing ear
turn about
turn acid
turn against
turn an honest penny
turn and turn about
turn around
turn around your little finger
turn aside
turn aside from
turn aside provocation
turn ass over elbows
turn attention to
turn away
turn away from
turn awry
turn back
turn back the clock
turn bench
turn blue in the face
turn bolt
turn bottom side up
turn bridge
turn button
turn cloak
turn color
turn down
turn file
turn for
turn from
turn gray
turn green
turn head over heels
turn in
turn in an alarm
turn in your badge
turn in your uniform
turn indicator
turn informer
turn inside out
turn into
turn into money
turn into the opposite
turn inward
turn it off
turn king's evidence
turn loose
turn meter
turn of events
turn of expression
turn of mind
turn of phrase
turn of the cards
turn of the screw
turn of the table
turn of the tide
turn of the wheel
turn of thought
turn of work
turn off
turn off the juice
turn off the light
turn on
turn on a dime
turn on her heel
turn on the juice
turn on the light
turn on the offensive
turn on the tap
turn on to
turn on your heel
turn one's back on
turn one's back upon
turn out
turn out bag and baggage
turn out doors
turn out of doors
turn out of house and home
turn out that way
turn out to be
turn out well
turn over
turn over a new leaf
turn over in the mind
turn over the leaves
turn over your knees
turn pale
turn queen's
turn queen's evidence
turn red
turn round
turn sign
turn sour
turn state's evidence
turn stitch
turn swords into plowshares
turn tail
turn the back upon
turn the balance
turn the corner
turn the edge of
turn the eyes
turn the mind to
turn the other cheek
turn the point of
turn the scale
turn the scales
turn the shoulder
turn the stomach
turn the tables
turn the tables on
turn the tables upon
turn the thoughts to
turn the tide
turn the trick
turn thumbs down on
turn to
turn to a lake
turn to a sea
turn to account
turn to good account
turn to naught
turn to nothing
turn to profit
turn to stone
turn to the right-about
turn to the side
turn to use
turn to your advantage
turn topsy-turvy
turn traitor
turn turtle
turn under
turn up
turn up missing
turn up one's face
turn up trumps
turn up your nose at
turn up your toes
turn upon
turn upon your heel
turn upside down
turn west
turn white
turn yellow
turn you away
turn you on
turn your attention from
turn your back on
turn your back upon
turn your coat
turn your face to the wall
turn your hand to
turn your head
turn your stomach
turn your tail upon
turn your tracks to
turn-
turn-and-bank indicato
turn-and-bank indicator
turn-and-slip indicator
turn-buckle
turn-crowned
turn-down
turn-furrow
turn-hall
turn-in
turn-key
turn-key job
turn-out
turn-over
turn-penny
turn-round
turn-server
turn-serving
turn-sick
turn-sickness
turn-table
turn-to
turn-tree
turn-under
turn-up
turned around
turned comma
turned on
turned period
turned-back
turned-down
turned-in
turned-off
turned-on
turned-over
turned-up
turner hall
turner harp
turner hood
turner-off
turning arbor
turning around
turning away
turning back
turning backwards
turning basin
turning chisel
turning circle
turning down
turning engine
turning front to back
turning gouge
turning head over heels
turning inside out
turning into
turning inward
turning movement
turning on
turning out
turning over
turning over in the mind
turning pendant
turning piece
turning plow
turning point
turning rest
turning saw
turning side to side
turning spur
turning square
turning traitor
turning upside down
turning upside-down
turning value
turnip aphid
turnip bean
turnip cabbage
turnip flea
turnip flea beetle
turnip fly
turnip foot
turnip grass
turnip jack
turnip leaf miner
turnip louse
turnip maggot
turnip nigger
turnip parsnip
turnip radish
turnip sawfly
turnip shell
turnip tops
turnip-bearing
turnip-eating
turnip-fed
turnip-growing
turnip-headed
turnip-leaved
turnip-pate
turnip-pointed
turnip-rooted
turnip-rooted celery
turnip-shaped
turnip-sick
turnip-stemmed
turnip-tailed
turnip-yielding
turnover door
turnover hinge
turnover tax
turnpike bond
turnpike geranium
turnpike man
turnpike road
turntable ladder
turnup bed
turnup card
turpentine beetle
turpentine camphor
turpentine gum
turpentine moth
turpentine oil
turpentine orchard
turpentine pine
turpentine plant
turpentine shrub
turpentine substitute
turpentine sunflower
turpentine tree
turpeth mineral
turquoise blue
turquoise green
turquoise-blue
turquoise-colored
turquoise-encrusted
turquoise-hued
turquoise-studded
turquoise-tinted
turret angle-rack tool
turret captain
turret clock
turret crew
turret cutter
turret deck
turret drier
turret drill
turret gun
turret lathe
turret ship
turret slide tool
turret spider
turret steamer
turret taper tool
turret-deck vessel
turret-decked vessel
turret-shaped
turret-topped
turret-turning
turtle cowrie
turtle crawl
turtle deck
turtle grass
turtle green
turtle heart
turtle peg
turtle pegger
turtle pegging
turtle plate
turtle shell
turtle soup
turtle stone
turtle-back
turtle-back shooting
turtle-billing
turtle-dove
turtle-footed
turtle-haunted
turtle-mouthed
turtle-neck
turtle-winged
turtleback scale
turtleneck sweater	
tusk shell
tusk tenon
tussah silk
tussock grass
tussock moth
tussock sedge
tussock-grass
tut money
tut-mouthed
tut-tut
tut-tutted
tut-tutting	
tutelar genius
tutelar god
tutelar spirit
tutelary genius
tutelary god
tutelary spirit
tutor-sick
tutorial system
tutti passage
tutti-frutti
tuxedo coat
tuxedo jacket	
tuyere arch
tuyere box
tuyere notch	
tw-
twae-three
twain cloud
twaite shad
twanging nerves
twattle-basket	
tweak the devil's nose
tweak the nose
tweed-clad
tweed-covered
tweed-suited
tweedle-
tween-brain
tween-deck
tween-watch
tweet-tweet	
tweeter-woofer	
tweezer-case
twelthynede man

twelfth day
twelfth man
twelfth night
twelfth-cake
twelfth-day
twelfth-night
twelfth-second
twelve dozen
twelve men in a box
twelve o'clock
twelve-acre
twelve-armed
twelve-banded
twelve-bore
twelve-button
twelve-candle
twelve-carat
twelve-cut
twelve-day
twelve-dram
twelve-feet
twelve-foot
twelve-footed
twelve-fruited
twelve-gated
twelve-gauge
twelve-gemmed
twelve-handed
twelve-hole
twelve-horsepower
twelve-hour
twelve-inch
twelve-labor
twelve-legged
twelve-line
twelve-mile
twelve-mile limit
twelve-minute
twelve-monthly
twelve-note row
twelve-o’clock
twelve-oared
twelve-ounce
twelve-part
twelve-pint
twelve-point
twelve-point sphere
twelve-pound
twelve-pounder
twelve-rayed
twelve-seated
twelve-shilling
twelve-sided
twelve-spoke
twelve-spotted
twelve-starred
twelve-stone
twelve-stranded
twelve-thread
twelve-tone
twelve-tone row
twelve-tone technique
twelve-towered
twelve-verse
twelve-wired
twelve-word
twelve-year
twelve-year-old
twelvethynde man
twentieth man
twentieth-century
twenty questions
twenty-acre
twenty-carat
twenty-centimeter
twenty-cubit
twenty-day
twenty-dollar
twenty-dollar bill
twenty-dollar gold piece
twenty-eight
twenty-eighth
twenty-eighth
twenty-fifth
twenty-first
twenty-five
twenty-five cents
twenty-five percent
twice-associated
twice-assured
twice-attained
twice-attempted
twice-attested
twice-audited
twice-authorized
twice-avoided
twice-baked
twice-balanced
twice-bankrupt
twice-baptized
twice-barred
twice-bearing
twice-beaten
twice-begged
twice-begun
twice-beheld
twice-beloved
twice-bent
twice-bereaved
twice-bereft
twice-bested
twice-bestowed
twice-betrayed
twice-bid
twice-bit
twice-blamed
twice-blessed
twice-blooming
twice-blowing
twice-boiled
twice-born
twice-borrowed
twice-bought
twice-branded
twice-broken
twice-brought
twice-buried
twice-called
twice-canceled
twice-canceled
twice-canvassed
twice-captured
twice-carried
twice-caught
twice-censured
twice-challenged
twice-changed
twice-charged
twice-cheated
twice-chosen
twice-cited
twice-claimed
twice-collected
twice-commenced
twice-commended
twice-committed
twice-competing
twice-completed
twice-compromised
twice-concealed
twice-conceded
twice-condemned
twice-conferred
twice-confessed
twice-confirmed
twice-conquered
twice-consenting
twice-considered
twice-consulted
twice-contested
twice-continued
twice-converted
twice-convicted
twice-copyrighted
twice-corrected
twice-counted
twice-cowed
twice-created
twice-crowned
twice-cured
twice-damaged
twice-dared
twice-darned
twice-dead
twice-dealt
twice-debated
twice-deceived
twice-declined
twice-decorated
twice-decreed
twice-deducted
twice-defaulting
twice-defeated
twice-deferred
twice-defied
twice-delayed
twice-delivered
twice-demanded
twice-denied
twice-depleted
twice-deserted
twice-deserved
twice-detained
twice-diminished
twice-dipped
twice-directed
twice-disabled
twice-disappointed
twice-discarded
twice-discharged
twice-discontinued
twice-discounted
twice-discovered
twice-disgraced
twice-dismissed
twice-dispatched
twice-divided
twice-divorced
twice-doubled
twice-doubted
twice-drafted
twice-drugged
twice-dyed
twice-earned
twice-effected
twice-elected
twice-enacted
twice-encountered
twice-endorsed
twice-engaged
twice-enlarged
twice-ennobled
twice-essayed
twice-evaded
twice-examined
twice-excelled
twice-excused
twice-exempted
twice-exiled
twice-exposed
twice-expressed
twice-extended
twice-fallen
twice-false
twice-favored
twice-felt
twice-filmed
twice-fined
twice-folded
twice-fooled
twice-forgiven
twice-forgotten
twice-forsaken
twice-fought
twice-foul
twice-fulfilled
twice-gained
twice-garbed
twice-given
twice-granted
twice-grieved
twice-guilty
twice-handicapped
twice-hazarded
twice-healed
twice-heard
twice-helped
twice-hidden
twice-hinted
twice-hit
twice-honored
twice-humbled
twice-hurt
twice-identified
twice-ignored
twice-imposed
twice-improved
twice-incensed
twice-increased
twice-indulged
twice-infected
twice-injured
twice-insulted
twice-insured
twice-invented
twice-invited
twice-issued
twice-jailed
twice-judged
twice-kidnaped
twice-knighted
twice-laid
twice-lamented
twice-leagued
twice-learned
twice-left
twice-lengthened
twice-levied
twice-liable
twice-listed
twice-loaned
twice-lost
twice-mad
twice-maintained
twice-marketed
twice-married
twice-mastered
twice-mated
twice-measured
twice-menaced
twice-mended
twice-mentioned
twice-merited
twice-met
twice-missed
twice-mistaken
twice-modified
twice-mortal
twice-mourned
twice-named
twice-necessitated
twice-needed
twice-negligent
twice-negotiated
twice-nominated
twice-noted
twice-notified
twice-numbered
twice-objected
twice-obligated
twice-occasioned
twice-occupied
twice-offended
twice-offered
twice-offset
twice-omitted
twice-opened
twice-opposed
twice-ordered
twice-originated
twice-orphaned
twice-overdue
twice-overtaken
twice-overthrown
twice-owned
twice-paid
twice-painted
twice-pardoned
twice-parted
twice-partitioned
twice-patched
twice-pensioned
twice-permitted
twice-persuaded
twice-perused
twice-petitioned
twice-pinnate
twice-placed
twice-planned
twice-pleased
twice-pledged
twice-poisoned
twice-pondered
twice-posed
twice-postponed
twice-praised
twice-predicted
twice-preferred
twice-prepaid
twice-prepared
twice-prescribed
twice-presented
twice-preserved
twice-pretended
twice-prevailing
twice-prevented
twice-printed
twice-procured
twice-professed
twice-prohibited
twice-promised
twice-promoted
twice-proposed
twice-prosecuted
twice-protected
twice-proven
twice-revenged
twice-reversed
twice-revised
twice-revived
twice-revolted
twice-rewritten
twice-rich
twice-right
twice-risen
twice-roasted
twice-robed
twice-roused
twice-ruined
twice-sacked
twice-sacrificed
twice-said
twice-salvaged
twice-sampled
twice-sanctioned
twice-saved
twice-scared
twice-scattered
twice-scolded
twice-scorned
twice-sealed
twice-searched
twice-secreted
twice-secured
twice-seen
twice-seized
twice-selected
twice-sensed
twice-sent
twice-sentenced
twice-separated
twice-served
twice-set
twice-settled
twice-severed
twice-shamed
twice-shared
twice-shelled
twice-shelved
twice-shielded
twice-shot
twice-shown
twice-sick
twice-silenced
twice-worn
twice-wounded
twice-yielded
twiddle your thumbs
twiddle-twaddle
twiddling line
twig beetle
twig blight
twig borer
twig caterpillar
twig drop
twig gall
twig girdler
twig insect
twig pruner
twig rush
twig-formed
twig-green
twig-lined
twig-strewn
twig-suspended
twig-wrought
twilight arch
twilight blue
twilight home
twilight of the gods
twilight of your days
twilight parallel
twilight sleep
twilight state
twilight vision
twilight war
twilight zone
twilight-enfolded
twilight-hidden
twilight-hushed
twilight-loving
twilight-seeming
twilight-tinctured
twill weave
twill-woven
twin band mill
twin bed
twin bill
twin boat
twin equatorial
twin mill
twin screws
twin ship
twin sister
twin sisterhood
twin spinnaker rig
twin stock
twin tail wheel
twin tap
twin telescope
twin town
twin triode
twin valve
twin-balled
twin-bearing
twin-begot
twin-blossomed
twin-born
twin-brother
twin-cylinder
twin-engine
twin-engined
twin-engines
twin-existent
twin-float
twin-forked
twin-gun
twin-headed
twin-hued
twin-jet
twin-leaf
twin-leaved
twin-leaves
twin-lens
twin-lens camera
twin-lens reflex
twin-lens reflex camera
twin-light
twin-motor
twin-motored
twin-named
twin-peaked
twin-power
twin-prop
twin-roller
twin-screw
twin-set
twin-sister
twin-six
twin-spiked
twin-spired
twin-spot
twin-striped
twin-tailboom jet
twin-towered
twin-towned
twin-tractor
twin-wheeled
twin-wire
twine around
twine binder
twine braider
twine cutter
twine holder
twine polisher
twine reeler
twine spinner
twine-binding
twine-bound
twine-colored
twine-spinning
twine-toned
twine-twisting
twinge of conscience
twingle-twangle
twinkle of an eye
twinkling of an eye
twinning axis
twinning law
twinning machine
twist and turn
twist around your little finger
twist belting
twist bit
twist drill
twist grip
twist stitch
twist the knife
twist the law to your own ends
twist the lion's tail
twist the meaning
twist the meaning of
twist the words
twist your arm
twisted eglantine
twisted stomach worm
twisted-horn
twisted-stalk
twisting course
twisting machine
twisting pair
twisting path
twisting the lion's tail
twisty-wisty
twit-twat
twitch grass
twitch of conscience
twitch road	
twite finch

twitter-twatter
twittle-twattle
twizzle-twigg
two bits
two cents
two dozen
two estates
two fifths
two hundred
two leg
two o'clock
two of a kind
two old
two old cat
two or three
two pair
two shakes
two shakes of a lamb's tail
two times
two weeks
two whoops and a holler
two-a-cat
two-alarm fire
two-along
two-and-a-half stripes
two-and-one-half striper
two-angle
two-arched
two-armed
two-aspect
two-barred
two-barreled
two-base
two-base hit
two-beat
two-bedded
two-bid
two-bill
two-bit
two-bit politician
two-blade
two-bladed
two-block
two-blocks
two-bodied
two-bodies
two-bodies problem
two-bond
two-bottle
two-bottom plow
two-branched
two-bristled
two-bushel
two-by-four
two-capsuled
two-celled
two-cent
two-centered
two-chamber
two-chambered
two-charge
two-charge rate
two-circle
two-circuit
two-circuit switch
two-cleft
two-coat
two-color
two-color press
two-color printing
two-colored
two-compartment vessel
two-component
two-course system
two-cycle
two-cylinder
two-day
two-deck
two-deck vessel
two-decker
two-dimensional
two-dimensional wave
two-dimensionality
two-dimensionally
two-dimensioned
two-dollar
two-dollar bill
two-dollar broker
two-dollar word
two-eared
two-edged
two-em
two-em dash
two-ended
two-eye
two-eyed
two-eyes
two-face
two-faced	two-facedly
two-facedness
two-factor
two-family
two-family house
two-feeder
two-field system
two-figure
two-fingered
two-fisted
two-fisted man
two-floor
two-flowered
two-fluid
two-fold
two-foot
two-foot octave
two-footed
two-for-a-cent
two-for-a-penny
two-forked
two-formed
two-four
two-four time
two-gallon
two-grained
two-groove
two-grooved
two-guinea
two-gun
two-hand
two-handed
two-handed saw
two-handedly
two-handedness
two-handled
two-headed
two-high
two-hinged
two-horned
two-horse
two-horsepower
two-hour
two-humped
two-inch
two-leaf
two-leaved
two-legged
two-level
two-life
two-light
two-line
two-line octave
two-lined
two-lipped
two-lobed
two-lunged
two-man
two-man tent
two-mast
two-masted
two-master
two-membered
two-mile
two-minded
two-minute
two-minute gun
two-monthly
two-name
two-name paper
two-named
two-necked
two-needle
two-nerved
two-oar
two-oared
two-ounce
two-pair
two-part
two-part harmony
two-part time
two-parted
two-party
two-party system
two-pass
two-peaked
two-petaled
two-phase
two-phaser
two-piece
two-piece bow
two-piece suit
two-pile
two-piled
two-pin escapement
two-pipe
two-place
two-platoon
two-platoon system
two-plowed
two-ply
two-point
two-point landing
two-pointic
two-pole
two-position
two-pot screamer
two-pound
two-principle
two-pronged
two-quart
two-rail
two-ranked
two-rate
two-rayed
two-revolution
two-roomed
two-row
two-rowed
two-seated
two-seater
two-seeded
two-shafted
two-shanked
two-shaped
two-sheave
two-shilling
two-shillingly
two-shillingness
two-shot
two-sided
two-sidedness
two-soused
two-speed
two-spined
two-spored
two-spot
two-spotted
two-stage rocket
two-stall
two-stalled
two-star
two-star general
two-step
two-step rocket
two-stepped
two-stepping
two-sticker
two-storied
two-story
two-stream
two-stringed
two-striped
two-striper
two-stroke
two-stroke cycle engine
two-stroke-cycle
two-suit
two-suiter
two-syllable
two-tailed test
two-teeth
two-thirder
two-thirds
two-three
two-throw
two-time
two-time loser
two-timed
two-timer
two-timing
two-tined
two-toed
two-toed anteater
two-tone
two-toned
two-tongued
two-toothed
two-topped
two-topsail schooner
two-track
two-tusked
two-twisted
two-unit
two-up
two-valved
two-volume
two-way
two-way communication
two-way radio
two-wheel
two-wheeled
two-wheeler
two-wicked
two-winged
two-winged fly
two-woods
two-word
two-year
two-year college
two-year-old
twofold tackle
twopenny grass
twopenny-halfpenny
twyhynde man
ty block
ty up
tylo-
tymp stick
tympan frame
tympan sheet
tympanic bone
tympanic cavity
tympanic membrane
tympano-
type A
type AB
type B
type O
type bar
type block
type body
type cabinet
type case
type caster
type characteristic
type class
type cutter
type cutting
type face
type founder
type founding
type foundry
type gauge
type genus
type lice
type locality
type matter
type measure
type metal
type mold
type object
type page
type part
type plate
type rack
type shank
type size
type sizes
type slug
type species
type specimen
type station
type stem
type style
type styles
type theory
type wash
type wheel
type-blackened
type-cast
type-caster
type-casting
type-cutting
type-distributing
type-dressing
type-high
types of
types of containers
types of languages
types of marks
types of photography
typesetting machine
typesetting machines
tyrolite green
tyrosine hydroxylase
tzetze fly
u hlan
u-boat
u-mm
u-o umlaut
ua mau ke ea o ka aina i ka pono
uberrima fides
ubi supra
ubussu palm
ucinate epilepsy
ugli fruit
ugly as hell
ugly as sin
ugly as the wrath of God
ugly customer
ugly duckling
ugly person
ugly thing
ugly wind
ugly-clouded
ugly-conditioned
ugly-eyed
ugly-faced
ugly-headed
ugly-looking
ugly-omened
ugly-tempered
ugly-visaged
uh-huh
ujamaa village
uji fly
ukiyo-e
ulcer diet
ulcerative colitis
ule tree
ulla grass
ullage rocket
ulnar nerve
ulnocondylar foramen
ulterior motive
ultima Thule
ultima ratio
ultima ratio regum
ultima thule
ultimate aim
ultimate analysis
ultimate cause
ultimate concern
ultimate constituent
ultimate load
ultimate purpose
ultimate strength
ultimate stress
ultimate truth
ultra vires
ultra-
ultra-Protestantism
ultra-abolitionism
ultra-abstract
ultra-academic
ultra-affected
ultra-aggressive
ultra-ambitious
ultra-angelic
ultra-apologetic
ultra-arbitrary
ultra-argumentative
ultra-atomic
ultra-auspicious
ultra-slow
ultra-ultra
ultrahigh frequency
ultrahigh-frequency
ultrahigh-frequency station
ultramannish bob
ultrashortwave diathermy
ultrasonic detector
ultrasonic diathermy
ultrasonic flow detection
ultrasonic flow detector
ultrasonic inspector
ultrasonic spectacles
ultrasonic speed
ultrasonic therapy
ultraviolet heat
ultraviolet lamp
ultraviolet light
ultraviolet microscope
ultraviolet ray
ultraviolet therapy
um suff
um-
um-hum
um-yum
umber bird
umber-black
umber-brown
umber-colored
umber-rufous
umbilical cord
umbilical hernia
umble pie
umbra tree
umbrella ant
umbrella bird
umbrella bush
umbrella catalpa
umbrella fern
umbrella fir
umbrella grass
umbrella leaf
umbrella maker
umbrella making
umbrella man
umbrella palm
umbrella pine
umbrella plant
umbrella pulley
umbrella sedge
umbrella shell
umbrella stand
umbrella step
umbrella tent
umbrella tree
umbrella-shaped
umbrella-topped
umbo-
umbu-rana
umpire assay
un w
un-
un-American
un-Americanism
un-Australian
un-Austrian
un-Brahminical
un-Christianise
un-Christianised
un-Christianising
un-Christianize
un-Christianized
un-Christianizing
un-Christianlike
un-Christianly
un-Christliness
un-Christly
un-Christmaslike
un-English
un-Eucharistic
un-Eucharistical
un-Eucharistically
un-European
un-French
un-German
un-Jesuitic
un-Jesuitical
un-Jesuitically
un-Latinised
un-Latinized
un-Negro
un-Scripturality
un-Victorian
un-american
un-co-operating
un-co-operative
un-co-ordinate
un-co-ordinated
un-come-at-able
un-come-at-ableness
un-come-at-ably
un-english
un-first-class
un-free-trade
un-frenchify
un-get-at-able
un-get-at-ableness
un-hunh
un-numbed
un-panic-stricken
un-preempted
un-reembodied
un-thought-of
una corda
una corda pedal
una voce
unable to
unable to believe your eyes
unable to believe your senses
unable to forget
unable to make ends meet
unable to meet your obligations
unable to pay your creditors
unable to say 'boo' to a goose
unable to say 'no'
unable to show your face
unabridged dictionary
unacceptable person
unaccommodated man
unaccounted-for
unaccustomed to
unacquaintance with evil
unacquainted with
unacquainted with evil
unadorned meaning
unadorned style
unaided eye
unalienable rights
unaligned nation
unalloyed happiness
unanalyzed mass
unanimously elected
unarmored scale
unasked-for
unassisted eye
unattended to
unauthorized absence
unavailable energy
unavoidable casualty
unaware of
unbalanced mind
unbiased observer
unblessed with
unblinking eye
unbloody sacrifice
unblush mg
unbosom yourself
unbroken chord
unbroken sleep
unbuckle your belt
unburden your conscience
unburden your heart
unburden your mind
unburdening yourself
unbuttoned ease
uncalled for
uncalled-for
uncared-for
uncertainty principle
under a strain
under active consideration
under advisement
under an eclipse
under an error
under any other name
under arms
under arrest
under attack
under bare poles
under bevel
under canvas
under close arrest
under coercion
under compulsion
under consideration
under construction
under control
under cover
under cover of
under damping
under detention
under discipline
under dominant
under easy sail
under examination
under false colors
under fire
under forced draft
under full steam
under hand and seal
under handicap
under heaven
under house arrest
under investigation
under lock and key
under mediant
under nine
under no circumstances
under oath
under obligation
under one's breath
under one's wing
under pain of
under par
under part
under penalty of
under power
under press of
under press of canvas
under press of sail
under press of sail and steam
under press of steam
under pressure
under privilege
under probation
under protest
under restraint
under revision
under sail
under secretary
under security
under security restrictions
under siege
under steam
under surveillance
under suspicion
under the aegis of
under the auspices of
under the ban
under the ban of secrecy
under the breath
under the circumstances
under the cloak of
under the counter
under the eyes of
under the garb of
under the hammer
under the harrow
under the heel
under the heel of
under the impression
under the influence
under the knife
under the lash
under the lee
under the nose of
under the pretext of
under the protection of
under the rose
under the seal of secrecy
under the shadow of your wing
under the shield of
under the stars
under the sun
under the surface
under the table
under the weather
under the wind
under the wing of
under the wire
under tow
under way
under weigh
under wraps
under your belt
under your breath
under your care
under your command
under your control
under your eyes
under your hand
under your hat
under your jurisdiction
under your nose
under your orders
under your own power
under your thumb
under your very nose
under your wing
under-
under-action
under-body
under-breath
under-carriage
under-chap
under-covert
under-deck
under-dip
under-earth
under-estimate
under-frame
under-garment
under-glaze
under-jaw
under-king
under-mentioned
under-petticoat
under-round
under-runner
under-secretary
under-sized
under-skirt
under-steward
under-surface
under-the-counter
under-the-table
under-time
under-treasurer
undercover activity
undercover man
undercurrent relay
underdeck tonnage
underdeveloped nation
underfrequency relay
undergo a change
undergo an eclipse
undergo deprivation
undergo privation
undergo schooling
undergo treatment
underground activity
underground cable
underground fighter
underground film
underground literature
underground movie
underground railroad
underground railway
underground river
underground route
underground trolley
underground warfare
underhand bundler
underhand dealing
underhand stope
underheat brooder
underhung rudder
underload starter
underload switch
underlying level
underlying meaning
underlying reason
underlying structure
undermine your faith
undermine your reason
underpitch vault
underpower relay
underprivileged, the
undershot wheel
understand by
understand one another
understudy for
undertake operations
undertaker's establishment
undervaluing of self
underwater archaeologist
underwater archaeology
underwater craft
undesirable discharge
undesirable person
undigested securities
undistributed costs
undistributed middle
undivided attention
undivided profits
undreamed-of
undress uniform
undue excitability
undue liberty
undulant fever
undulatory theory
unduly neglected
undying fame
undying friendship
unearned income
unearned increment
uneducated speech
unemployed, the
unemployment benefit
unemployment compensation
unemployment insurance
unequal to
unequal treatment
unequal-lengthed
unequal-limbed
unequal-lobed
unequal-sided
unequal-tempered
unequal-valved
uneven-aged
uneven-carriaged
uneven-handed
uneven-numbered
uneven-priced
uneven-roofed
unexcused absence
unexempt from
unexpended balance
unexplored ground
unexplored territory
unfair competition
unfair discrimination
unfair list
unfair practice
unfairly neglected
unfallen state
unfamiliar with
unfathomed deeps
unfavorable balance of payments
unfavorable wind
unfeel mg
unfinished worsted
unfit for human consumption
unfit to live in
unfold a tale
unforeseen attack
unforgivable sin
unfortunate time
unfortunate woman
unfrozen hydrometeor
unfulfilled pledge
unfunded debt
unfurl a banner
unfurl a flag
unfurl an ensign
unfurl sail
unfurnished uninhabited
unget-at-able
ungka puti
ungrateful wretch
ungreenable black
 unh-unh
unhappy about
unhappy lot
unhappy-eyed
unhappy-faced
unhappy-happy
unhappy-looking
unhappy-seeming
unhappy-witted
unharmonious relationship
unheard-of
unholy dread
unholy joy
unholy mess
unhoped for
unhoped-for
uni-
uni-univalent
unicameral legislature
unicellular animal
unicorn antelope
unicorn beetle
unicorn bird
unicorn fish
unicorn hawk moth
unicorn moth
unicorn plant
unicorn ram
unicorn root
unicorn shell
unicorn whale
unicorn-plant family
unidentified flying object
unidirectional current
unidirectional microphone
unidirectional signal
unified atomic mass unit
unified field theory
unified theory
uniflow engine
uniform convergence
uniform velocity
uniform with
uniform-proof
uniformly continuous function
unilateral trade
unimportant person
uninhabited region
uninitiated in
uninterrupted course
uninterrupted sequence
unintoxicated state
uninvited guest
unio-
union black
union blue
union bow
union card
union catalog
union catalogue
union color
union contract
union cord
union district
unit matrix
unit of account
unit of being
unit of energy
unit of flux
unit of force
unit of light
unit of meaning
unit of measurement
unit of weight
unit operation
unit organ
unit plane
unit point
unit price
unit pricing
unit prism
unit process
unit pyramid
unit quantity
unit rule
unit stress
unit switch
unit tare
unit trust
unit vector
unit watermark
unit's place
unit-set
unitary government
unitary matrix
unite efforts
unite in
unite in holy wedlock
unite in marriage
unite in sexual intercourse
unite with
united action
united front
united nations day
united states
unitive life
units of force
units of mass
units of weight
unity of interest
unity stress
univalent chromosome
univalent vaccine
universal accord
universal affirmative
universal agreement
universal algebra
universal antenna
universal church
universal class
universal concept
universal conception
universal coupling
universal donor
universal ego
universal essence
universal gas constant
universal geometry
universal head
universal joint
universal language
universal law
universal life force
universal military training
universal motor
universal negative
universal plane
universal plate
universal quantifier
universal remedy
universal ruin
universal self
universal solvent
universal stage
universal suffrage
universal symbol
universal time
universal truth
universalistic hedonism
universally admitted
universally recognized
universe of discourse
universe vine
university college
university extension
university settlement
university-bred
university-conferred
university-going
university-sponsored
university-taught
university-trained
unjust legal disability
unjust representation
unknown depths
unknown quantity
unknown soldier
unknown, the
unlapsed state
unlawful assembly
unlawful entry
unlearned capacity
unleash destruction
unleash the hurricane
unleavened bread
unless that
unlicked cub
unlisted securities
unlonged-for
unlooked for
unlooked-for
unlucky day
unlucky hour
unlucky person
unmade-up
unmanned satellite
unmarried person
unmeasured in your praise
unmediated perception
unmindful of
unmistakable sign
unmoth-eaten
unmoved mover
unnarrow-minded
unnarrow-mindedly
unnarrow-mindedness
unnecessary repetition
unnumbered bank account
uno saltu
unobstructed vision
unofficial wife
unorganized data
unorganized ferment
unorganized matter
unpaid accounts
unpaid-for
unpaid-letter
unpaid-letter stamp
unself-sacrifically
unself-sacrificing
unself-sufficiency
unself-sufficient
unself-sufficiently
unself-supported
unself-valuing
unself-willed
unself-willedness
unsent-for
unshakable nerves
unshaken confidence
unsheathe your weapon
unsighed-for
unskilled in
unskilled labor
unskilled laborer
unskillful person
unslaked lime
unsorted mass
unsound mind
unsoundness of mind
unsparing of self
unspoken accusation
unspoken consent
unstable as water
unsteady market
unstopper your ears
unsuccessful person
unsuitable time
unsupported by evidence
unsure of yourself
unswerving attention
unsymmetrical loading
untalked-of
unthinking response
unthought-of
unthought-on
unthought-out
untie the knot
untie the purse strings
untie your hands
until now
until the conclusion of
until then
until this time
until tomorrow
until we meet again
untimely end
unto the ends of the earth
unto yourself
untongue-tied
untouched by evil
untreated mineral
unup-braided
unused to
unutterable sin
unverified report
unverified supposition
unversed in
unwanted person
unwarranted demand
unwed condition
unwed state
unwedded to an opinion
unwelcome guest
unwell-intentioned
unwholesome joy
unwilling to accept
unwilling to forgive and forget
unwinking eye
unwise step
unwished-for
unwitting disclosure
unworm-eaten
unworthy of belief
unworthy of consideration
unworthy of one
unworthy of regard
unworthy person
unwritten constitution
unwritten law
up a stump
up a tree
up against
up against it
up ahead
up and about
up and around
up and at ‘em
up and coming
up and die
up and do
up and doing
up and down
up and go
up to your neck in
up town
up your alley
up your pay
up your sleeve
up your street
up-
up-a-daisy
up-anchor
up-and
up-and-coming
up-and-comingness
up-and-doing
up-and-down
up-and-down dial
up-and-down indicator
up-and-downish
up-and-downishness
up-and-downness
up-and-downy
up-and-over
up-and-under
up-and-up
up-bow
up-bow sign
up-chuck
up-country
up-end
up-grade
up-market
up-over
up-page
up-patient
up-put
up-putting
up-see-daisy
up-sky
up-stream
up-stroke
up-to-date
up-to-dately
up-to-dateness
up-to-datish
up-to-datishness
up-to-the-minute
up-trending
up-wind
upas tree
upfeed system
uphill going
uphill work
upholsterer bee
upholsterer's needle
upland cotton
upland hickory
upland plover
uplift brassiere
upmost height
upon condition that
upon even terms
upon oath
upon pain of
upon presentation
upon shares
upon sight
upon something
upon the heels of
upon the hip
upon the point of
upon the whole
upon this bank and shoal of time
upon trust
upon which
upon your hands
upon your honor
upper air
upper arm
upper atmosphere
upper berth
upper bo
upper bound
upper bracket
upper case
upper chamber
upper circles
upper class
upper classes
upper classman
upper crust
upper cut
upper deck
upper extremity
upper frequencies
upper hand
upper house
upper leather
upper limit
upper middle class
upper mordent
upper partial tone
upper regions
upper school
upper semicontinuous function
upper side
upper spanker
upper story
upper ten
upper ten thousand
upper works
upper-case
upper-cased
upper-casing
upper-circle
upper-class
upper-cruster
upper-form
upper-grade
upper-school
uppermost height
uppers and lowers
upright drill
upright piano
upright shave
upright-growing
upright-grown
upright-hearted
upright-heartedness
upright-minded
upright-standing
upright-walking
ups and downs
ups and downs of life
upset one's applecart
upset price
upset stomach
upset the
upset the boat
upset your applecart
upsetting lever
upsetting moment
upsetting thermometer
upside down
upside downward
upside-down
upside-down cake
upside-down flag
upside-downism
upside-downness
upside-downwards
upsilon particle
upstairs and downstairs
upstairs maid
upswept hairdo
upsy-daisy
upsy-freesy
upsy-turvy
upward looking
upward mobility
upward mordent
upward motion
upward strabismus
upward system
upward-borne
upward-bound
upward-gazing
upward-looking
upward-pointed
upward-rushing
upward-shooting
upward-stirring
upward-striving
upward-turning
upwards of
ur washed
ur-
ural-altaic
uralite-gabbro
uralo-
uran-
uranite group
uranium 235
uranium 238
uranium dioxide
uranium glass
uranium lead
uranium nitrate
uranium oxide
uranium ray
uranium reactor
uranium red
uranium series
uranium trioxide
uranium yellow
uranium-radium series
urano-
uranoso-
uranosouranic oxide
uratic arthritis
urban blight
urban blues
urban center
urban complex
urban district
urban economy
urban guerrilla
urban market
urban planner
urban redevelopment
urban renewal
urban sociology
urban sprawl
urbi et orbi
urchin fish
urdor urd
ure-ox
urea ferment
urea formaldehyde
urea frost
urea-formaldehyde
urea-formaldehyde resin
uredo-fruit
ureido group
ureido radical
ureo-
uretero-
uretero-ureterostomy
uretero-uterine
urethr-
urethral arthritis
urethral fever
urethro-
ureylene group
ureylene radical
urge along
urge as a motive
urge on
urge on the mind
urge reasons for
urge upon
urgent need
uric acid
uric-acid
urim and thummim
urin-
urinal fever
urinalysis kit
urinary bladder
urinary calculus
urine analysis
uriniferous tubule
urino-
urinogenital disease
urinogenital ridge
urinogenital sinus
urn burial
urn field
urn moss
urn schemata
urn-buried
urn-cornered
urn-enclosing
urn-shaped
urn-topped
uro-
urogenital disease
urogenital system
urological surgery
uropygial gland
urradhus law
ursa major
ursa minor
ursine dasyure
ursine howler
urucu-rana
urucuri iba
usar grass
usara root
use a light hand
use a light rein
use advisedly
use an experimental sample
use as a doormat
use as a meal ticket
use badly
use district
use faulty grammar
use for your own ends
use force
use force upon
usher in
usher into the world
usher-in
using up
using-ground
usque ad aras
usual, the
usurp the crown
usurp the mantle
usurp the throne
usus loquendi
ut infra
ut infra
uterine brother
uterine kin
uterine sister
uterine
uti possidetis
utile dulci
utility man
utility plane
utility player
utility pole
utility room
utility sash
utmost extent
utmost height
uto-aztecan
utopian socialism
utopian socialist
utter a caveat
utter a judgment
utter a mot
utter bar
utter barrister
utter darkness
utter defeat
utter rout
utter threats against
utterance string
utterly attentive
utterly attentive
utterly detest
uva grass
uva-ursi
uvi yam
uvio glass
uvio lamp
uzara root
vacuum evaporating
vacuum fan
vacuum filter
vacuum flask
vacuum gauge
vacuum hammer
vacuum induction furnace
vacuum jar
vacuum kettle
vacuum line
vacuum machine
vacuum oven
vacuum pack
vacuum pan
vacuum phototube
vacuum pump
vacuum separator
vacuum shunt
vacuum still
vacuum strainer
vacuum sweeper
vacuum tank
vacuum tar
vacuum tester
vacuum trap
vacuum tube
vacuum tube components
vacuum tube rectifier
vacuum valve
vacuum ventilation
vacuum vessel
vacuum-clean
vacuum-packed
vacuum-tube circuit
vacuum-tube electrometer
vacuum-tube hearing aid
vacuum-tube voltmeter
vade in pace
vade mecum
vade mecums
vade-mecum
vadium mortuum
vadium vivum
vae victis
vag-
vagabond green
vagino-
vagrant impulse
vague appearance
vague feeling
vague idea
vague memory
vague notion
vague supposition
vague-eyed
vague-ideaed
vague-looking
vague-menacing
vague-minded
vague-phrased
vague-shining
vague-worded
vain attempt
vain expectation
vain person
vain pretensions
vain show
vair en point
vale of tears
vale of years
valedictory address
valence electron
valence electrons
valence formula
valence isomerism
valence number
valence shell
valency electron
valent atoms and radicals
valentine day
valeric acid
valero-
valet de chambre
valet de pied
valet-de-chambre
valet-de-place
valiant knight
valid contract
vallary crown
vallate papilla
vallecular canal
valley board
valley breeze
valley flat
valley lily
valley mahogany
vanadium oxide
vanadium steel
vanadous oxide
vandyke brown
vanilla bean
vanilla chica
vanilla extract
vanilla grass
vanilla leaf
vanilla plant
vanilla pudding
vanille ice
vanillyl alcohol
vanish from sight
vanish into thin air
vanish like a dream
vanishing cream
vanishing fraction
vanishing line
vanishing point
vanishing trace
vanity bag
vanity box
vanity case
vanity fair
vanity lamp
vanity plate
vanity press
vanity unit
vanity-proof
vant-
vantage game
vantage ground
vantage point
vantage post
vantage-ground
vapor bath
vapor bathing
vapor burner
vapor cabinet
vapor cloud
vapor condenser
vapor density
vapor engine
vapor heating
vapor inhaler
vapor jacket
vapor lamp
variation factor
variation of parameters
variation range
varico-
varicose aneurysm
varicose vein
varicose veins
varied robin
varied thrush
variegated pattern
variegated-leaved
variety hybrid
variety meat
variety shop
variety show
variety store
varifocal lens
vario-
variola porcina
various-blossomed
various-colored
various-formed
various-leaved
variscite green
varix lymphaticus
varnish brush
varnish cleaner
varnish dryer
varnish filler
varnish gum
varnish maker
varnish remover
varnish renovator
varnish resins
varnish sumac
varnish thinner
varnish tree
varnish-drying
varnish-making
varnish-treated
varnish-treating
varnishing day
varsity socks
varsity student
varve-count
varying duty
varying hare
varying-speed motor
vaulting capital
vaulting cell
vaulting course
vaulting horse
vaulting pillar
vaulting shaft
vaulting shoe
vaulting tile
vaunt-
vaunt-courier
vaya con Dios
veal Parmigiana
veal bird
veal calf
veal chop
veal cutlet
veal scallopini
vector addition
vector algebra
vector analysis
vector area
vector field
vector for
vector line
vector point function
vector potential
vector product
vector quantity
vector space
vector sum
vedette boat
vedette post
vee tail
veer around
veer off
veer short
veering wind
vegetable albumin
vegetable alkali
vegetable anatomy
vegetable bezoar
vegetable black
vegetable brimstone
vegetable butter
vegetable calomel
vegetable cheese
vegetable dye
vegetable earth
vegetable egg
vegetable ethiops
vegetable existence
vegetable fibrin
vegetable flannel
vegetable garden
vegetable gelatin
vegetable glue
vegetable gold
vegetable hair
vegetable ivory
vegetable jelly
vegetable kingdom
vegetable lamb
vegetable life
vegetable market
vegetable marrow
vegetable mold
vegetable naphtha
vegetable oil
vegetable oils
vegetable orange
vegetable oyster
vegetable parchment
vegetable pathology
vegetable physiology
vegetable plate
vegetable red
vegetable remedies
vegetable resins
vegetable satyr
vegetable sheep
vegetable silk
vegetable soup
vegetable spermaceti
vegetable sponge
vegetable stock
vegetable store
vegetable tallow
vegetable tanning
vegetable wax
vegetable wool
vegetable-eating
vegetable-feeding
vegetable-growing
vegetable-tallow tree
vegetal pole
vegetation daemon
vegetation daimon
vegetation demon
vegetation spirit
vegetation-proof
vegeto-
vehement action
vehicle tank
vehicular tunnel
veil of secrecy
veil-hid
veil-wearing
veiled accusation
veiled in darkness
veiled threat
veiled voice
vein claim
vein dike
vein islet
vein quartz
vein-bearing
vein-healing
vein-mining
vein-streaked
veining tool
velar-pharyngeal
veld cornet
veld sickness
veld sore
veld-
veld-kost
velic point
velleda moth
vellum binder
vellum binding
vellum cloth
vellum form
vellum paper
vellum-bound
vellum-covered
vellum-leaved
vellum-papered
vellum-written
velocity co-ordinate
velocity function
velocity head
velocity microphone
velocity modulation
velocity of circulation
velocity of money
velocity peak
velocity potential
velocity ratio
velocity screen
velocity stage
velt-marshall
velvet ant
velvet ash
cap
velvet carpet
cap
velvet cork
cap
velvet darkness
cap
velvet dock
cap
velvet duck
cap
velvet finish
cap
velvet fish
cap
velvet flower
cap
velvet glove
cap
velvet grass
cap
velvet green
cap
velvet groundsel
cap
velvet head
velvet leaf
velvet leather jacket
velvet moss
velvet osier
velvet paper
velvet plant
velvet rug
velvet runner
velvet scoter
velvet sponge
velvet stout
velvet tree
velvet violet
velvet-banded
velvet-bearded
velvet-black
cap
velvet-caped
velvet-clad
velvet-leaved
velvet-pile
velvet-suited
ven-
vena cava
vena contracta
venae contractae
vending machine
veneer grafting
veneer moth
venerable sir
venerable-looking
venereal appetite
venereal desire
venereal disease
venetian blind
venetian blind reflector
venetian glass
venetian red
venga lo que venga
vengeance-crying
vengeance-prompting
vengeance-sated
vengeance-scathed
vengeance-seeking
vengeance-taking
ven-
venial sin
venire de novo
venire facias
venire facias de novo
venom maker
venom-breathing
venom-breeding
venom-cold
venom-fanged
venom-hating
venom-mouthed
venom-spotted
venom-sputtering
venom-venting
venomous-hearted
venomous-looking
venomous-minded
venous blood
venous transfusion
vent drill
vent feather
vent punch
vent stack
vent tank
vent wire
vent your anger
vent your choler
vent your rancor
vent your spleen
vent-hole
vent-peg
ventilate inboard
ventilating apparatus
ventilating blower
ventilating brick
ventilating column
ventilating engineer
ventilating fan
ventilating grate
ventilating jack
ventilating millstone
ventilating shaft
ventilating skylight
ventilating system
ventilation engineer
ventril
ventral airdome
ventral fin
ventral radome
ventri
ventricular fibrillation
ventro
venture a guess
venture capital
venture on
venture to
venture to say
venture upon
venturi tube
venus's-flytrap
veratr
veratric acid
verb complex
verb phrase
verb sap
verbal adjective
verbal agreement
verbal amnesia
verbal auxiliary
verbal contest
verbal diarrhea
verbal engagement
verbal fallacy
verbal intercourse
verbal noun
verbal response
verbal thrust
verbal translation
verbatim et litteratim
verbena family
verbena oil
verbena violet
verbum sap
verbum sapienti
verbum sat
verd antique
verd gay
verd russe
verd-antique
verdant green
verde antico
verde antique
verdict of acquittal
verdict of guilty
verdict of not guilty
verdigris green
verditer blue
verditer green
verge escapement
verge on
verge paper
verge upon
verge watch
verge-board
verging on
verging upon
vermeil-cheeked
vermeil-dyed
vermeil-rimmed
vermeil-tinctured
vermeil-tinted
vermeil-veined
vermi-
vermiform appendix
vermiform process
vermilion rockfish
vermilion-colored
vermilion-dyed
vermilion-red
vermilion-spotted
vermilion-tawny
vermilion-veined
verm-in-covered
vermin-destroying
vermin-eaten
vermin-footed
vermin-haunted
vermin-infested
vermin-ridden
vermin-spoiled
vermin-tenanted
vermouth cassis
vernacular language
vernacular speech
vernal equinox
vernal grass
vernal point
vernal-bearded
vernal-blooming
vernal-flowering
vernal-seeming
vernal-tinctured
verner's law
vernier caliper
vernier dial
vernier engine
vernier micrometer
vernier rocket
vernier scale
vernier telescope
 vernis Martin
vernix caseosa
vernonia purple
 verruci-
vers de societe
vers de socit
vers libre
vers librist
vers libriste
vers-librist
versatile digit computer
verse anthem
verse service
verse-colored
verse-commemorated
verse-prose
verse-writing
versed cosine
versed in
versed sine
version book
vert russe
vertebral arthritis
vertebral column
vertebro-
vertical amplifier
vertical angle
vertical angles
vertical circle
vertical combination
vertical combinationalness
vertical deflector
vertical distance
vertical engine
vertical envelopment
vertical file
vertical fin
vertical fire
vertical grouping
vertical height
vertical integration
vertical interference
vertical lift bridge
vertical mobility
vertical overlap
vertical radiator antenna
vertical rays
vertical saw
vertical stabilizer
vertical synchronizer
vertical synchronizing pulse
vertical union
vertical-grained
vertical-lift mower
vervain family
vervain hummingbird
vervain mallow
vervain sage
vervain thoroughwort
very beginning
very best
very good
very high frequency
very image
very important person
very light
very like
vestry room
vesuvian jade
vesuvianite jade
vetch-leaved
veteran car
veterans day
veterans hospital
veterans' preference
veterinary corps
veterinary medicine
veterinary science
veterinary surgeon
veterinary surgery
vetiver green
vetivert oil
veto message
veto power
vexation of spirit
vexed question
vi apple
vi et armis
via media
via-medialism
vials of hate
vials of wrath
viande de boucherie
vibration and stress analyzer
vibration massage
vibration meter
vibration number
vibration point
vibration treatment
vibration-proof
vibratory current
vibratory massage
vibrionic abortion
vibro-
vicar apostolic
vicar capitular
vicar choral
vicar forane
vicar general
vicar of christ
vicar-choralship
vicar-general
vicar-generalship
vicarage tithe
vicariate apostolic
vice-provostship
vice-punishing
vice-queen
vice-rebuking
vice-rector
vice-rectorship
vice-regal
vice-regalize
vice-regency
vice-regent
vice-reign
vice-residency
vice-resident
vice-secretary
vice-sheriff
vice-sick
vice-squandered
vice-stadtholder
vice-steward
vice-sultan
vice-taming
vice-tenace
vice-throne
vice-treasurer
vice-treasurership
vice-trustee
vice-upbraiding
vice-verger
vice-viceroy
vice-warden
vice-wardenry
vice-wardenship
vice-worn
viceregal assent
vichy water
vicious circle
vicious reasoning
vicissitudes of fortune
vicontiel rent
vicontiel writ
victoria cross
victoria plum
victory garden
victory girl
victory medal
victual rent
victualing bill
victualing house
victualing note
victualing office
victualing ship
victualing station
victualing yard
vida finch
vide ante
vide infra
vide post
vide supra
vide ut supra
video amplifier
video channel
video detector
video frequency
video game
video monitor
video signal
video static
video tape
video tape recorder
video transmitter
video truck
video-gazer
videotape recorder
vie against
vie for
vie with
vienna sausage
view angle
view as
view camera
view finder
view halloa
view halloo
view in a new light
view in all its phases
view mark
view together
view with a jaundiced eye
view with a scornful eye
view with disfavor
view with favor
view with indulgence
view with the mind's eye
view-halloo
view-point
viewing audience
vigesimo-quarto
vigesimo-quartos
vigil light
vigilance committee
vigilance man
vigogne yarn
vile language
vile-born
vile-bred
vile-concluded
vile-fashioned
vile-looking
vile-natured
vile-proportioned
vile-smelling
vile-spirited
vile-spoken
vile-tasting
villa-dotted
villa-dwelling
villa-haunted
village cart
village college
village community
village economy
village green
village of the dead
village reserve
village soviet
village-born
village-dwelling
village-lit
villain d
villainous-looking
villainy-proof
villanous saltpetre
villein socage
vin du pays
vin mousseux
vin ordinaire
vin rose
vin rouge
vin-
viljaune
vinaigrette sauce
vincent's angina
vincent's infection
vincit omnia veritas
vinculum matronum
vindicate a claim to
vindicate a right to
vindicate a title to
vine bamboo
vine bark louse
vine beetle
vine black
vine borer
vine bower
vine cactus
vine chafer
vine forester
vine fretter
vine hawk moth
vine hopper
vine leaf
vine leaf folder
vine leek
vine louse
vine maple
vine mesquite
vine mildew
vine misquite
vine moth
vine peach
vine pest
vine sawfly
vine scale
vine slug
vine snake
vine sorrel
vine sphinx
vine tie
vine turner
vine webworm
vine weevil
vine wilt
vine-bearing
vine-bordered
vine-clad
vine-covered
vine-crowned
vine-decked
vine-dresser
vine-encircled
vine-fed
vine-garlanded
vine-growing
vine-hung
vine-laced
vine-leafed
vine-leaved
vine-mantled
vine-planted
vine-producing
vine-robbed
vine-shadowed
vine-sheltered
vine-wreathed
vinegar aspect
vinegar eel
vinegar essence
vinegar fly
vinegar lamp
vinegar maker
vinegar making
vinegar mother
vinegar plant
vinegar rot
vinegar tree
vinegar worm
vinegar-faced
vinegar-flavored
vinegar-generating
vinegar-hearted
vinegar-tart
vineyard plow
vingt-et-un
vinho verde
vini-
vino de pasto
vino-
vins ordinaires
vintage car
vintage wine
vintage year
vinyl acetate
vinyl alcohol
vinyl chloride
vinyl ether
vinyl group
vinyl plastic
vinyl polymer
vinyl radical
vinyl resin
vinylidene chloride
vinylidene group
vinylidene radical
vinylidene resin
viol block
viol d'amore
viol d'orchestre
viol da braccio
viol da gamba
viol da spalla
viol di bordone
viol di fagotto
viol family
viola alta
viola bastarda
viola clef
viola d'amore
viola d'amores
viola da braccio
viola da braccios
viola da gamba
viola da gambas
viola da spalla
viola damore
viola di bordone
viola di fagotto
viola pomposa
violate grammar
violate the law
violation of law
violet damour
violent blow
violent change
violent death
violent exercise
violent flow
violent person
violet carmine
violet cress
violet family
violet iris
violet prairie clover
violet ray
violet root
violet root rot
violet sage
violet shell
violet shift
viridine yellow
virola tallow
virtual focus
virtual image
virtual storage
virtue-armed
virtue-binding
virtue-loving
virtue- tempting
virtue-wise
virtute et armis
virus disease
virus pneumonia
virus warfare
vis comica
vis inertiae
vis major
vis mortua
vis vitae
vis vitalis
vis viva
vis-a-ns
vis-a-vis
vis-a-visness
viscera itch
visceral leishmaniasis
visceral rheumatism
viscero-
vise cap
vise chuck
vise coupling
visibility curve
visibility meter
visibility unlimited
visibility zero
visible balance
visible horizon
visible radiation
visible spectrum
visible speech
visible-speech data
vision-directed
vision-filled
vision-haunted
vision-seeing
vision-struck
visit at
visit upon
visit with
visitations of providence
visiting book
visiting card
visiting day
visiting fireman
visiting list
visiting nurse
visiting patrol
visiting professor
visiting teacher
visiting ticket
visitor-general
vista of time
visual acuity
visual aid
visual aids
visual arts
visual binary
visual display unit
visual examination
visual field
visual flight
visual flight rules
visual flying
visual humor
visual image
visual joke
visual magnitude
visual memory
visual organ
visual purple
visual range
visual sense
visual tracking station
visual violet
visual yellow
visual-aural radio range
visual-aural range
vita contemplativa
vita glass
vital body
vital capacity
vital center
vital concern
vital energy
vital flame
vital fluid
vital force
vital function
vital impulse
vital interest
vital principle
vital soul
vital spark
vital spirit
vital staining
vital statistics
vitam impendere vero
vitamin A
vitamin A1
vitamin A2
vitamin B
vitamin B complex
vitamin B1
vitamin B12
vitamin B2
vitamin B6
vitamin Bc
vitamin C
vitamin D
vitamin D2
vitamin D3
vitamin E
vitamin G
vitamin H
vitamin K
vitamin K1
vitamin K2
vitamin K3
vitamin M
vitamin P
vitamin a
vitamin b
vitamin b12
vitamin b2
vitamin b6
vitamin c
vitamin chart
vitamin complex
vitamin d
vitamin deficiency
vitamin e
vitamin g
vitamin h
vitamin k
vitamin p
deficiency diet
give injection
vitelline membrane
vitellogenin
vitello-
vitello-intestinal
viti-
vitreous body
vitreous china
vitreous copper
vitreous electricity
vitreous enamel
vitreous fusion
vitreous humor
vitreous humour
vitreous selenium
vitreous silica
vitreous silver
vitreous sponge
vitreous table
vitrified fort
vitrail chamber
vitrail stone
vitrilated tartar
vitrilized bone
vitro-
vitro-clarain
vitro-di-trina
vitular apoplexy
viva voce
viva voce examination
viva-voce
vivaciousness vivacity
vivacity of imagination
vive l'amour
vive la bagatelle
vive valeque
viverrine cat
viverrine otter
vivi-
vivid description
vivid image
vivid imagination
vizard maker
vizard making
vizard mask
vizard-faced
vizard-hid
vizard-mask
vizard-wearing
voa vanga
vocabulary entry
vocabulary test
vocal band
vocal bands
vocal chink
vocal cord
vocal cords
vocal fold
vocal folds
vocal fremitus
vocal lip
vocal minority
vocal music
vocal organ
vocal process
vocal processes
vocal resonance
vocal sac
vocal score
vocalic alliteration
vocational advisor
vocational council
vocational counselor
vocational director
vocational education
vocational guidance
vocational school
vocational therapy
vocational training
voce di petto
voce di testa
voce velata
vodka martini
vogue la galere
vogue word
voice box
voice coil
voice glide
voice glottis
voice key
voice leading
voice of conscience
voice of the tempter
voice part
voice placing
voice qualifier
voice quality
voice stop
voice tube
voice vote
voice-leading
voice-over
voiced breath
voiced sound
voiceless glide
voiceless sound
void end
void of
void of truth
void space
voided cross
voided lozenge
voir dire
voir en couleur de rose
voix celeste
voix cleste
vol-au-vent
volant piece
volar accessory ligament
volar carpal ligament
volatile alkali
volatile liniment
volatile oil
volatile salt
volcanic ash
volcanic bomb
volcanic cloud
volcanic cone
volcanic dust
volcanic glass
volcanic lake
volcanic pipe
volcanic plug
volcanic rock
volcanic tuff
volcanic water
volcanic wind
volcano fish
volitional tremor
volley fire
volt box
volt-ammeter
volt-ampere
vol-t-ampere-hour meter
volt-coulomb
volt-ohm meter
volt-ohm-milliammeter
volt-second
volta's pile
volta-
voltage amplification
voltage changer
voltage coil
voltage divider
voltage gradient
voltage indicator
voltage pulse
voltage ratio
voltage regulator
voltage relay
voltage saturation
voltage stabilizer
voltage transformer
voltage-reference tube
voltage-regulator tube
voltaic battery
voltaic cell
voltaic circuit
voltaic couple
voltaic current
voltaic electricity
voltaic pile
voltameter law
volte-face
voltmeter-milliammeter
voluble-tongued
volume color
volume control
volume density
volume displacement
volume engineer
volume indicator
volume integral
volume measure
volume measures
volume production
volume resistance
volume table
volume velocity
volume-produce
volume-produced
volumetric analysis
volumetric flask
volumetric solution
volumetric strain
voluntary affidavit
voluntary association
voluntary bankruptcy
voluntary conveyance
voluntary escape
voluntary hospital
voluntary improvement
voluntary inaction
voluntary jurisdiction
voluntary manslaughter
voluntary muscle
voluntary muscles
voluntary oath
voluntary poverty
voluntary resignation
voluntary school
voluntary waste
volunteer army
volunteer fireman
volunteer militia
volunteer navy
volunteer soldier
volunteers of america
volute centrifugal pump
volute compass
volute pump
volute spring
volutin granule
vomerine cartilage
vomic nut
vomit forth
vomit nut
vomit out
vomiting center
vomiting gas
vomito negro
von Braun
von Neumann
von Sternberg
vortex atom
vortex filament
vortex fringe
vortex line
vortex plate
vortex ring
vortex sheet
vortex theory
vortex tube
vortex wheel
vortical motion
votary candle
vote affirmatively
vote against
vote aye
vote checking
vote counter
vote down
vote for
vote in
vote in the negative
vote nay
vote negatively
vote-bringing
vote-buying
vote-casting
vote-catching
voter-preference survey
voting age
voting bond
voting booth
voting machine
voting paper
voting right
voting stock
voting trust
voting-right certificate
votive candle
votive mass
votive medal
votive offering
votive office
vouch for
vouched for
voucher check
voucher register
voucher system
vouchers payable
vousoir-shaped
vow-bound
vow-breaking
vow-keeping
vow-pledged
vowel flame
vowel gradation
vowel harmony
vowel mutation
vowel point
vowel quantity
vowel rhyme
vowel system
vows of poverty
vox angelica
vox barbara
vox caelestis
vox et praeterea nihil
vox humana
vox pop
vox populi
vox populi vox Dei
voyage policy
vrai reseau
vt fuze
vulcanite grinding wheel
vulcanite pavement
vulcanized fiber
vulcanized rubber
vulgar era
vulgar establishment
vulgar fellow
vulgar fraction
vulgar language
vulgar latin
vulgar person
vulgar purgation
vulgar substitution
vulgar taste
vulgar tongue
vulnerable place
vulnerable point
vulnerable to
vulnerant omnes ultima necat
vulpine opossum
vulture hock
vulture raven
vulture-beaked
vulture-gnawn
vulture-hocked
vulture-rent
vulture-torn
vulture-tortured
vulture-winged
vulturine eagle
vulturine guinea fowl
vulturine sea eagle
vulvo-
w will
wabble saw
waberan-leaf
wabert-leaf
wad hook
wad up
wade an
wade in
wade into
wade knee-deep in blood
wade through
wading bird
wading pool
wadmel wadmol
wafer ash
wafer bread
wafer cake
wafer capsule
wafer cutter
wafer iron
wafer paper
wafer sheet
wafer stamp
wafer tong
wafer-sealed
wafer-thin
wafer-torn
waffle cloth
waffle ingot
waffle iron
waft on the ear
wag the tongue
wag-on-the-wall
wag-tongue
wage board
wage capital
wage contract
wage control
wage earner
wage earning
wage fixing
wage freeze
wagon top
wagon track
wagon trail
wagon train
wagon tree
wagon truck
wagon vault
wagon wheel
wagon yard
wagon-headed
wagon-lit
wagon-roofed
wagon-shaped
wagon-spring clock
wagon-vaulted
wagtail flycatcher
waifs and strays
waika chewstick
wail of woe
wailing wall
wainscot chair
wainscot oak
wainscot-faced
wainscot-joined
wainscot-paneled
waist anchor
waist belt
waist board
waist boat
waist boater
waist gun blister
waist strap
waist tree
waist-deep
waist-high
waist-pressing
waist-slip
wait a minute
wait a second
wait and see
wait and see policy
wait fee
wait for
wait for something to turn up
wait impatiently
wait it out
wait on
wait on hand and foot
wait out the market
wait service
wait table
wait to see how the cat jumps
wait to see how the wind blows
wait up
wait up for
wait upon
wait with bated breath
wait-a-bit
wait-awhile
waiter on Providence
waiter-on
waiting concealed
waiting for
waiting game
waiting it out
waiting list
waiting maid
waiting man
waiting period
waiting room
waiting woman
waiver of premium
wake current
wake dirge
wake up
wake-robin
wake-up
wakeless sleep
waking dream
waking time
waldorf salad
wale knot
wale shore
walk a middle path
walk all over
walk away
walk away with
walk clerk
walk hand in hand with
walk humbly with your God
walk in darkness
walk in the shoes of
walk in your sleep
walk into
walk of life
walk off
walk off with
walk off with the game
walk on air
walk on eggshells
walk on hot coals
walk out
walk out on
walk over
walk over the course
walk the earth
walk the plank
walk the straight path
walk the tracks
walk the waters
walk up
walk-around
walk-down
walk-in
walk-in apartment
walk-in closet
walk-on
walk-over
walk-through
walk-up
walker-on
walkie-lookie
walkie-talkie
walking bass
walking beam
walking boat
walking crane
walking dead man
walking delegate
walking encyclopedia
walking engine
walking excursion
walking fern
walking fish
walking gentleman
walking lady
walking leaf
walking line
walking mort
walking papers
walking part
walking phallicus
walking pipe
walking plow
walking scow
walking skeleton
walking staff
walking stick
walking straw
walking sword
walking toad
walking tour
walking twig
walking tyrant
walking wheel
walking-out
walking-stick
walking-stick palm
walking-sticked
walky-talkies
walky-talky
wall anchor
wall arcade
wall barley
wall bars
wall bearing
wall bed
wall bee
wall box
wall bracket
wall bugloss
wall cabbage
wall cabinet
wall card
wall clamp
wall crane
wall creeper
wall cress
wall engine
wall fern
wall frame
wall fruit
wall garden
wall gecko
wall germander
wall gillyflower
wall grass
wall green
wall grenade
wall hanging
wall hawkweed
wall hold
wall hook
wall in
wall iron
wall knot
wall link
wall lizard
wall molding
wall mustard
wall of secrecy
wall off
wall painting
wall pass
wall pellitory
wall penny grass
wall pennywort
wall pepper
wall pie
wall plate
wall plug
wall pocket
wall rock
wall rocket
wall rue
wall rue spleenwort
wall saltpeter
wall socket
wall speedwell
wall spleenwort
wall street
wall telephone
wall tent
wall tower
wall up
wall wasp
wall-bound
wall-cheeked
wall-climbing
wall-defended
wall-drilling
wall-encircled
wall-eyed
wall-fed
wall-fight
wall-girt
wall-hanging
wall-inhabiting
wall-knot
wall-less
wall-like
wall-loving
wall-piece
wall-piercing
wall-plat
wall-scaling
wall-shaking
wall-sided
wall-to-wall
wall-to-wall carpet
wallaby acacia
wallaby bush
wallaby grass
wallaby-proof
walled plain
walled-in
walled-up
walleye pollack
walleye pollock
walleyed pike
wallflower brown
walling crib
walling wax
walling-in
wallow in
wallow in ignorance
wallow in the mire
wallow in wealth
wallowing in wealth
walnut blight
walnut borer
walnut brown
walnut case-bearer
walnut caterpillar
walnut curculio
walnut family
walnut juice
walnut moth
walnut oil
walnut scale
walnut shell
walnut spanworm
walnut sphinx
walnut tree
walnut weevil
walnut worm
walnut-brown
walnut-finished
walnut-framed
walnut-inlaid
walnut-paneled
walnut-shell
walnut-stained
walnut-trimmed
walpurgis night
walrus bird
walrus moustache
walrus mustache
waltz Matilda
waltz measure
waltz off with
waltz song
waltz time
waltzing Matilda
waltzing mouse
wamble-cropped
wamper-jawed
wampum belt
wampum snake
wan-
wan-cheeked
wan-colored
wan-worn
wand bearer
wand of office
wand shoot
wand shooting
wand shot
wand-bearing
wand-shaped
wand-waving
wander from
wander from the subject
wander termite
wander-year
wandering Jew
wandering albatross
wandering ant
wandering cell
wandering course
wandering dervish
wandering dune
wandering electron
wandering jenny
wandering jew
wandering minstrel
wandering path
wandering scholar
wandering soul
wandering star
wandering tattler
wane cloud
wangle into
wangle out of
waning crescent moon
waning moon
wankel engine
want ad
want doing
want in
want in the worst way
want list
want to
want to know
want with all your heart
want-wit
wantage rod
wanted-right-hand
wanting to fly in the air
wanton cruelty
wanton ringlets wav'd
wanton-cruel
wanton-eyed
wanton-mad
wanton-sick
wanton-tongued
wanton-winged
wapper-eyed
wapper-jawed
war baby
war bag
war bird
war bond
war bonnet
war book
war boom
war boomerang
war bow
war bride
war cabinet
war cart
war cheat
war chest
war cloud
war clouds
war club
war college
war correspondent
war crime
war crimes
war criminal
war cross
war cry
war dance
war debt
war dog
war drum
war eagle
war economy
war flame
war footing
war galley
war game
war gas
war god
war goddess
war gods
war guilt
war hammer
war hat
war hawk
war head
war horse
war hound
war lord
war machine
war medal
war memorial
war neurosis
war of attrition
war of independence
war of movement
war of national liberation
war of nerves
war of position
war of the elements
war of words
war office
war paint
war party
war plans
war power
war proof
war rebel
war risk
war risk insurance
war rocket
war scare
war school
war scythe
war service chevron
war song
war spirit
war stamp
war surplus
war to end war
war traitor
war vessel
war whoop
war zone
war-apparelled
war-blasted
war-breathing
war-breeding
war-broken
war-denouncing
war-dight
war-disabled
war-dreading
war-fain
war-famed
war-god
war-goddess
war-hawk
war-horse
war-savings certificate
war-savings stamp
war-tax stamp
war-time
war-weary
war-whoop
war-wolf
warble fly
warbler green
warbling vireo
ward heeler
ward hill
ward of the state
ward off
ward politics
ward-walk
warden court
warden pie
wardian case
warding file
wardmote court
wardmote quest
wardour-street
wardrobe bed
wardrobe case
wardrobe dealer
wardrobe trunk
 ware cleaner
 ware goose
 ware grinder
 ware sorter
 warehouse bond
 warehouse boy
 warehouse clerk
 warehouse foreman
 warehouse receipt
 warehouse sorter
 warehouse truck
 warlike spirit
 warm as toast
 warm assent
 warm body
 warm color
 warm friend
 warm friendship
 warm front
 warm heart
 warm imagination
 warm man
 warm over
 warm sector
 warm spot
 warm spring
 warm temper
 warm the bency
 warm the blood
 warm the cockles of the heart
 warm the spirits
 warm up
 warm weather
 warm welcome
 warm work
 warm-backed
warm-blooded
warm-breathed
warm-clad
warm-colored
warm-complexioned
warm-contested
warm-glowing
warm-headed
warm-hearted
warm-kept
warm-lying
warm-reeking
warm-sheltered
warm-tempered
warm-tinted
warm-up
warm-working
warm-wrapped
warmed over
warmed up
warmed-over
warmed-over cabbage
warmed-up
warming house
warming pad
warming pan
warming-pan
warming-up
warminster broom
warmth of color
warmth of feeling
warmth of heart
warn against
warning coloration
warning lever
warning piece
warning sign
warning signal
warp and weft
warp and woof
warp beam
warp frame
warp knit
warp knitting
warp lace
warp land
warp net
warp roll
wash down
wash drawing
wash gilding
wash goods
wash leather
wash mill
wash miller
wash oil
wash out
wash pitcher
wash sale
wash sales
wash strake
wash up
wash water
wash your dirty linen in public
wash your hands of
wash your sins away
wash-and-wear
wash-and-wear fabric
wash-bear
wash-colored
wash-hand
wash-house
wash-in
wash-leather
wash-mouth
wash-out
wash-pot
wash-up
washable paint
washboard road
washed metal
washed out
washed sale
washed up
washed-out
washed-up
washing bear
washing bottle
washing crystal
washing engine
washing equipment
washing machine
washing maid
washing out
washing pot
washing powder
waste the precious hours
waste time
waste time in regret
waste waste
waste well
waste your breath
waste-cleaning
waste-dwelling
waste-heat boiler
waste-heat drier
waste-paper
waste-thrift
waste-wax process
wasted away
wasted loins
wastepaper basket
wastes of outer space
wasting asset
wasting away
wasting disease
wasting palsy
watch adjuster
watch and wait
watch and ward
watch bell
watch bracelet
watch cap
watch chain
watch cleaner
watch coat
watch crystal
watch fire
watch fob
watch for
watch for your moment
watch glass
watch guard
watch it
watch meeting
watch movement
watch night
watch officer
watch out
watch out for
watch over
watch pocket
watch repairer
watch screw thread
watch spring
watch tackle
watch television
watch your step
watch your weight
watch-glass
watch-making
watch-night service
watchet-colored
watchful eye
watchful waiting
watching and waiting
watching brief
watching for
watching rate
watchman beetle
watchman's clock
watchman's rattle
water adder
water agrimony
water aloe
water arum
water avens
water awlwort
water back
water bag
water ballet
water bath
water bear
water bearer
water bed
water beetle
water bench
water bewitched
water bird
water biscuit
water blister
water bloom
water blue
water boat
water boatman
water bog rush
water bomb
water bottle
water bouget
water boy
water brash
water breather
water budget
water buffalo
water bug
water butt
water caltrop
water cannon
water carrier
water channel
water chestnut
water chinquapin
water clock
water closet
water color
water conservation
water cooler
water crake
water cress
water crowfoot
water cure
water cycle
water diviner
water dog
water down
water dropwort
water farmer
water fern
water fever
water flag
water flea
water flow
water fountain
water foxtail
water frame
water frontage
water furrow
water gap
water gas
water gate
water gauge
water gilder
water gilding
water glass
water god
water gods
water grass
water gum
water gun
water hair grass
water hammer
water hawthorn
water heater
water hemlock
water hen
water hole
water holly
water horehound
water hyacinth
water ice
water jacket
water jump
water kelpie
water leaf
water lemon
water lettuce
water level
water light
water lily
water lily tulip
water line
water locust
water loss
water main
water marigold
water meadow
water meadow grass
water meter
water milfoil
water mill
water mink
water mint
water moccasin
water mold
water motor
water nymph
water oak
water oat
water oats
water of ayr
water of crystallization
water of hydration
water of life
water off a duck's back
water oleander
water opossum
water ouzel
water oven
water ox
water paint
water parting
water pepper
water pimpernel
water pipe
water pipit
water pistol
water plantain
water platter
water plug
water poa
water pocket
water polo
water poppy
water power
water pox
water pump
water pumper
water purslane
water rail
water rat
water reed
water rice
water right
water sapphire
water scorpion
water set
water shield
water shrew
water skater
water ski
water sky
water slide
water smoke
water snail
water snake
water snowflake
water softener
water soldier
water sound
water spaniel
water spider
water spirit
water spot
water sprite
water sprout
water starwort
water-ice
water-inch
water-jacket
water-jacketing
water-jelly
water-jet
water-laid
water-lane
water-level
water-lily
water-lily family
water-lily tree
water-line
water-line model
water-lined
water-living
water-logged
water-loving
water-mark
water-meadow
water-measure
water-melon
water-milfoil family
water-mill
water-mint
water-nut family
water-nymph
water-packed
water-pipe
water-plantain family
water-pot
water-power engineering
water-pumping
water-purpie
water-quenched
water-rat
water-repellant
water-repellent
water-resistant
water-ret
water-rolled
water-rot
water-seal
water-sealed
water-season
water-shield family
water-shot
water-sick
waterproofing salt
waters of Lethe
waters of bitterness
waters of oblivion
watertight integrity
watertube boiler
watery grave
watery-colored
watery-eyed
watery-headed
watt current
watt-hour
watt-hour meter
watt-second
wattle and dab
wattle and daub
wattle bark
wattle crow
wattled bee eater
wattled crow
wattled honey eater
wattled lapwing
wattled stare
wattless current
wave a flag
wave a wand
wave antenna
wave band
wave changer
wave cyclone
wave down
wave drag
wave equation
wave form
wave front
wave function
wave guide
wave mechanics
wave molding
wave motion
wave number
wave phenomenon
wave scroll
wave surface
wave system
wave telegraphy
wave telephony
wave the arms
wave the bloody shirt
wave the hand
wave the white flag
wave theory
wave top
wave train
wave trap
wave wheel
wave winding
wave-cut
wave-cut platform
wave-encircled
wave-form
wave-form theory
wave-green
wave-haired
wave-hollowed
wave-lashed
wave-laved
wave-like
wave-line
wave-making
wave-moist
wavering flame
wavering light
waving of the bloody shirt
wavy-coated
wavy-edged
wavy-grained
wavy-haired
wavy-leaved
wavy-toothed
waw consecutive
waw conversive
waw-waw
wax and wane
wax bean
wax bleacher
wax brown
wax candle
wax cloth
wax cluster
wax end
wax figure
wax flower
wax gland
wax gourd
wax insect
wax jack
wax light
wax modeler
wax modeling
wax moth
wax myrtle
wax palm
wax paper
wax pink
wax privet
wax tablet
wax tree
wax worm
wax-bearing
wax-billed
wax-chandler
wax-coated
wax-colored
wax-composed
wax-covered
wax-ended
wax-erected
wax-extracting
wax-featured
wax-finished
wax-forming
wax-headed
wax-jointed
wax-lighted
wax-polished
wax-producing
wax-red
wax-rubbed
wax-secreting
wax-shot
wax-stitched
wax-tipped
wax-topped
wax-white
wax-yellow
waxed paper
waxed tablet
waxing crescent moon
waxing moon
way back
way baggage
way beam
way bennet
way bent
way car
way chain
way enough
way freight
way in
way of dealing
way of escape
way of holding yourself
way of life
way of looking at things
way of putting
way of saying
way of seeing
way of speaking
way of the cross
way of thinking
way of understanding
way of walking
way off
way out
way passenger
way point
way shaft
way station
way thistle
way ticket
way train
way wire
way-beguiling
way-bill
way-clearing
way-down
way-god
way-haunting
way-off
way-out
way-up
way-weary
way-wise
way-wiser
way-worn
wayfaring tree
wayfaring-tree
waygoing crop
wayleave rent
ways and means
ways of the fathers
wayside cross
we happy few
we’ll see you
we-all
we-group
we-ship
we-uns
weak accumulation poi
weak as a baby
weak as a chicken
weak as a child
weak as a drink of water
weak as a kitten
weak as a mouse
weak as a rained-on bee
weak as milk and water
weak as water
weak derived set
weak ego
weak ending
weak in the upper story
weak interaction
weak knees
weak link
weak market
weak personality
weak point
weak side
weak sister
weak soul
weak stress
weak tool
weak will
weak-ankled
weak-armed
weak-backed
weak-bodied
weak-built
weak-chested
weak-chined
weak-chinned
weak-eyed
weak-fibered
weak-headed
weak-headedly
weak-headedness
weak-hinged
weak-jawed
weak-kneed
weak-kneedly
weak-kneedness
weak-legged
weak-limbed
weak-lunged
weak-minded
weak-mindedly
weak-mindedness
weak-nerved
weak-pated
weak-spirited
weak-spiritedly
weak-spiritedness
weak-stemmed
weak-stomached
weak-toned
weak-voiced
weak-willed
weak-winged
weakengrow weak
weaker sex
weaker vessel
weakness comparisons
weakness of the flesh
wealth tax
wealth-encumbered
wealth-fraught
wealth-getting
wealth-yielding
wealthy man
wean from
wean your thoughts from
wean yourself from
weaning brash
weapons of mass destruction
wear a hairshirt
wear a mask
wear an earnest frown
wear and tear
wear away
wear back
wear blinkers
wear down
wear horns
wear iron
wear land
wear limit gauge
wear mourning
wear off
wear on
wear out
wear out your welcome
wear ragged
wear sackcloth
wear sackcloth and ashes
wear ship
wear short
wear the cloth
wear the crown
wear the horn
wear the look of
wear the pants
wear the uniform
wear thin
wear upon
wear upon one
wear well
wear you down
wear your heart on your sleeve
wear your heart upon your sleeve
wear-out
wearer of the cap and bells
weariness of life
wearing a hairshirt
wearing a sackcloth
wearing a sackcloth and ashes
wearing apparel
wearing arms
wearing away
wearing course
wearing down
wearisome sameness
wearisome trip
weary for
weary of life
weary to death
weary unto death
weary waste
weary-foot
weary-footed
weary-laden
weary-looking
weary-winged
weary-worn
weasel cat
weasel coot
weasel lemur
weasel out
weasel spider
weasel word
weasel words
weasel-faced
weasel-worded
weather anchor
weather back
weather balloon
weather bow
weather box
weather breeder
weather bureau
weather cast
weather caster
weather chart
weather cloth
weather deck
weather eye
weather forecast
weather forecaster
weather front
weather gall
weather gauge
weather helm
weather house
weather instrument
weather joint
weather map
weather out
weather prophet
weather rail
weather reconnaissance
weather reconnaissance plane
weather report
weather roll
weather satellite
weather science
weather scientist
weather sheet
weather ship
weather side
weather signal
weather slating
weather stain
weather station
weather strip
weather stripping
weather tack
weather the storm
weather tide
weather vane
weather wheel
weather wisdom
weather-battered
weather-beaten
weather-bitt
weather-bitten
weather-bound
weather-breeding
weather-driven
weather-eaten
weather-eye
weather-fagged
weather-fast
weather-fend
weather-free
weather-glass
weather-going tide
weather-guard
weather-hardened
weather-headed
weather-reporting network
weather-scarred
weather-slated
weather-stayed
weather-strip
weather-striped
weather-stripping
weather-tanned
weather-wasted
weather-wise
weatherboard house
weathered joint
weathered oak
weave bead
weave peace between
weave your way
weaver finch
weaver shell
weaver's hitch
weaver's knot
weazen-faced
web foot
web frame
web glazing
web lead
web maker
web member
web of intrigue
web perfecting press
web press
web printing
web saw
web spinner
web stiffener
web wheel
web-beam
web-fed
web-fed press
web-fingered
web-foot
web-footed
web-footedness
web-glazed
web-perfecting
web-toed
web-winged
web-worked
webbing moth
weber turn
wedded bliss
wedded pair
wedded state
wedded status
wedded to
wedded to poverty
wedded wife
wedding anniversary
wedding attendant
wedding breakfast
wedding cake
wedding canopy
wedding chest
wedding clothes
wedding day
wedding dinner
wedding flower
wedding gown
wedding guest
wedding journey
wedding knot
wedding march
wedding party
wedding ring
wedding sheet
wedding song
wedding veil
wedge bone
wedge character
wedge gauge
wedge gearing
wedge heel
wedge in
wedge-bearing
wedge-billed
wedge-form
wedge-formed
wedge-shaped
wedge-tailed
wedge-tailed dove
wedge-tailed eagle
wedge-tailed gull
wedge-tailed shearwater
wedged-tailed
wedging crib
wee bit
wee doch-an-dorrach
wee folk
wee tot
wee- wee
weed killer
weed out
weed tree
weed-choked
weed-cutting
weed-entwined
weed-fringed
weed-grown
weed-hidden
weed-hook
weed-hung
weed-killer
weed-killing
weed-ridden
weed-spoiled
weeded out
weeder clips
weeder hoe
weedy-bearded
weight scales
weigh upon
weigh with
weigh you down
weigh your words
weigh-bridge
weigh-in
weigh-out
weigh-scale
weighbar shaft
weighed down
weighed upon
weighing down
weighing instrument
weighing instruments
weighing machine
weighing-in
weighing-out
weight cloth
weight control
weight density
weight down
weight down with
weight down with ornament
weight lifter
weight lifting
weight playing
weight voltameter
weight watcher
weight-bearing
weight-carrying
weight-lifting
weight-measuring
weight-raising
weight-resisting
weight-watch
weight-watching
weighted down
weighting down
weir basin
weir box
weird sisters
weird-fixed
weird-looking
weird-set
weiss beer
welch plug
welcome as the roses in May
welcome mat
welcome release
welcome wagon
weld metal
welder's mask
welding blowpipe
welding engineer
welding powder
welding rod
welding torch
welfare aid
welfare capitalism
welfare cases
welfare client
welfare clients
welfare families
welfare payments
welfare program
welfare rolls
welfare state
welfare stater
welfare statism
welfare statist
welfare work
welfare worker
welkin eye
welkin-high
well I never
well I never!
well afford
well and good
well boat
well borer
well casing
well cress
well decker
well done
well driller
well drilling
well enough
well fern
well house
well in
well in hand
well log
well met
well off
well out
well out of
well over
well provided for
well rig
well room
well shrimp
well sinker
well smack
well staircase
well sweep
well to do in the world
well to live
well to pass
well tomb
well trap
well turned-out
well up on
well vessel
well water
well worship
well worth the money
well-able
well-abolished
well-abounding
well-absorbed
well-abused
well-accented
well-accentuated
well-accepted
well-accommodated
well-accompanied
well-accomplished
well-accorded
well-according
well-accoutered
well-accredited
well-accumulated
well-accustomed
well-achieved
well-acknowledged
well-acquainted
well-acquired
well-acted
well-adapted
well-addicted
well-addressed
well-adjusted
well-administered
well-admitted
well-adopted
well-adorned
well-advanced
well-adventured
well-advertised
well-advertized
well-advised
well-advocated
well-affected
well-affectedness
well-affectioned
well-affirmed
well-afforded
well-aged
well-agreed
well-agreeing
well-aimed
well-aired
well-alleged
well-allied
well-allotted
well-allowed
well-alphabetized
well-altered
well-amended
well-amused
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well-analyzed
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well-anchored
well-anear
well-ankled
well-annealed
well-annotated
well-announced
well-anointed
well-answered
well-anticipated
well-apparled
well-apparelled
well-appearing
well-applauded
well-applied
well-appointed
well-appointedly
well-appointedness
well-appreciated
well-approached
well-appropriated
well-approved
well-arbitrated
well-arched
well-argued
well-armed
well-armored
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well-aroused
well-arranged
well-arrayed
well-articulated
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well-assembled
well-asserted
well-assessed
well-assigned
well-assimilated
well-assisted
well-associated
well-assorted
well-assumed
well-assured
well-attached
well-attained
well-attempered
well-attempted
well-attended
well-attending
well-attested
well-attired
well-attributed
well-audited
well-authenticated
well-authorized
well-averaged
well-avoided
well-awakened
well-awarded
well-aware
well-baby clinic
well-backed
well-baked
well-balanced
well-balanced mind
well-baled
well-bandaged
well-bang  
well-banked  
well-barbered  
well-bargained  
well-base rim  
well-based  
well-bathed  
well-batted  
well-bearing  
well-beaten  
well-becoming  
well-bedded  
well-befitting  
well-begotten  
well-begun  
well-behated  
well-behaved  
well-being  
well-beknown  
well-believed  
well-believing  
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well-beneficed  
well-bent  
well-beseemingly  
well-bespoken  
well-bested  
well-bestowed  
well-blacked  
well-blended  
well-blent  
well-blessed  
well-blooded  
well-blown  
well-bodied  
well-boding  
well-boiled  
well-bonded  
well-boned  
well-booted  
well-bored  
well-boring  
well-born  
well-borne  
well-bottled  
well-bottomed  
well-bought  
well-bound
well-bowled
well-boxed
well-braced
well-braided
well-branched
well-branded
well-brawned
well-breasted
well-breathed
well-bred
well-bredness
well-brewed
well-bricked
well-bridged
well-broken
well-brooked
well-brought-up
well-browed
well-browned
well-brushed
well-built
well-buried
well-burned
well-burnished
well-burnt
well-bushed
well-busied
well-buttoned
well-caked
well-calculated
well-calculating
well-calked
well-called
well-calved
well-camouflaged
well-caned
well-canned
well-canvassed
well-cared-for
well-carpeted
well-carved
well-cased
well-cast
well-caught
well-cautioned
well-celebrated
well-cemented
well-censured
well-centered
well-centred
well-certified
well-chained
well-changed
well-chaperoned
well-characterized
well-charged
well-charted
well-chauffeured
well-checked
well-cheered
well-cherished
well-chested
well-chewed
well-chilled
well-choosing
well-chopped
well-chosen
well-chosen moment
well-churned
well-circularized
well-circulated
well-circumstanced
well-civilized
well-clad
well-classed
well-classified
well-cleansed
well-cleared
well-climaxed
well-cloaked
well-cloistered
well-closed
well-closing
well-clothed
well-coached
well-coated
well-coined
well-collected
well-colonized
well-colored
well-coloured
well-combed
well-combined
well-commanded
well-commenced
well-commended
well-cooked
well-cooled
well-coordinated
well-copied
well-corked
well-corrected
well-corseted
well-counseled
well-counselled
well-counted
well-counterfeited
well-coupled
well-courted
well-covered
well-cowed
well-crammed
well-crated
well-credited
well-cress
well-crested
well-criticized
well-crocheted
well-cropped
well-crossed
well-crushed
well-cultivated
well-cultured
well-curbed
well-cured
well-curled
well-curried
well-curved
well-cushioned
well-cut
well-cutting
well-damped
well-danced
well-darkened
well-darned
well-dealing
well-dealt
well-debated
well-deceived
well-decided
well-deck
well-decked
well-declaimed
well-decorated
well-decreed
well-deeded
well-deemed
well-defended
well-deferred
well-delayed
well-deliberated
well-delineated
well-delivered
well-demeaned
well-demonstrated
well-denied
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well-derived
well-descended
well-described
well-deserved
well-deserved punishment
well-deservedly
well-deserver
well-deserving
well-deservingness
well-designated
well-designed
well-designing
well-desired
well-destroyed
well-developed
well-devised
well-diagnosed
well-diffused
well-digested
well-directed
well-disbursed
well-disciplined
well-discounted
well-discussed
well-disguised
well-dish
well-dispersed
well-displayed
well-disposed
well-disposedly
well-disposedness
well-dispositioned
well-disputed
well-dissected
well-dissembled
well-dissipated
well-distanced
well-distinguished
well-distributed
well-diversified
well-divided
well-divined
well-documented
well-doer
well-doing
well-domesticated
well-dominated
well-done
well-dosed
well-drafted
well-drain
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well-dramatized
well-drawn
well-dressed
well-dried
well-drilled
well-driven
well-drugged
well-dunged
well-dusted
well-dying
well-eared
well-earned
well-earthed
well-eased
well-economized
well-edited
well-educated
well-effect
well-elevated
well-eliminated
well-embodied
well-emphasized
well-employed
well-enacted
well-enchanting
well-encountered
well-encouraged
well-ended
well-endorsed
well-endowed
well-enforced
well-engineered
well-engraved
well-enlightened
well-entered
well-entertained
well-entitled
well-enumerated
well-enveloped
well-equipped
well-erected
well-escorted
well-essayed
well-established
well-esteemed
well-estimated
well-evidence
well-evidenced
well-examined
well-executed
well-exemplified
well-exercised
well-exerted
well-exhibited
well-expended
well-experienced
well-explained
well-explicated
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well-exposed
well-expressed
well-fabricated
well-faced
well-faded
well-famed
well-fancied
well-farmed
well-fashionened
well-fastened
well-fatted
well-favored
well-favoredly
well-favoredness
well-favoured
well-favouredness
well-feasted
well-feathered
well-featured
well-fed
well-feed
well-feigned
well-felt
well-fenced
well-fended
well-fermented
well-fielded
well-filed
well-filled
well-filmed
well-filtered
well-financed
well-fined
well-finished
well-fitted
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well-flavoured
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well-floored
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well-folded
well-followed
well-fooled
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well-forewarning
well-forged
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well-fortified
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well-found
well-founded
well-foundedly
well-foundedness
well-framed
well-fraught
well-freckled
well-freighted
well-frequented
well-fried
well-friend ed
well-frightened
well-fruited
well-fueled
well-fuelled
well-functioning
well-furnished
well-furnishedness
well-furred
well-gained
well-gaited
well-gardened
well-garmented
well-garnished
well-gathered
well-geared
well-generated
well-gifted
well-girt
well-glossed
well-gloved
well-glued
well-going
well-gotten
well-governed
well-gowned
well-graced
well-graded
well-grained
well-grassed
well-gratified
well-graveled
well-gravelled
well-graven
well-greased
well-greaved
well-greeted
well-groomed
well-groomedness
well-grounded
well-grounded hope
well-grouped
well-grown
well-guaranteed
well-guarded
well-guessed
well-guided
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well-guyed
well-hained
well-haired
well-hallowed
well-hammered
well-handicapped
well-handled
well-hardened
well-harnessed
well-hatched
well-havened
well-hazarded
well-head
well-headed
well-healed
well-heard
well-hearted
well-heated
well-hedged
well-heeled
well-helped
well-hemmed
well-hewn
well-hidden
well-hinged
well-hit
well-hoarded
well-hole
well-holed
well-hoofed
well-hooped
well-horned
well-horsed
well-housed
well-hued
well-humbled
well-humbugged
well-humored
well-humoured
well-hung
well-husbanded
well-iced
well-identified
well-ignored
well-illustrated
well-imagined
well-imitated
well-immersed
well-implied
well-imposed
well-impressed
well-improved
well-improvised
well-inaugurated
well-inclined
well-included
well-incurred
well-indexed
well-indicated
well-inferred
well-informed
well-inhabited
well-initiated
well-inscribed
well-inspected
well-installed
well-instance
well-instituted
well-instructed
well-insulated
well-insured
well-integrated
well-intended
well-intentioned
well-interested
well-interpreted
well-interviewed
well-introduced
well-invented
well-invested
well-investigated
well-ironed
well-irrigated
well-itemized
well-joined
well-jointed
well-judged
well-judging
well-judgingly
well-justified
well-kempt
well-kenned
well-kent
well-kept
well-kindled
well-knit
well-knitted
well-knotted
well-knowing
well-knowledged
well-known
well-known fact
well-labeled
well-labored
well-laboring
well-laboured
well-laced
well-laden
well-laid
well-language
well-larded
well-launched
well-laundered
well-leaded
well-learned
well-leased
well-leaved
well-led
well-left
well-lent
well-less
well-lettered
well-leveled
well-levelled
well-levied
well-lighted
well-like
well-liked
well-liking
well-limbed
well-limited
well-limned
well-lined
well-lined purse
well-linked
well-lit
well-liveried
well-living
well-loaded
well-located
well-locked
well-lodged
well-lofted
well-looked
well-looking
well-lost
well-loved
well-lunged
well-made
well-made play
well-maintained
well-managed
well-manned
well-mannered
well-manufactured
well-manured
well-mapped
well-marked
well-marketed
well-married
well-marshalled
well-masked
well-mastered
well-matched
well-mated
well-matured
well-meaner
well-meaning
well-meaningly
well-meaningness
well-meant
well-measured
well-membered
well-mended
well-merited
well-met
well-metalled
well-methodized
well-mettled
well-milked
well-mingled
well-minted
well-mixed
well-modeled
well-modified
well-modulated
well-moduled
well-moneyed
well-moralized
well-motivated
well-motived
well-moulded
well-mounted
well-mouthed
well-named
well-narrated
well-natured
well-naturedness
well-navigated
well-near
well-necked
well-needed
well-negotiated
well-neighbored
well-nicknamed
well-nigh
well-nosed
well-noted
well-nourished
well-nursed
well-nurtured
well-oared
well-obeyed
well-observed
well-occupied
well-off
well-officered
well-oiled
well-omened
well-omitted
well-operated
well-opinioned
well-ordered
well-ordered set
well-ordering theorem
well-organised
well-organized
well-oriented
well-ornamented
well-ossified
well-outlined
well-overseen
well-packed
well-paid
well-painted
well-paired
well-paneled
well-paragraphed
well-parceled
well-parked
well-past
well-patched
well-patrolled
well-patronised
well-patronized
well-paved
well-paying
well-penned
well-pensioned
well-peopled
well-perceived
well-perfected
well-performed
well-persuaded
well-philosophized
well-photographed
well-picked
well-pictured
well-piloted
well-pitched
well-placed
well-planned
well-planted
well-played
well-plead
well-pleased
well-pleasedly
well-pleasedness
well-pleasing
well-pleasingness
well-plenished
well-plotted
well-plowed
well-plucked
well-plumaged
well-plumed
well-pointed
well-policed
well-policied
well-polished
well-poll ed
well-pondered
well-posed
well-positioned
well-possessed
well-posted
well-postponed
well-practiced
well-predicted
well-prepared
well-preserved
well-pressed
well-pretended
well-priced
well-primed
well-principled
well-printed
well-prized
well-professed
well-prolonged
well-pronounced
well-prophesied
well-proportioned
well-prosecuted
well-protected
well-proved
well-proven
well-provendered
well-provided
well-published
well-punished
well-pursed
well-pushed
well-put
well-puzzled
well-qualified
well-qualitied
well-quartered
well-quizzed
well-raised
well-ranged
well-rated
well-read
well-read in
well-readied
well-reared
well-reasoned
well-received
well-recited
well-reckoned
well-recognised
well-recognized
well-recommended
well-recorded
well-recovered
well-refereed
well-referred
well-refined
well-reflected
well-reformed
well-refreshed
well-refreshing
well-regarded
well-regulated
well-regulated mind
well-rehearsed
well-relished
well-relishing
well-remarked
well-remembered
well-rendered
well-rented
well-repaid
well-repaired
well-replaced
well-replenished
well-reported
well-represented
well-reprinted
well-reputed
well-requited
well-resolved
well-resounding
well-respected
well-rested
well-restored
well-revenged
well-reviewed
well-revised
well-rewarded
well-rhymed
well-ribbed
well-ridden
well-rigged
well-ringed
well-ripened
well-risen
well-risked
well-roasted
well-rode
well-rolled
well-roofed
well-rooted
well-roped
well-rotted
well-rounded
well-rounded periods
well-routed
well-rowed
well-rubbed
well-ruled
well-ruling
well-run
well-running
well-sacrificed
well-saffroned
well-sailing
well-salted
well-sanctioned
well-sanded
well-satisfied
well-saved
well-savoring
well-saying
well-scared
well-scattered
well-scented
well-scheduled
well-schemed
well-schooled
well-scolded
well-scorched
well-scored
well-screened
well-scrubbed
well-sealed
well-searched
well-seasoned
well-seated
well-secluded
well-secured
well-seeded
well-seeing
well-seeming
well-seen
well-selected
well-selling
well-sensed
well-separated
well-served
well-set
well-set-up
well-settled
well-sewn
well-shaded
well-shading
well-shafted
well-shaken
well-shaped
well-shapen
well-sharpened
well-shaved
well-shaven
well-sheltered
well-shod
well-shot
well-showered
well-shown
well-sifted
well-sighted
well-simulated
well-sinewed
well-sinking
well-situated
well-sized
well-sketched
well-skilled
well-skinned
well-smelling
well-smoked
well-soaked
well-sold
well-soled
well-solved
well-sorted
well-sounding
well-spaced
well-speaking
well-sped
well-spent
well-supplied
well-supported
well-suppressed
well-sustained
well-swelled
well-swollen
well-systematised
well-systematized
well-tailored
well-taken
well-tamed
well-tanned
well-tasted
well-taught
well-taxed
well-tempered
well-tenanted
well-tended
well-terraced
well-tested
well-thewed
well-thought
well-thought-of
well-thought-out
well-threshened
well-thriven
well-thrown
well-thumbed
well-tied
well-tilled
well-timbered
well-timed
well-timed opportunity
well-tinted
well-to-do
well-toasted
well-told
well-toned
well-tongued
well-toothed
well-tossessed
well-traced
well-traded
well-trained
well-translated
well-trapped
well-traveled
well-travelled
well-treated
well-tricked
well-tried
well-trimmed
well-trod
well-trodden
well-trunked
well-trussed
well-trusted
well-tuned
well-turned
well-turned periods
well-turned-out
well-tutored
well-twisted
well-typed
well-umpired
well-understood
well-uniformed
well-united
well-upholstered
well-urged
well-used
well-utilized
well-valeted
well-varied
well-varnished
well-veiled
well-ventilated
well-ventured
well-verified
well-versed
well-visualised
well-visualized
well-voiced
well-vouched
well-walled
well-wared
well-warmed
well-warned
well-warranted
well-washed
well-watched
well-watered
well-weaponed
well-wearing
well-weaved
well-weaving
were-animal
were-animals
were-ass
west Greenland current
west by north
west by south
west coast fir
west coast hemlock
west country
west end
west germanic
west highland
west india
west indian
west indies
west saxon
west wind
west wind drift
west-by
west-central
west-ender
west-endism
west-endy
west-faced
west-facing
west-going
west-india man
west-north-west
west-northwest
west-northwesterly
west-northwestward
west-south-west
west-southwest
west-southwesterly
west-southwestward
west-southwestwardly
west-turning
west-winded
west-windy
western diamondback rattlesnake
western frame
western hemisphere
western hemlock
western juniper
western mountain ash
western omelet
western paper birch
wet-cheeked
wet-clean
wet-eyed
wet-footed
wet-lipped
wet-my-lip
wet-nurse
wet-nursed
wet-nursing
wet-pipe
wet-pipe system
wet-plate
wet-plate process
wet-process machine
wet-salt
wet-season
wet-shod
wet-worked
wether wool
wetlands conservation
wetness fraction
wetter-off
wetting agent
wetting down
wetting-out agent
wh-movement
whack down
whack off
whack up
whale barnacle
whale catcher
whale feed
whale fin
whale fisher
whale fisherman
whale fishery
whale fishing
whale food
whale iron
whale line
whale louse
whale of a difference
whale oil
whale shark
whale-backed
whale-built
whale-gig
whale-headed
whale-hunting
whale-mouthed
whale-tailed
whalebone tree
whalebone whale
whaling fleet
whaling gun
whaling master
whaling port
whaling rocket
whare-kura
whare-puni
whare-wananga
wharf boat
wharf dues
wharf duty
wharf end
wharf fee
wharf fish
wharf hand
wharf laborer
wharf lumper
wharf monkey
wharf owner
wharf rat
wharf spike
wharf worker
what a life
what are the odds
what bodes
what boots it
what can be done
what can be seen
what can never be
what cannot be
what cannot happen
what do I care
what do you know
what do you know about that
what does it matter
what else is new
what for
what goes up must come down
what happens
what have you
what if
what in the world
what is coming to one
what is coming to you
what is comprised
what is condign
what is contained
what is destined
what is done
what is doomed
what is due
what is fated
what is in the books
what is included
what is merited
what is owing
what is possible
what is proper
what is revealed
what is right
what is to be
what is to come
what it is about
what it takes
what looms
what makes it tick
what makes you tick
what matter
what may be
what might be
what must not be
what of it
what on earth
what ought not be
what ought to be
what ought to be done
what should be
what should not be
what the hell
what time
what will be will be
what you are about
what you are doing
what you are responsible for
what you are worth
what you can call your own
what you can do
what you have coming
what you have earned
what you have to your name
what you may fairly call
wheat cake
wheat chafer
wheat cutworm
wheat duck
wheat eel
wheat eelworm
wheat farmer
wheat field
wheat fly
wheat from the chaff
wheat gallfly
wheat germ
wheat grass
wheat jointworm
wheat louse
wheat maggot
wheat meal
wheat midge
wheat mildew
wheat mite
wheat mosaic
wheat moth
wheat pest
wheat pit
wheat plant louse
wheat rosette
wheat rust
wheat sawfly
wheat scab
wheat seed
wheat sheaf
wheat smut
wheat stem
wheat stem rust
wheat thief
wheat thrips
wheat weevil
wheat weigher
wheat-blossoming
wheat-colored
wheat-fed
wheat-growing
wheat-head army worm
wheat-hid
wheat-producing
wheat-raising
wheat-rich
wheat-stem maggot
wheat-stem sawfly
wheat-straw
wheatear cockle
wheatsel bird
wheatstone bridge
wheel about
wheel and axle
wheel and deal
wheel animal
wheel animalcule
wheel around
wheel back
wheel barometer
wheel base
wheel bearer
wheel bug
wheel case
wheel chain
wheel chair
wheel colter
wheel control
wheel cowlings
wheel cross
wheel cultivator
wheel excavator
wheel fitter
wheel governor
wheel hoe
wheel horse
wheel lathe
wheel load
wheel load weigher
wheel lock
wheel maker
wheel man
wheel map
wheel money
wheel of chance
wheel of fortune
wheel ore
wheel organ
wheel parts
wheel pen
wheel pit
wheel plate
wheel plow
wheel rod
wheel rope
wheel scraper
wheel static
wheel stitch
wheel tracery
wheel trap
wheel tree
wheel trolley
wheel welder
wheel window
wheel-backed
wheel-barrower
wheel-broad
wheel-cut
wheel-cutting
wheel-footed
wheel-going
wheel-made
wheel-marked
wheel-mounted
wheel-resembling
wheel-shaped
wheel-smashed
wheel-spun
wheel-supported
wheel-track
wheel-turned
wheel-turning
wheel-worn
wheelbarrow race
wheeler and dealer
wheeler-dealer
wheeling and dealing
wheels within wheels
whelk tingle
whelk-shaped
when all is said and done
when as
when day is done
when hell freezes over
when in Rome do as the Romans do
when issued
when it is handy
when the chips are down
when the mood strikes
when the spirit moves
when you get around to it
when you have a minute to spare
when you have the time
when your ship comes in
when-issued
whenever you like
whenever you wish
where it's at
where the earth meets the sky
where the shoe pinches
where the sun beats
where the sun rises
where you are
where you live
where you reside
where you sit
where you stand
wherefore, the
wherever it may be
wherever you look
wherever you turn
whet slate
whet the appetite
whet the knife
whet the sword
whet your interest
whether or no
whether you will or not
whetstone slate
whetstone-shaped
whetle-bone
whew duck
whey bird
whey butter
whey cure
whey whig
whey-bearded
whey-blooded
whey-brained
whey-colored
whey-face
whey-faced
whi-Zbang
which is Not we
which is in us and all around us
which see
which way the wind blows
whidah bird
whidah finch
whiff of grapeshot
whiffle ball
while airborne
while away
while away the time
while life endures
while on the subject
while you draw breath
whim berry
whim gin
whim-proof
whim-wham
whim-whams
whin sparrow
whin-wrack
whing-ding
whip along
whip and spur
whip antenna
whip away
whip bird
whip crane
whip crop
whip gin
whip graft
whip graftage
whip grass
whip hand
whip handle
whip hoist
whip horse
whip in
whip into shape
whip line
whip maker
whip off
whip on
whip purchase
whip ray
whip rod
whip roll
whip row
whip scorpion
whip snake
whip stall
whip thread
whip top
whip up
whip yarn
whip yourself
whip-
whip-bearing
whip-corrected
whip-cracker
whip-cracking
whip-ended
whip-grafting
whip-hand
whip-jack
whip-lash
whip-marked
whip-poor-will
whip-round
whip-saw
whip-shaped
whip-stick
whip-stitch
whip-tailed
whip-tom-kelly
whip-tongue
whip-up
whip-wielding
whipbelly vengeance
whipcord willow
whiplash injury
whipped cream
whipped up
whipper-in
whipper-snapper
whippers-in
whippet tank
whipping boy
whipping cream
whipping girl
whipping post
whipping top
whipping up
whipping-boy
whipping-snapping
whipping-up
whipsy-derry
whiptail shark
whirl drill
whirl gate
whirl like a dervish
whirl the mind
whirl-
whirl-blast
whirl-shaped
whirligig beetle
whirligig mullet
whirligig of time
whirling dervish
whirling table
whirlpool bath
whirlpool nebula
whirlwinds of tempestuous fire
whirly-
whisk broom
whisk tail
whisk-tailed
whisker boom
whisker jumper
whisker pole
whiskey jack
whiskey smash
whiskey sour
whisky cherry
whisky drinker
whisky jack
whisky john
whisky liver
whisky mac
whisky poker
whisky sour
whisky-drinking
whisky-frisky
whisky-jack
whisky-sodden
whisper glide
whisper glottis
whisper in the ear
whisper sweet nothings
whisper-soft
whispered about
whispering campaign
whispering dome
whispering gallery
whispering office
whispering pectoriloquy
whispering voice
whist drive
whistle at
whistle duck
whistle for
whistle punk
whistle stop
whistle-blower
whistle-pig
whistle-stop
whistle-stop campaign
whistle-stopper
whistle-stopping
whistlebelly vengeance
whistling buoy
whistling duck
whistling jar
whistling swan
whit sunday
white Leghorn
white Mariposa
white Orpington
white Plymouth Rock
white Wyandotte
white acid
white admiral
white alert
white alkali
white ant
white area
white arsenic
white as a lily
white as a sheet
white as snow
white ash
white ash herb
white bass
white bay
white bear
white beet
white belt
white birch
white blood cell
white blood corpuscle
white book
white boy
white bread
white bronze
white bryony
white cake
white campion
white cast iron
white cedar
white chip
white clover
white coal
white comparisons
white cooper
white corpuscle
white crab
white crappie
white cross
white currant
white daisy
white damp
white dew
white dutch clover
white dwarf
white dwarf star
white eardrop
white elephant
white elephant sale
white ensign
white feather
white flag
white flax
white flint
white fox
white friar
white frost
white gas
white gasoline
white globe lily
white gold
white goldenrod
white goods
white gourd
white grape
white grease
white gum
white hairs
white hake
white heat
white hole
white hope
white horde
white horehound
white horse
white horses
white house
white hunter
white iron
white iron pyrites
white lead
white lead ore
white leather
white leg
white lie
white light
white lightning
white lime
white line
white liquor
white list
white liver
white livered
white lotus
white lupine
white magic
white mahogany
white man
white man's burden
white marlin
white matter
white meat
white melilot
white metal
white moss
white mulberry
white mule
white mustard
white noise
white oak
white oil
white paper
white paternoster
white pepper
white perch
white pine
white plague
white poplar
white potato
white pottery
white power
white primary
white pudding
white race
white rainbow
white rat
white room
white rose
white rose mallow
white rot
white russian
white rust
white sage
white sale
white salmon
white sandalwood
white sapote
white sapphire
white sauce
white sea bass
white shark
white sidewall tire
white slave
white slaver
white slavery
white snakeroot
white sour
white space
white spirit
white spiritual
white spruce
white squall
white staff
white stork
white stuff
white sturgeon
white supremacist
white supremacy
white swamp azalea
white tassel flower
white tie
white tie and tails
white titi
white turnip
white upland aster
white vitriol
white walnut
white water
white water lily
white wax
white way
white whale
white wine
white with age
white wolf
white-cross diatom
white-crossed
white-crowned
white-crowned sparrow
white-domed
white-dotted
white-dough
white-ear
white-eared
white-eye
white-eyed
white-eyed vireo
white-eyelid
white-eyelid monkey
white-eyes
white-faced
white-faced hornet
white-favored
white-feathered
white-featherism
white-felled
white-flanneled
white-flecked
white-fleshed
white-flower
white-flowered
white-flowing
white-foot
white-footed
white-footed mouse
white-frilled
white-fringed
white-frocked
white-fronted
white-fronted goose
white-fruited
white-girdled
white-glittering
white-gloved
white-gray
white-green
white-ground
white-haired
white-hairy
white-handed
white-hard
white-hatted
white-headed
white-ribbed
white-ribboned
white-ribboner
white-rinded
white-robed
white-roofed
white-ruffled
white-rumped
white-russet
white-salted
white-satin
white-set
white-sewing
white-shafted
white-sheeted
white-shouldered
white-sided
white-skin
white-skinned
white-slaver
white-slaving
white-sleeved
white-spored
white-spotted
white-stemmed
white-stoled
white-strawed
white-tail
white-tailed
white-tailed deer
white-tailed kit
white-tailed kite
white-tailed sea eagle
white-thighed
white-throated
white-throated sparrow
white-tinned
white-tipped
white-tomentose
white-tongued
white-tooth
white-toothed
white-topped
white-tufted
white-tusked
white-uniformed
white-veiled
white-veined
white-vented
white-waistcoated
white-walled
white-wanded
white-water
white-waving
white-way
white-whiskered
white-wig
white-wigged
white-winged
white-winged coot
white-winged dove
white-winged scoter
white-woolly
white-wristed
white-zoned
whitebark pine
whited sepulcher
whited sepulchre
whitening stone
whitetail deer
whitetailed deer
whitewall tire
whitewash job
whitewood bark
whiting bottle
whiting box
whiting brush
whiting can
whiting dabber
whiting filler
whiting furnace
whiting kit
whiting loader
whiting maker
whiting mill
whiting packer
whiting paste
whiting pollack
whiting pout
whiting powder
whiting sponge
whiting time
whiting tin
whitish-blue
whitish-brown
whitish-cream
whole people
whole picture
whole rest
whole schmear
whole shebang
whole shooting match
whole show
whole shtick
whole slew
whole step
whole story, the
whole time
whole tone
whole wheat
whole wheat bread
whole wheat flour
whole wide world
whole works
whole-and-half
whole-and-half compass
whole-backed
whole-bodied
whole-bound
whole-cloth
whole-colored
whole-eared
whole-eyed
whole-feathered
whole-footed
whole-headed
whole-hearted
whole-hog
whole-hogger
whole-hoofed
whole-leaved
whole-length
whole-minded
whole-mouthed
whole-or-none
whole-sail
whole-seas
whole-skinned
whole-souled
whole-souledly
whole-souledness
whole-spirited
whole-step
whole-timer
whole-tone scale
whole-wheat
whole-witted
wholesale dealer
wholesale house
wholesale murder
wholesale price
whomp up
whoop and a holler
whoop it up
whoop it up about
whoop-de-do
whoop-de-doo
whoop-de-dos
whoop-up
whoopee cup
whooper swan
whooping cough
whooping crane
whooping-cough
whore's bird
whorl foot
why yes
why-not
whydah bird
wi-wi
wibble-wabble
wibble-wobble
wicked imitation
wicked, the
wicked-acting
wicked-eyed
wicked-looking
wicked-minded
wicked-speaking
wicked-tongued
wicker basket
wicker-woven
wicket dam
wicket door
wicket gate
wicket maiden
widhin pear tree
wide apart
wide as a church door
wide awake
wide away
wide berth
wide gauge
wide knowledge
wide margin
wide of the mark
wide open
wide place in the road
wide ration
wide reading
wide world
wide-a-wake
wide-abounding
wide-accepted
wide-angle
wide-angle lens
wide-arched
wide-armed
wide-awake
wide-awake hat
wide-awareness
wide-banked
wide-bottomed
wide-branched
wide-branching
wide-breasted
wide-brimmed
wide-cast
wide-chapped
wide-circling
wide-climbing
wide-consuming
wide-crested
wide-distant
wide-doored
wide-eared
wide-echoing
wide-elbowed
wide-expanded
wide-expanding
wide-extended
wide-extending
wide-eyed
wide-faced
wide-flung
wide-framed
wide-gaping
wide-gated
wide-girdled
wide-handed
wide-hipped
wide-honored
wide-imperial
wide-jointed
wide-kneed
wide-lamented
wide-leafed
wide-leaved
wide-lipped
wide-met
wide-minded
wide-mindedness
wide-mouthe'd
wide-necked
wide-nosed
wide-open
wide-open spaces
wide-open speed
wide-opened
wide-openly
wide-openness
wide-palmed
wide-patched
wide-permitted
wide-petaled
wide-pledged
wide-ranging
wide-reaching
wide-realmed
wide-resounding
wide-ribbed
wide-rimmed
wide-rolling
wide-roving
wide-row
wide-said
wide-sanctioned
wide-screen
wide-seen
wide-set
wide-shaped
wide-shown
wide-skirted
wide-sleeved
wide-sold
wide-soled
wide-sought
wide-spaced
wide-spanned
wide-spread
wide-spreaded
wide-spreading
wide-straddling
wide-straddled
wide-stretched
wide-stretching
wide-throated
wide-toed
wide-toothed
wide-tracked
wide-veined
wide-wasting
wide-watered
wide-wayed
wide-where
wide-winding
wide-winged
wide-yawning
widely apart
widely known
widely read
widen the distance
widest dissemination
widgeon coot
widgeon grass
widow bird
widow duck
widow finch
widow fish
widow flower
widow lady
widow monkey
widow right
widow woman
widow's benefit
widow's cruse
widow's dower
widow's mite
widow's peak
widow's walk
widow's weeds
widow's-cross
widow-bench
widow-bird
widow-maker
widow-wail
widow-wail family
wie geht's
wield authority
wield the baton
wield the scepter
wield the sword
wiener roast
wiener schnitzel
wienie roast
wife in all but name
wife in name only
wife of your bosom
wife swapping
wife-awed
wife-beating
wife-bound
wife-hunting
wife-ridden
wife-to-be
wife-worn
wig block
wig sumac
wig tree
wig-wag
wiggen tree
wiggle nail
wiggle out of
wiggle the finger at
wiggle-tail
wiggle-tail cultivator
wiggle-waggle
wiggle-wogle
wiggly-waggly
wigwag flag
wigwag signal
wilcolored flowers
wild West
wild about
wild allspice
wild and woolly
wild animal
wild animals
wild ass
wild basil
wild bean
wild beast
wild beasts
wild bergamot
wild bleeding-heart
wild boar
wild brier
wild calla
wild carrot
wild cat
wild celery
wild cherry
wild chervil
wild clove
wild corn
wild date
wild deer
wild dog
wild duck
wild fig
wild flax
wild flower
wild for
wild fowl
wild geranium
wild ginger
wild goat
wild goose
wild goose chase
wild growth
wild guess
wild hollyhock
wild honeysuckle
wild horse
wild hyacinth
wild hyacin
wild hydrangea
wild imagination
wild indigo
wild ipecac
wild land
wild lettuce
wild lily-of-the-valley
wild madder
wild man
wild marjoram
wild mulberry
wild mustard
wild oat
wild oats
wild oleander
wild oleaster
wild olive
wild orange
wild ox
wild pansy
wild parsley
wild parsnip
wild passion flower
wild pennyroyal
wild pink
wild pitch
wild potato
wild pumpkin
wild radish
wild rice
wild rose
wild rosemary
wild rubber
wild rye
wild sage
wild sarsaparilla
wild senna
wild service tree
wild sheep
wild shot
wild silk
wild spikenard
wild sunflower
wild sweet pea
wild sweet potato
wild sweet william
wild thyme
wild to
wild track
wild type
wild vanilla
wild west
wild wormwood
wild-acting
wild-aimed
wild-and-woolly
wild-ass
wild-billing
wild-blooded
wild-booming
wild-born
wild-brained
wild-bred
wild-chosen
wild-eyed
wild-fire
wild-flying
wild-fought
wild-fowl
wild-fowler
wild-fowling
wild-goose
wild-goose chase
wild-goose plum
wild-grown
wild-haired
wild-headed
wild-headedness
wild-looking
wild-made
wild-notioned
wild-oat
wild-oat kicker
wild-phrased
wild-spirited
wild-staring
wild-warbling
wild-warring
wild-williams
wild-winged
wild-witted
wild-woven
wildcat bank
wildcat strike
wildcat well
wilderness area
wilderness preserve
wildest dream
wildest dreams
wildlife conservation
wildlife preserve
wile away
will and bequeath
will and pleasure
will and will not
will contest
will for power
will of Heaven
will of iron
will of your own
will power
will to
will to believe
will to power
will turn
will wonders never cease
will you
will-call
will-commanding
will-fraught
will-less
will-lessly
will-lessness
will-o'-the-wisp
will-o-the-wisp
will-strong
will-willet
will-with-the-wisp
will-worship
will-worshiper
willful disobedience
willful misconception
william tell
willie gow
willie hawkie
willie wagtail
willie wicket
willie-waucht
willie-waught
willing ear
willing heart
willing humor
willing mind
willing or unwilling
willingness to believe
willo'-the-wispish
willo'-the-wispy
willow acacia
willow amsonia
willow apple
willow beauty
willow beetle
willow borer
willow buffer
willow cactus
willow cat
willow catfish
willow chafer
willow charcoal
willow cottonwood
willow family
willow fly
willow gall
willow goldfinch
willow green
willow grouse
willow herb
willow lark
willow leaf
willow leaf beetle
willow louse
willow moth
willow myrtle
willow oak
willow pattern
willow peeler
willow poplar
willow ptarmigan
willow sawfly
willow shoot
willow slug
willow slug caterpillar
willow sparrow
willow thorn
willow thrush
willow tit
willow tree
willow wand
willow warbler
willow wren
willow-bordered
willow-colored
willow-cone
willow-cone gall
willow-fringed
willow-grown
willow-herb
willow-leaved
willow-leaved jasmine
willow-shaded
willow-skirted
willow-tree money
willow-tufted
willow-veiled
willow-wielder
willow-wood
willow-wort
willy wagtail
wind musician
wind part
wind plant
wind poppy
wind porch
wind power
wind propulsion
wind pump
wind resistance
wind ripple
wind rose
wind sail
wind scale
wind scoop
wind scorpion
wind shaft
wind shake
wind sheet
wind shelf
wind side
wind signal
wind slash
wind sleeve
wind sock
wind sound
wind sprint
wind stack
wind stacker
wind star
wind stop
wind sucking
wind supply
wind tee
wind the horn
wind throw
wind thrush
wind tie
wind trunk
wind tunnel
wind up
wind valley
wind vane
wind wheel
wind zone
wind-bag
wind-balanced
wind-balancing
wind-beaten
wind-bell
wind-bells
wind-blazing
wind-blown
wind-borne
wind-bound
wind-broken
wind-built
wind-changing
wind-chapped
wind-clipped
wind-cutter
wind-delayed
wind-dispersed
wind-dried
wind-driven
wind-egg
wind-equator
wind-exposed
wind-fanned
wind-fast
wind-fertilization
wind-fertilized
wind-flower
wind-flowing
wind-footed
wind-force
wind-gall
wind-god
wind-grass
wind-guage
wind-gun
wind-hungry
wind-instrument
wind-instrumental
wind-instrumentalist
wind-laid
wind-lashed
wind-making
wind-nodding
wind-obeying
wind-outspeeding
wind-parted
wind-pollinated
wind-pollination
wind-propelled
wind-puff
wind-puffed
wind-raising
wind-rent
wind-rode
wind-scattered
wind-screen
wind-shake
wind-shaken
wind-shift
wind-shift line
wind-speed indicator
wind-struck
wind-stuffed
wind-sucking
wind-swept
wind-swift
wind-swung
wind-taut
wind-toned
wind-up
wind-wandering
wind-waved
wind-waving
wind-whipped
wind-wing
wind-winged
wind-worn
windblown bob
winder rod
winder-on
windfall money
windfall profit
windflower gentian
winding engine
winding frame
winding number
winding pendant
winding sheet
winding staircase
winding stick
winding strip
winding tackle
winding-sheet
windlass bitt
windmill grass
windmill orchid
windmill palm
windmill pink
windmill plane
windmill plant
windmill tower
windmill-like
window back
window bar
window bay
window board
window bole
window box
window card
window case
window catch
window cleaner
window curtain
window decoration
window decorator
window display
window dresser
window dressing
window envelope
window fixture
window fly
window frame
window furniture
window gardening
window glass
window head
window lead
window martin
window mirror
window oyster
window rocket
window sash
window screen
window seat
window shade
window shell
window show
window shutter
window sill
window sole
window space
window stile
window stool
window stop
window swallow
window tax
window trim
wine butt
wine card
wine cask
wine cellar
wine cooler
wine cooper
wine ferment
wine flask
wine fly
wine fountain
wine gallon
wine garden
wine grape
wine lees
wine maker
wine making
wine measure
wine merchant
wine palm
wine party
wine plant
wine press
wine presser
wine purple
wine red
wine seller
wine shop
wine steward
wine stone
wine table
wine taster
wine tester
wine thrush
wine tun
wine vault
wine vinegar
wine whey
wine yeast
wine yellow
wine-bright
wine-cask borer
wine-colored
wine-cooler
wine-crowned
wine-cup
wine-dark
wine-drabbed
wine-drinking
wine-driven
wine-drunken
wine-hardy
wine-heated
wine-house
wine-inspired
wine-laden
wine-merry
wine-press
wine-producing
wine-red
wine-selling
wine-shaken
wine-soaked
wine-stained
wine-stuffed
wine-swilling
wine-tinged
wine-wise
wine-yielding
wing and wing
wing axis
wing back formation
wing band
wing bar
wing bay
wing bearing
wing bit
wing bolt
wing bone
wing bow
wing car
wing case
wing cell
wing chair
wing clipper
wing clipping
wing collar
wing commander
wing compass
wing cover
wing covert
wing coverts
wing dam
wing deck
wing divider
wing dividers
wing drag
wing elm
wing feather
wing flap
wing flat
wing formation
wing game
wing gap
wing gudgeon
wing it
wing jam
wing load
wing loading
wing net
wing nut
wing out ballast
wing over
wing pad
wing passage
wing petal
wing plow
wing power
wing quill
wing radiator
wing rail
wing resistance
wing rib
wing root air intake
wing roots
wing sac
wing screw
wing sheath
wing shell
wing shooting
wing shot
wing skid
wing snail
wing stopper
wing tie
wing tip
wing top
wing tract
wing transom
wing truss
wing valve
wing wale
wing wall
wing your way
wing-borne
wing-broken
wing-case
wing-clipped
wing-ding
wing-footed
wing-hoofed
wing-leafed
wing-leaved
wing-limed
wing-loose
wing-maimed
wing-margined
wing-shaped
wing-slot
wing-swift
wing-tip
wing-tip flare
wing-tip float
wing-tipped
wing-wearily
wing-weariness
wing-weary
wing-wide
wingback formation
winged chair
winged elm
winged rocket
winged spindle tree
winged-footed
winged-heeled
winged-leaved
wink at
wink of sleep
winker braces
winking cartilage
winking muscle
winkle out
winkle-pickers
winner's circle
winning gallery
winning hazard
winning opening
winning post
winning streak
winning ways
winnow cloth
winnow out
winnow sheet
winnow the chaff from the wheat
winnow-corb
winnowed out
winnowing basket
winnowing fan
winnowing machine
winter aconite
winter annual
winter apple
winter barley
winter beer
winter blight
winter bonnet
winter brake
winter bud
winter bunting
winter cherry
winter clover
winter count
winter cress
winter crookneck
winter crop
winter daffodil
winter day
winter duck
winter egg
winter fallow
winter fat
winter fever
winter flounder
winter flower
winter garden
winter geranium
winter gillyflower
winter golf
winter grape
winter green
winter gull
winter hail
winter hawk
winter heath
winter hedge
winter heliotrope
winter hellebore
winter house
winter huckleberry
winter itch
winter jasmine
winter leaf
winter lettuce
winter melon
winter mew
winter midge
winter moth
winter oats
winter of your days
winter oil
winter pear
winter pink
winter plum
winter purslane
winter quarters
winter radish
winter rocket
winter rose
winter rye
winter savory
winter shad
winter sheldrake
winter skate
winter sleep
winter snipe
winter sol
winter solstice
winter spice
winter spore
winter sports
winter squash
winter strawberry
winter sucker
winter sunscald
winter sweet
winter teal
winter tire
winter vetch
winter wagtail
winter wheat
winter wind
winter wolfsbane
winter wren
winter yellowlegs
winter's bark
winter-beaten
winter-blasted
winter-blooming
winter-boding
winter-bound
winter-chilled
winter-clad
winter-damaged
winter-fattened
winter-fed
winter-felled
winter-flowering
winter-gladdening
winter-gray
winter-ground
winter-grown
winter-habited
winter-hardened
winter-hardy
winter-house
winter-kill
winter-long
winter-love
winter-loving
winter-made
winter-old
winter-proof
winter-proud
winter-pruned
winter-quarter
winter-reared
winter-rig
winter-ripening
winter-seeming
winter-shaken
winter-sown
winter-standing
winter-starved
winter-swollen
winter-thin
winter-verging
winter-visaged
winter-wasted
winter-withered
winter-worn
wintergreen barberry
wintergreen family
wintergreen oil
wintry weather
wintry wind
wipe away the tears
wipe away your tears
wire grating
wire grub
wire gun
wire house
wire lath
wire line
wire ling
wire loop binding
wire mark
wire micrometer
wire money
wire nail
wire netting
wire nut
wire pack
wire plant
wire press
wire radio
wire recorder
wire recording
wire reducer
wire road
wire rod
wire roller
wire room
wire rope
wire ropeway
wire rush
wire saw
wire sculpture
wire service
wire sewer
wire side
wire silver
wire spooler
wire stem
wire stitch
wire stitcher
wire stitching
wire straightener
wire strander
wire tapper
wire tapping
wire tester
wire tightener
wire tinner
wire vine
wire walker
wire-stranding
wire-stretching
wire-stringed
wire-strung
wire-tailed
wire-testing
wire-tightening
wire-tinning
wire-toothed
wire-wheeled
wire-winding
wire-worker
wire-wound
wire-wound resistor
wire-wove
wire-woven
wired glass
wired radio
wired television
wired wireless
wirehaired pointing griffon
wirehaired terrier
wireless apparatus
wireless beacon
wireless circuit
wireless communication
wireless compass
wireless operator
wireless set
wireless telegraph
wireless telegrapher
wireless telegraphist
wireless telegraphy
wireless telephone
wireless telephony
wirewound resistor
wiring die
wiring machine
wiring press
wiring punch
wiry-brown
wiry-coated
wiry-haired
wiry-leaved
wiry-looking
wiry-stemmed
wiry-voiced
wisdom literature
wisdom tooth
wisdom-bred
wisdom-given
wisdom-giving
wisdom-led
wisdom-loving
wisdom-seasoned
wisdom-seeking
wisdom-teaching
wisdom-working
wise as Solomon
wise as a serpent
wise as an owl
wise beyond your years
wise crack
wise expression
wise fool
wise guy
wise in the ways of the world
wise in your generation
wise in your own conceit
wise man
wise man of Chelm
wise man of Gotham
wise old man
wise passiveness
wise saying
wise to
wise up
wise up to
wise-ass
wise-bold
wise-framed
wise-hardy
wise-headed
wise-heart
wise-judging
wise-lipped
wise-reflecting
wise-said
wise-spoken
wise-valiant
wise-worded
wiser head
wish for
wish fulfillment
wish fulfilment
wish on
wish to
wish to goodness
wish upon
wish very much
wish well
wish you joy
wish you luck
wish-bringer
wish-fulfilling
wish-fulfillment
wish-fulfillment fantasy
wish-giver
wish-maiden
wish-wash
wish-washy
wishbone bush
wishbone gaff
wishbone rig
wished-for
wishful belief
wishful thinker
wishful thinking
wishing bone
wishing cap
wishing stone
wishing well
wishy-washily
wishy-washiness
wishy-washy
wisp of smoke
wisteria blue
wisteria violet
wistful eye
wistful-eyed
wit tooth
wit's end
wit-abused
wit-assailing
wit-beaten
wit-cherishing
wit-crack
wit-cracker
wit-drawn
wit-founndered
wit-fraught
wit-gracing
wit-infusing
wit-loving
wit-masked
wit-offended
wit-oppressing
wit-pointed
wit-salted
wit-snapper
wit-starved
wit-stung
wit-worn
witch alder
witch baiter
witch baiting
witch ball
witch bird
witch broom
witch burner
witch burning
witch butter
witch cake
witch chick
witch doctor
witch doctoring
witch doctory
witch doctress
witch fire
witch flounder
witch for water
witch gowan
witch grass
witch hazel
witch hobble
witch hopple
witch hunt
witch hunter
witch knot
witch light
witch lock
witch mania
witch mark
witch master
witch meal
witch mob
witch of Agnesi
witch of Endor
witch sabbath
witch stick
witch stitch
witch tree
witch's mark
witch-charmed
witch-doctor
witch-elm
witch-finder
witch-finding
witch-hazel family
witch-held
witch-hunt
witch-hunter
witch-hunting
witch-ridden
witch-stricken
witch-struck
witch-woman
witches' Sabbath
witches' chorus
witches' coven
witches' meeting
witches' sabbath
witches'-besom
witches'-broom
witchetty grub
witching hour
witching hour of the night
witching stick
with a bad grace
with a bellyful
with a bump for
with a catch to it
with a cheerful heart
with a clear conscience
with a collar on
with a difference
with a firm hand
with a flair
with a free hand
with a good grace
with a grain of salt
with a guilty conscience
with a handful of thumbs
with a head on
with a heavy hand
with a heavy heart
with a high hand
with a joker to it
with a kick
with a kicker to it
with a liking for
with a long face
with a loud voice
with a memory like a sieve
with a mind like a sieve
with a new to
with a nose for
with a poker face
with a reservation
with a right to
with a rush
with a sparing hand
with a sneer
with a sparing hand
with a stiff neck
with a straight face
with a string to it
with a strong hand
with a string to it
with a hand
with a touch of genius
with a vengeance
with a view to
with a weather eye open
with a whole skin
with a whoop and a hurrah
with a will
with a whoop and a hurrah
with a yellow streak
with abandon
with advantage
with affection
with agonizing slowness
with alacrity
with all due respect for
with all due respect to
with all haste
with all my heart
with all respect
with all speed
with all your heart
with all your love
with all your might
with an ear for
with an ear for music
with an exception
with an eye for
with an eye to
with an ill grace
with an interval
with an iron hand
with an unsparing hand
with arms akimbo
with attention
with authority
with bad grace
with bad intent
with bated breath
with bats in the belfry
with beat of drum
with beating heart
with bedroom eyes
with bells on
with both eyes closed
with both feet on the ground
with both hands
with breathless expectation
with brimming eyes
with care
with caution
with chattering teeth
with child
with clarity
with clean hands
with confidence
with constancy
with consummate skill
with contempt
with crossed bayonets
with crow's feet
with crystal clarity
with curling lip
with deliberation
with difficulty
with dignity
with dispatch
with distinction
with downcast eyes
with dragging feet
with dry eyes
with due deference
with due respect
with ears pricked up
with ears strained
with ease
with effort
with elan
with emphasis
with enough of
with enthusiasm
with everything against one
with everything against you
with everything that is in one
with everything that is in you
with exactitude
with eyes strained
with eyes suffused
with faith
with faltering steps
with fear and trembling
with feeling
with finesse
with flourish of trumpet
with flying colors
with folded hands
with foresight
with forethought
with full intent
with gaping mouth
with genius
with giant strides
with glistening eyes
with good cheer
with good faith
with good grace
with good right
with good will
with great care
with great haste
with great nicety
with gusto
with half a mind to
with halting steps
with haste
with head erect
with head held high
with heart beating high
with heart going pitter-patter
with heart in mouth
with honor
with impunity
with indifference
with intent
with intent to deceive
with interest
with intervals
with it
with joined hands
with leaping heart
with life and spirit
with love
with low resistance
with malice aforethought
with malice prepense
with many a flirt and flutter
with many others
with might and main
with much ado
with muscles tense
with news value
with no heart
with no nonsense
with no stomach
with no time to spare
with nose in air
with nose turned up
with nothing inside
with nothing on
with one accord
with one another
with one consent
with one foot in the grave
with one voice
with one wild yell
with open arms
with open eyes
with open hands
with over-measure
with overflowing eyes
with pep
with permission
with pleasure
with precision
with premeditation
with pride
with purpose
with qualifications
with rapid strides
with rapt attention
with reason
with reference to
with regard to
with relation to
with relish
with reservations
with resignation
with respect to
with right good will
with safety
with sails spread
with satisfaction
with set jaw
with skill
with some allowance
with speed
with steerageway
with sullen mouth
with swimming eyes
with taste
with tearful eyes
with tears in eyes
with tears in your eyes
with telling effect
with that
with the Lord
with the addition of
with the assistance of
with the beat
with the best
with the exception of
with the exception that
with the help of
with the intent that
with the lark
with the saints
with the speed of light
with the stipulation
with the strong arm
with the sun
with the understanding
with the view of
with the wind
with the wind abaft the beam
with the wind aft
with this
with this proviso
with time to spare
with tongue in cheek
with total dedication
with truth
with undivided attention
with us
with utter indifference
with verve
with vim
with voice
with voice and vote
with vote
with watery eyes
with way on
with wind abeam
with young
with your back to the wall
with your eyes open
with your eyes peeled
with your family
with your fill of
with your head in the clouds
with your own petard
with your permission
with your tail between your legs
with your tongue in your cheek
with zest
with zip
with-
with-drawn
with-it
withdraw from
withdraw from the field
withdraw the charge
withdraw your support
withdrawal of attention
withdrawal sickness
withdrawal symptom
withdrawal symptoms
withdrawing room
withe rod
wither away
wither-wrung
withered loins
withhold assent
withholding tax
within a stone's throw
within a styour throw
within a whoop and a holler
within an ace of
within an inch
within an inch of
within bounds
within call
within compass
within earreach
within earshot
within hail
within hearing
within means
within range
within range of
within reach
within reason
within reasonable limitations
within sight
within the bounds of possibility
within the bounds of reason
within the domain of possibility
within the frame of reference
within the framework
within the law
within the limits of reason
within the range of possibility
within the realm of possibility
within the reference system
within the scope of the law
within the universe of discourse
within these four walls
within two whoops and a holler
within your grasp
within-bound
within-door
within-named
without a break
without a change of menu
without a change of pace
without a change of scenery
without a clue
without a dissenting voice
without a minute to spare
without a name
without a nerve in your body
without a shadow of turning
without a sou
without a stitch
without a stitch on
without a stitch to one's name
without a stitch to your back
without a stitch to your name
without a tremor
without a will of your own
without any qualms
without any scruples
without any weight
without appeal
without basis
without being
without benefit of clergy
without body
without book
without bottom
without bound
without break
without care
without cease
without ceasing
without ceremony
without charge
without choice
without coercion
without compulsion
without compunction
without connection
without content
without contradiction
without date
without delay
without demur
without design
without difference
without difficulty
without distinction
without distraction
without door
without doors
without doubt
without end
without equal
without equivocation
without exception
without fail
without faith
without fear of contradiction
without fear or favor
without foundation
without further delay
without grounds
without hesitation
without hope
without intermission
without intimidation
without issue
without letup
without life
without limit
without looking back
without measure
without mercy
without nerves
without notice
without number
without omission
without parallel
without prejudice
without premeditation
without pressure
without price
without reason
without reference
without regard
without regard to
without regard to persons
without regret
without reluctance
without remorse
without reproach
without reserve
without respect to
without respect to persons
without restraint
without rhyme or reason
without shame
without sound basis
without stint
without stopping
without striking a blow
without strings
without success
without suspicion
without term
without the least delay
without the least doubt
without turning a hair
without unspotted
without vital functions
without warning
without wasting words
without willing
withy-bound
withy-woody
witloof chicory
witness box
witness corner
witness mark
witness stand
witness-box
witney nap
witty reply
witty retort
witty-brained
witty-conceited
witty-feigned
witty-pated
witty-pretty
witty-worded
wizard-woven
wizen-faced
wizen-hearted
woad vat
woad-leaved
woad-painted
wobble board
wobble pump
wobble saw
wobbling disk
woe is me
woe-begetting
woe-begone
woe-beseeen
woe-bested
woe-betrothed
woe-boding
woe-dejected
woe-delighted
woe-denouncing
woe-destined
woe-embroidered
woe-enwapped
woe-exhausted
woe-foreboding
woe-fraught
woe-grim
woe-humbled
woe-illumed
woe-infirmed
woe-laden
woe-maddened
woe-revolving
woe-scorning
woe-sprung
woe-stricken
woe-struck
woe-surcharged
woe-threatened
woe-tied
woe-wearied
woe-weary
woe-wedded
woe-whelmed
woe-wrinkled
woeful-wan
wold mouse
wolf at the door
wolf call
wolf cub
wolf dog
wolf down
wolf eel
wolf fish
wolf fruit
wolf grape
wolf herring
wolf in sheep's clothing
wolf in the stomach
wolf madness
wolf moth
wolf note
wolf pack
wolf snake
wolf spider
wolf tooth
wolf tree
wolf willow
wolf's-bane
wolf's-head
wolf-begotten
wolf-boy
wolf-child
wolf-children
wolf-colored
wolf-dog
wolf-eel
wolf-eyed
wolf-gray
wolf-haunted
wolf-headed
wolf-hound
wolf-hunting
wolf-man
wolf-moved
wolf-scaring
wolf-shaped
wolf-slaying
wolf-suckled
wolffian body
wolfram lamp
wolfram ocher
wolfram steel
woman chaser
woman child
woman movement
woman of easy virtue
woman of her word
woman of honor
woman of the house
woman of the street
woman of the streets
woman of the town
woman of the world
woman suffrage
woman's editor
woman's intuition
woman's rights
woman-bearing
woman-born
woman-bred
woman-built
woman-child
woman-churching
woman-conquered
woman-daunted
woman-degrading
woman-despising
woman-easy
woman-faced
woman-fair
woman-fashion
woman-flogging
woman-governed
wonder-fed
wonder-hiding
wonder-loving
wonder-mocking
wonder-promising
wonder-raising
wonder-seeking
wonder-sharing
wonder-smit
wonder-smitten
wonder-stirring
wonder-stricken
wonder-striking
wonder-struck
wonder-teenth
wonder-waiting
wonder-working
wonder-wounded
wonder-writing
wonderful thing
wonders of the world
wondrous strange
wonga-wonga
wont-believer
wont-learner
wont-wait
wont-work
wood acid
wood alcohol
wood almond
wood anemone
wood ant
wood apple
wood aster
wood avens
wood awl
wood baboon
wood Barker
wood bass
wood bedstraw
wood bender
wood betony
wood bison
wood block
wood boiler
wood borer
wood broom
wood brown
wood buffalo
wood bundle
wood calamint
wood calker
wood carpet
wood carver
wood carving
wood cell
wood cement
wood checker
wood chess
wood chopper
wood clamp
wood cleaner
wood cleaver
wood cloth
wood coal
wood coker
wood collier
wood copper
wood corn
wood cudweed
wood culver
wood daffodil
wood distiller
wood dove
wood draftsman
wood drake
wood drawing
wood dresser
wood driller
wood duck
wood duster
wood dyer
wood enameler
wood engraver
wood engraving
wood evil
wood facer
wood fagoter
wood feller
wood fern
wood fiber
wood file
wood filler
wood finisher
wood flour
wood flower
wood fretter
wood fringe
wood frog
wood gas
wood gatherer
wood germander
wood grass
wood groundsel
wood grouse
wood grower
wood grubber
wood gum
wood hair grass
wood hen
wood hewer
wood honey
wood hoopoe
wood hyacinth
wood ibis
wood instrument
wood ipecac
wood keeper
wood kingfisher
wood laborer
wood lark
wood laurel
wood leopard
wood leopard moth
wood lily
wood loader
wood lock
wood lot
wood louse
wood machine
wood machinist
wood meadow grass
wood meal
wood measurer
wood milling machine
wood mite
wood model
wood molder
wood mouse
wood naphtha
wood nettle
wood nightshade
wood nut
wood nymph
wood offering
wood oil
wood oil tree
wood opal
wood owl
wood packing
wood painting
wood paper
wood parenchyma
wood partridge
wood pavior
wood pea
wood peat
wood pegger
wood pennyroyal
wood pewee
wood pie
wood pigeon
wood pimpernel
wood pitch
wood planer
wood plant
wood polisher
wood port
wood pulp
wood pussy
wood quail
wood quartet
wood quintet
wood rabbit
wood range
wood rat
wood ray
wood reed
wood reed grass
wood render
wood robin
wood rose
wood rosin
wood rot
wood rush
wood sage
wood sandpiper
wood saw
wood sawyer
wood scale
wood screw
wood sheldrake
wood shock
wood shrike
wood slave
wood snail
wood snipe
wood sorrel
wood spack
wood spear grass
wood spirit
wood splitter
wood spurge
wood stain
wood stainer
wood stamp
wood star
wood stork
wood stove
wood strawberry
wood sugar
wood swallow
wood tapper
wood tar
wood tenoner
wood terrapin
wood thrush
wood tick
wood tin
wood titmouse
wood tortoise
wood trimmer
wood turner
wood turning
wood turpentine
wood vetch
wood vetchling
wood vine
wood vinegar
wood violet
wood warbler
wood wasp
wood widgeon
wood willower
wood wind
wood wool
wood wren
wood-and-water joey
wood-apple gum
wood-block
wood-block printing
wood-boring
wood-born
wood-bred
wood-built
wood-carver
wood-cased
wood-crowned
wood-cutter
wood-dried
wood-dwelling
wood-eating
wood-embosomed
wood-embossing
wood-encumbered
wood-faced
wood-fibered
wood-fringed
wood-girt
wood-hen
wood-hewing
wood-hooped
wood-kern
wood-keyed
wood-lined
wood-louse
wood-mat
wood-nep
wood-note
wood-nymph
wood-oil-tree family
wood-paneled
wood-paved
wood-pigeon
wood-planing
wood-queest
wood-quest
wood-ray parenchyma
wood-rip
wood-roofed
wood-shear
wood-sheathed
wood-skirted
wood-sorrel family
wood-sour
wood-spirit
wood-stock
wood-swallow
wood-tar pitch
wood-turning
wood-turning lathe
wood-walled
wood-wind instrument
wood-wind quartet
wood-wind quintet
woodbine green
woodbine-clad
woodbine-covered
woodbine-wrought
woodchat shrike
woodchuck day
woodcock owl
woodcock pilot
woodcock shell
woodcock snipe
woodcock soil
wooden Indian
wooden basket
wooden horse
wooden indian
wooden kimono
wooden nickel
wooden overcoat
wooden shoe
wooden shoes
wooden spoon
wooden spoonist
wooden tongue
wooden wedge
wooden-barred
wooden-bottom
wooden-faced
wooden-featured
wooden-headed
wooden-headedness
wooden-hooped
wooden-hulled
wooden-legged
wooden-lined
wooden-pinned
wooden-posted
wooden-seated
wooden-shoed
wooden-sided
wool grading
wool grass
wool grease
wool green
wool hall
wool hardener
wool mill
wool moth
wool needle
wool oil
wool oiler
wool packer
wool powder
wool sampler
wool scour
wool spinner
wool spinning
wool sponge
wool staple
wool stapler
wool stripper
wool table
wool thistle
wool tree
wool waste
wool wax
wool-backed
wool-bearing
wool-bundling
wool-burring
wool-cleaning
wool-clipper
wool-coming
wool-drying
wool-dyed
wool-eating
wool-flock
wool-fringed
wool-gather
wool-gathering
wool-growing
wool-hetchel
wool-laden
wool-lined
wool-oerburdened
wool-pack
wool-packing
wool-pated
word arrangement
word association
word association test
word blindness
word boundary
word by word
word class
word contest
word deafness
word for word
word form
word game
word history
word hoard
word in the ear
word letter
word list
word lore
word method
word music
word musician
word of advice
word of command
word of explanation
word of honor
word of mouth
word order
word painter
word painting
word picture
word processing
word processor
word salad
word sign
word square
word stress
word study
word symbol
word time
word to the wise
word value
word-beat
word-blind
word-book
word-bound
word-breaking
word-catcher
word-catching
word-charged
word-clad
word-coiner
word-compelling
word-conjuring
word-deaf
word-dearthing
word-driven
word-for-word
word-for-word translation
word-formation
word-group
word-hoard
word-jobber
word-juggling
word-keeping
word-lore
word-of
word-of-mouth
word-of-mouth evidence
word-of-mouth success
word-paint
word-painting
word-perfect
word-pity
word-seller
word-selling
word-slinger
word-slinging
word-splitting
word-stock
word-wounded
words in their best order
words of wisdom
work a change
work a cure
work against
work against time
work as
work as a team
work at
work away
work back
work basket
work both sides of the street
work camp
work clothes
work cure
work curve
work day and night
work double hours
work double tides
work evil
work farm
work for
work for wages
work force
work function
work hard
work horse
work in
work into
work late
work lead
work like a Trojan
work like a cart horse
work like a coal heaver
work like a dog
work like a galley slave
work like a horse
work like a horse to
work like a machine
work like a slave
work load
work of Penelope
work of a master
work of a past master
work of an artist
work of art
work of fiction
work of reference
work off
work on
work out
work out a deal
work out beforehand
work over
work overtime
work release
work roller
work school
work sheet
work shift
work shoe
work shoes
work site
work socks
work song
work space
work spreading
work stock
work stone
work stoppage
work ticket
work to windward
work to your advantage
work to your will
work together
work toward
work train
work under pressure
work up
work up into a lather
work up into a passion
work up to
work upon
work week
work well
work wonders
work your fingers to the bone
work your head off
work your head to the bone
work your shift
work your way
work your way up
work yourself into a lather
work yourself into a stew
work yourself into a sweat
work yourself up
work-and-tumble
work-and-turn
work-and-twist
work-and-whirl
work-day
work-harden
work-hardened
work-hour
work-master
work-producing
work-seeking
work-shy
work-shyness
work-stained
work-stopper
working person  
working pit  
working plan  
working point  
working principle  
working proposition  
working rail  
working rod  
working rule  
working space  
working stiff  
working strength  
working stress  
working substance  
working toward  
working tube  
working up  
working week  
working-capital fund  
working-class  
working-day  
working-man  
working-out  
workings of the mind  
workmen's compensation  
workmen's compensation insurance  
works committee  
works council  
works manager  
works, the  
world ash  
world at large  
world belt  
world beyond the grave  
world champion  
world communion sunday  
world concept  
world day of prayer  
world economy  
world federalism  
world federalist  
world government  
world ground  
world island  
world language  
world line  
world myth  
world of fashion
world-authorized
world-awed
world-barred
world-beater
world-beating
world-beheld
world-beloved
world-beset
world-borne
world-bound
world-braving
world-broken
world-bruised
world-building
world-burdened
world-busied
world-canvassed
world-captivating
world-celebrated
world-censored
world-censured
world-challenging
world-changing
world-charming
world-cheering
world-choking
world-chosen
world-circling
world-circulated
world-civilizing
world-classifying
world-cleansing
world-comforting
world-commanding
world-commended
world-compassing
world-compelling
world-condemned
world-confounding
world-connecting
world-conquering
world-conscious
world-consciousness
world-constituted
world-consuming
world-contemning
world-contracting
world-contrasting
world-controlling
world-converting
world-copied
world-corrupted
world-corrupting
world-covering
world-creating
world-credited
world-crippling
world-crowding
world-crushed
world-deaf
world-debated
world-deceiving
world-deep
world-defying
world-delighting
world-delivering
world-demanded
world-denying
world-depleting
world-depressing
world-describing
world-deserting
world-desired
world-desolation
world-despising
world-destroying
world-detached
world-detesting
world-devouring
world-diminishing
world-directing
world-disappointing
world-discovering
world-discussed
world-disgracing
world-dissolving
world-distributed
world-disturbing
world-divided
world-dividing
world-dominating
world-dreaded
world-dwelling
world-echoed
world-educating
world-embracing
world- eminent
world-encircling
world-ending
world-enlarging
world-enlightening
world-entangled
world-enveloping
world-envied
world-esteemed
world-excelling
world-exciting
world-famed
world-familiar
world-famous
world-favored
world-fearing
world-felt
world-forgetting
world-forgotten
world-forming
world-forsaken
world-forsaking
world-fretted
world-girdling
world-gladdening
world-governing
world-grasping
world-great
world-grieving
world-hailed
world-hardened
world-hating
world-heating
world-helping
world-honored
world-horrifying
world-humiliating
world-imagining
world-improving
world-infected
world-informing
world-involving
world-jaded
world-jeweled
world-joining
world-kindling
world-knowing
world-known
world-lamented
world-lasting
world-leading
world-leveling
world-lighting
world-line
world-linking
world-long
world-loving
world-mad
world-made
world-marked
world-mastering
world-melting
world-menacing
world-missed
world-mocking
world-mourned
world-moving
world-naming
world-needed
world-neglected
world-nigh
world-nosed
world-noted
world-obligating
world-observed
world-occupying
world-offending
world-old
world-opposing
world-oppressing
world-ordering
world-organizing
world-outraging
world-overcoming
world-overthrowing
world-owned
world-paralyzing
world-pardoned
world-patriotic
world-peopling
world-perfecting
world-pestering
world-picked
world-pitied
world-plaguing
world-pleasing
world-self
world-serving
world-settling
world-shaking
world-sharing
world-shocking
world-sick
world-simplifying
world-sized
world-slandered
world-sobered
world-soiled
world-spoiled
world-spread
world-stained
world-startling
world-staying
world-stirring
world-strange
world-studded
world-subduing
world-sufficing
world-supplying
world-supporting
world-surrounding
world-surveying
world-sustaining
world-swallowing
world-taking
world-taming
world-taught
world-tempted
world-tested
world-thrilling
world-tired
world-tolerated
world-tossing
world-traveler
world-troubling
world-turning
world-uniting
world-used
world-valid
world-valued
world-venerated
world-view
world-waited
world-wandering
world-wanted
world-wasting
world-watched
world-wearied
world-wearily
world-weariness
world-weary
world-welcome
world-wept
world-wide
world-widely
world-wideness
world-winning
world-wise
world-without-end
world-witnessed
world-worn
world-wrecking
worldly minded
worldly wisdom
worldly-minded
worldly-mindedly
worldly-mindedness
worldly-wise
worlds apart
worlds of
worlds-high
worm abscess
worm along
worm aneurysm
worm bark
worm brood
worm burrow
worm capsule
worm cast
worm conveyer
worm disease
worm drive
worm fence
worm fever
worm gear
worm gearing
worm grass
worm gut
worm in
worm in the apple
worm in the rose
worm lizard
worm medicine
worm moss
worm oil
worm out
worm out of
worm powder
worm punch
worm shell
worm snake
worm tea
worm thread
worm tincture
worm tube
worm wheel
worm wire
worm your way
worm yourself in
worm yourself into
worm's eye view
worm-breeding
worm-cankered
worm-consumed
worm-destroying
worm-driven
worm-eat
worm-eaten
worm-eatenness
worm-eater
worm-eating
worm-gear elevator
worm-gereed
worm-gnawed
worm-gnawn
worm-killing
worm-nest
worm-pierced
worm-resembling
worm-reserved
worm-riddled
worm-ripe
worm-shaped
worm-spun
worm-tongued
worm-wheel
worm-wheel hob thread
worm-worn
worm-wrought
wormseed mustard
wormseed oil
wormwood oil
wormwood sage
worn away
worn clothes
worn down
worn out
worn ragged
worn thin
worn to a frazzle
worn to a shadow
worn to rags
worn to the bone
worn to the bones
worn to the stump
worn to threads
worn-down
worn-out
worn-outness
worried sick
worried stiff
worried to a frazzle
worries and cares
worry along
worry beads
worry shoe
worry your head about
worry yourself
worry yourself sick
worry-carl
worse and worse
worse off
worse-affected
worse-applied
worse-bodied
worse-born
worse-bred
worse-calculated
worse-conditioned
worse-disposed
worse-dispositioned
worse-executed
worse-faring
worse-governed
worse-handled
worse-informed
worse-lighted
worse-mannered
worse-mated
worse-named
worse-natured
worse-opinionated
worse-ordered
worse-paid
worse-performed
worse-printed
worse-rated
worse-ruled
worse-satisfied
worse-served
worse-spent
worse-succeeding
worse-taught
worse-tempered
worse-thoughted
worse-timed
worse-treated
worse-typed
worse-utilized
worse-wanted
worse-wrought
worship great store by
worship idols
worship mammon
worship the golden calf
worship the ground you walk on
worship-paying
worst-affected
worst-bred
worst-cast
worst-damaged
worst-deserving
worst-disposed
worst-fashioned
worst-formed
worst-governed
worst-informed
worst-managed
worst-manned
worst-paid
worst-printed
worst-ruled
worst-served
worst-taught
worst-timed
worst-treated
worst-used
worst-wanted
worsted-stocking knave
worth a great deal
worth a king's ransom
worth a pretty penny
worth having
worth its weight in gold
worth the money
worth your salt
worth your while
worth-while
worth-whileness
worthless as tits on a boar
worthless fellow
worthy of
worthy of faith
wot not of
wot of
wou-wou
would as leave
would as lief
would as lief as not
would be glad of
would fain do
would fain have
would rather not
would-be
would-be gentleman
would-have-been
wound chevron
wound cork
wound fever
wound fungus
wound gall
wound parasite
wound rocket
wound shock
wound string
wound to the quick
wound up
wound-dressing
wound-fevered
wound-free
wound-inflicting
wound-marked
wound-plowed
wound-producing
wound-scarred
wound-secreted
wound-up
wound-worn
wounded pride
wounds immedicable
wove paper
woven-wire
wow-wow
wowie zowie
wr-
wrack and ruin
wrack grass
wrack the nerves
wrack up
wracked with age
wrangle over
wrap about
wrap around
wrap up
wrap yourself in
wrap-
wrap-around
wrap-rascal
wrap-round
wrap-up
wrapped in
wrapped in clouds
wrapped in mystery
wrapped in thought
wrapped in wonder
wrapped up
wrapped up in
wrapped up in yourself
wrapping paper
wrapping-gown
wrath-allaying
wrath-bewildered
wrath-consumed
wrath-faced
wrath-kindled
wrath-kindling
wrath-provoking
wrath-swollen
wrath-wreaking
wrathful-eyed
wreak havoc
wreak havoc on
wreak your vengeance
wreath goldenrod
wreath shell
wreath-crowned
wreath-drifted
wreath-festooned
wreath-wrought
wreath around
wreathed column
wreck buoy
wreck gun
wreck master
wreck of your former self
wreck-bestrewn
wreck-causing
wreck-devoted
wreck-free
wreck-raising
wreck-strewn
wreck-threatening
wrecking bar
wrecking car
wrecking crane
wrecking frog
wrecking pump
wren babbler
wren tit
wren warbler
wren-thrush
wren-tit
wrench fit
wrench forger
wrench from
wrench hammer
wrench head
wrest block
wrest from
wrest out
wrest pin
wrest plank
wresting out
wrestle with
wrestling hold
wrestling match
wrestling meet
wrestling ring
wrestling school
wretched lot
wretched of the earth
wretched-fated
wretched-looking
wretched-witched
wriggle out of
wriggle yourself into
wring from
wring out
wring the heart
wring your hands
wringer washer
wringing fit
wringing machine
wringing wet
wringing-wet
wrinkle-coated
wrinkle-faced
wrinkle-fronted
wrinkle-furrowed
wrinkle-making
wrinkle-scaled
wrinkled like a prune
wrinkled-browed
wrinkled-cheeked
wrinkled-leaved
wrinkled-old
wrinkled-shelled
wrinkled-visaged
wrist clonus
wrist drop
wrist joint
wrist pin
wrist plate
wrist shot
wrist watch
wrist-drop
writ of assistance
writ of certiorari
writ of election
writ of error
writ of execution
writ of extent
writ of habeas corpus
writ of privilege
writ of prohibition
writ of protection
writ of right
writ of summons
write a letter
write between the lines
write destination
write down
write home about
write in
write in prose
write into your will
write off
write out
write poetry
write prose
write to
write up
write up a report
write upon
write your own ticket
write yourself a man
write-down
write-in
write-in campaign
write-in vote
write-off
write-up
writer to the signet
writer's block
writer's cramp
writer's itch
writer's palsy
writer's spasm
writer-in-residence
writing board
writing brush
writing cabinet
writing case
writing desk
writing exercise
writing expert
writing fluid
writing frame
writing ink
writing lesson
writing machine
writing machines
writing master
writing material
writing materials
writing on the wall
writing pad
crossing paper
crossing reed
crossing room
crossing set
crossing stamps
writing style
writing system
writing systems
writing table
writing tablet
writing telegraph
writing-table
writing paper
written character
written communication
written constitution
written down
written examination
written hand
written language
written law
written matter
written music
wrong conduct
wrong construction
wrong font
wrong foot
wrong fount
wrong impression
wrong linking
wrong move
wrong name
wrong number
wrong side
wrong side of your face
wrong side out
wrong step
wrong time
wrong use
wrong-directed
wrong-doer
wrong-ended
wrong-endedness
wrong-feigned
wrong-foot
wrong-gotten
wrong-grounded
wrong-headed
wrong-headedly
wrong-headedness
wrong-jawed
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wrong-mindedly
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wrong-ordered
wrong-principled
wrong-screwed
wrong-thinking
wrong-timed
wrong-voting
wrong-way
wrong-way around
wroth money
wroth penny
wroth silver
wrought iron
wrought iron casting
wrought out
wrought up
wrought up by
wrought-iron
wrought-up
wry face
wry mouth
wry-armed
wry-billed
wry-blown
wry-eyed
wry-faced
wry-formed
wry-guided
wry-legged
wry-looked
wry-mouthed
wry-necked
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wry-set
wry-tailed
wry-toothed
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wu-wei
wung-out
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wye level
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x height
x in
x number
x out
x ray
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x-axis
x-disease
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x-height
x-high
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x-line
x-out
x-radiation
x-ray
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x-ray crystallography
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x-ray therapy
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x-stretcher
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y-cast
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y-pointing
y-rapt
y-scalded
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y-warn
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yacht builder
yacht chair
yacht club
yacht decorator
yacht designer
yacht engineer
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yacht race
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yacht rope
yacht squadron
yacht-built
yachtman's anchor
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yam potato
yam stick
yam tree
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yard cleaner
yard donkey
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yard foreman
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yard grass
yard inspector
yard laborer
yard locomotive
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yard regulator
yard rope
yard rush
yard scavenger
yard signalman
yard slings
yard sweeper
yard tackle
yard trader
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yard-broad
yard-deep
yard-long
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yarn bleacher
yarn boiler
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yarn bundler
yarn carrier
yarn conditioner
yarn croft
yarn dresser
yarn dryer
yarn dyer
yarn finisher
yarn inspector
yarn packer
yarn printer
yarn reel
yarn reeler
yarn remover
yarn sizer
yarn sorter
yarn spinner
yarn spinning
yarn spreader
yarn stretcher
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yarn tester
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yarn winder
yarn-boiling
yarn-cleaning
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yarn-mercerizing
yarn-spinning
yarn-testing
yate tree
yaw off
yaw shrub
yaw-haw
yaw-sighted
yaw-ways
yaw-yaw
yawl boat
yawl-rigged
yawning abyss
yawning chasm
yawning depths
yay big
ye do
ye-makimono
yea sayer
yea vote
yea-and-nay
yea-and-nayish
yea-nay
yea-sayer
yea-saying
yeah-yeah
year after year
year count
year hour
year in
year in and year out
year in year out
year letter
year of grace
year out
year's mind
year-around
year-book
year-born
year-counted
year-daimon
year-demon
year-end
year-long
year-marked
year-old
year-round
yearly meeting
yearn for
yearning for the past
years ago
years of discretion
years old
years on end
yeas and nays
yeast bee
yeast cake
yeast cell
yeast fungus
yeast nucleic acid
yeast plant
yeast powder
yeast spot
yeast-bitten
yeddo hawthorn
yell at
yell bloody murder
yell out
yell to high heaven
yell yourself hoarse
yellow Chartreuse
yellow alert
yellow bell
yellow belly
yellow bile
yellow birch
yellow blindness
yellow book
yellow brass
yellow bush
yellow cake
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yellow-bellied sapsucker
yellow-bellied woodpecker
yellow-belly
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yellow-billed cuckoo
yellow-billed magpie
yellow-black
yellow-blossomed
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yellow-checked
yellow-cheeked
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yellow-dye tree
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yellow-eared
yellow-earth
yellow-eye
yellow-eyed
yellow-eyed grass
yellow-eyed-grass family
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yellow-fever
yellow-fever fly
yellow-fever mosquito
yellow-fin
yellow-fingered
yellow-finned
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yellow-headed blackbird
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yellow-lit
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yellow-robed
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yellow-shanked
yellow-shouldered
yellow-skinned
yellow-skirted
yellow-speckled
yellow-splotted
yellow-spotted
yellow-sprinkled
yellow-stained
yellow-starched
yellow-stripped
yellow-tailed
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yellow-tinged
yellow-tinging
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yellow-tipped
yellow-toed
yellow-tressed
yellow-tufted
yellow-vented
yellow-washed
yellow-white
yellow-winged
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yellowish-amber
yellowish-brown
yellowish-colored
yellowish-gold
yellowish-gray
yellowish-green
yellowish-green-yellow
yellowish-haired
yellowish-orange
yellowish-pink
yellowish-red
yellowish-red-yellow
yellowish-rose
yellowish-skinned
yellowish-tan
yellowish-white
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yelly-hooing
yelp at
yen for
yeoman of the guard
yeoman service
yeoman's service
yeomen of the guard
yerba buena
yerba mansa
yerba mate
yerba reuma
yerba sagrada
yerba santa
yerba-mate
yerk out
yes indeed
yes indeedy
yes ma'am
yes man
yes sir
yes sirree
yes-and-no answer
yes-man
yes-no
yes-noer
yes-noism
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yester-
yester-year
yesterday and today and forever
yet again
yew berry
yew family
yew green
yew pine
yew tree
yew-besprinkled
yew-crested
yew-hedged
yew-leaved
yew-roofed
yew-shaded
yew-treed
yi tsing ware
yield a profit
yield again to
yield an aroma
yield an odor
yield assent
yield hope
yield point
yield strength
yield stress
yield the floor
yield the ghost
yield the palm
yield the spirit
yield to
yield to despair
yield to maturity
yield value
yield your breath
yielding a return
yielding prop
yill-caup
ylang-ylang
yo-heave-ho
yo-ho
yo-ho-ho
yo-kyoku
yo-yo
yoga trance
yohimbe bark
yoke bone
yoke devil
yoke elm
yoke front
yoke method
yoke riveter
yoke with
yoke-footed
yoke-toed
yolk bag
yolk boil
yolk cord
yolk duct
yolk gland
yolk nucleus
yolk plate
yolk plug
yolk sac
yolk stalk
yolk yellow
yom kippur
yom tob
yom tobs
yom tov
yom tovs
yomin tovim
yoo-hoo
york rite
yorkshire pudding
yorkshire terrier
you and me
you are mistaken
you are right
you are wrong
you bet
you bet your boots
you bet your life
you better believe it
you can bank on it
you can bet on it
you can bet your bottom dollar
you can just bet
you can make book on it
you can say that again
you can't go wrong
you don't say
you have another guess coming
you name it
you said a mouthful
you said it
you should live so long
you speak truly
you too
you're all wet
you're darn tootin'
you're not kidding
you're telling me
you're way off
you've got it
you've got me
you've got something there
you-all
you-be-damned
you-be-damnedness
you-know-what
you-know-who
you-uns
young animal
young bird
young blood
young buck
young cat
young chicken
young cow
young creature
young deer
young devil
young dog
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young generation
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young hopeful
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young lady
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young people
young person
young pig
young sheep
young thing
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young whippersnapper
young woman
young-bladed
young-chinned
young-conscienced
young-counseled
young-eyed
young-headed
young-ladydom
young-ladyfied
young-ladyhood
young-ladyish
young-ladyism
young-ladylike
young-ladyship
young-looking
young-manhood
young-manlike
young-manliness
young-manly
young-mannish
young-mannishness
young-manship
young-old
young-winged
young-womanhood
young-womanish
young-womanishness
young-womanlike
young-womanly
young-womanship
young-yeared
younger generation
youngest-born
your adieus
your all
your ancestors
your applecart
your best
your best effort
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your betters
your blind side
your blood
your crowd
your cup of tea
your days are numbered
your doom is sealed
your due
your fathers
your grain
your head off
your hour
your hour is come
yum-yum
z iron
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z-axes
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zeal-blind
zeal-consuming
zeal-inflamed
zeal-inspiring
zeal-pretending
zeal-quenching
zeal-scoffing
zeal-transported
zeal-worthy
zebra antelope
zebra bird
zebra caterpillar
zebra crossing
zebra finch
zebra fish
zebra grass
zebra opossum
zebra parakeet
zebra plant
zebra poison
zebra shark
zebra spider
zebra swallowtail
zebra wolf
zebra-back
zebra-plant
zebra-tailed
zebra-tailed lizard
zebrawood family
zebu cattle
zee bar
zeeman effect
zenaida dove
zend-avesta
zenith blue
zenith collimator
zenith distance
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zenith telescope
zenith tube
zenith-pole
zenith-pole arc
zenith-star arc
zenithal projection
zeph worsted
zephyr cloth
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zinc stearate
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zinc-coated
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Zkjfllep/mwords.tar.Z-cosi-expand-archive-j0s9lizx/mwords/256772co.mpo
No license file was found, but licenses were detected in source scan.

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Open Source Used In Cisco Cloud Mailbox Defense - CMD (Project Raptor) April 2021
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S. Dak.
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San Bernardino
San Blas
San Fernando
San Francisco
San Francisco Bay
San Ildefonso
San Jose scale
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San Marino
San Pedro Sula
San Remo
San Salvador
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Sanctus
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Sandalwood Island
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Santa Ana
Santa Anna
Santa Catalina
Santa Clara
Santa Claus
Santa Cruz
Santa Fe
Santa Gertrudis
Santa Isabel
Santa Maria
Santa Marta
Santayana
Santee
Santiago
Santiago de Cuba
Santiago del Estero
Santo Domingo
Santos-Dumont
Saorstat Eireann
Sapir
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Sardanapalus
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Shari
Sharon
Shasta daisy
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Tom Thumb
Tom and Jerry
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Tommy gun
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Upanishad
Upolu
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Upper Silesia
Upper Tunguska
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Urey
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Uriel
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Urmia
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Ursa Major
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Ursula
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Uru.
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Utica
Uto-Aztecan
Utopia
Utrecht
Utrillo
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V. Rev.
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Valdai Hills
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Valencia
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Valentine
Valentinian I
Valentino
Valera
Valkyrie
Valladolid
Valletta
Valley Forge
Vallombrosa
Valois
Valona
Valparaiso
Van
Van Allen belt
Van Buren
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Van Dyck
Van Gogh
Vance
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Vandal
Vanderbilt
Vandyke
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Vandyke brown
Vandyke collar
Vane
Vanir
Vanity Fair
Vanua Levu
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Vardar
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Wafid
Wagga Wagga
Wagner
Wagram
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Waldenburg
Waldenses
Waldheim
Waldorf salad
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Walfish Bay
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Wall Street
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Walpurgis Night
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Walter
Walvis Bay
Wandering Jew
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Wanhsien
Wanne-Eickel
War Between the States
War of 1812
War of Secession
War of the Austrian Succession
War of the Spanish Succession
Wellington boots
Wells
Welsh
Welsh corgi
Welsh dresser
Welsh rabbit
Welsh rarebit
Welsh springer spaniel
Welsh terrier
Weltanschauung
Weltpolitik
Weltschmerz
Wembley
Wenceslaus
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Wendish
Wensleydale
Wentworth
Wesley
Wesleyan
Wesleyanism
Wessex
West
West Berlin
West Bromwich
West End
West Flanders
West Germanic
West Germany
West Hartlepool
West Irian
West Pakistan
West Point
West Prussia
West Sussex
West Virginia
Western
Western Australia
Western Church
Western Hemisphere
Western Ocean
Western Roman Empire
Western Samoa
Westfalen
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Westminster
Westminster Abbey
Westmorland
Westphalia
Wetterhorn
Wexford
Weymouth
Wheatstone bridge
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White House
White Mountains
White Nile
White Russia
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White Sea
White Volta
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Whitsunday
Whitsuntide
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Wight
Wilberforce
Wild Hunt
Wild West
Wild West show
Wilde
Wilderness
Wilhelm I
Wilhelm II
Wilhelmstrasse
Wilkes
Wilkes Land
Wilkins
Willemstad
William I
William II
William the Conqueror
Williams
Williamsburg
Williamson
Wilmington
Wilson cloud chamber
Wilson's snipe
Wilton
Wiltshire
Wimshurst machine
Winchester
Wind River Range
Windermere
Windhoek
Windsor
Windsor chair
Windsor knot
Windsor tie
Windward Islands
Windward Passage
Winnebago
Winnipegosis
Wirephoto
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Worcester
Worcestershire
Wordsworth
World Bank
World Court
World Health Organization
World Series
World War I
World War II
Worms
Worship
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Yin and Yang
Yingkow
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Yokohama
Yom Kippur
Yonkers
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Yorkist
Yorkshire
Yorkshire pudding
Yorkshire terrier
Yorktown
Yoruba
Yosemite Falls
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Young Pretender
Young Turk
Young's modulus
Youngstown
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Yugoslavia
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Yukon time
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Zeno of Elea
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air-raid warden
air-sea rescue
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air-traffic control
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all hail
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automatic rifle
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automatic transmission
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ball game
ball lightning
ball mill
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ball valve
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banana oil
banana republic
banana split
bananas
banausic
banc
band
band saw
band shell
band spectrum
band-pass filter
bandage
bandanna
bandbox
bandeau
banded
banderilla
banderillero
banderoles
bandicoot
bandit
banditry
bandmaster
bandog
bandoleer
bandolier
bandoline
bandore
bandsman
bandstand
bandurria
bandwagon
bandwidth
bandy
bandy-legged
bane
baneberry
baneful
bang
bang on
bang-up
bangalore torpedo
banger
bangle
bangtail
bani
banian
banish
banister
banjo
bank
bank acceptance
bank account
bank balance
bank bill
bank check
bank clerk
bank discount
bank examiner
bank holiday
bank indicator
bank loan
bank manager
bank note
bank on
bank rate
bank statement
bank swallow
bankable
bankbook
banker
banker's check
banket
banking
bankroll
bankrupt
bankruptcy
banksia
banlieue
banner
banner cloud
banneret
bannergol
bannock
banns
banquet
banquette
bans
banshee
bant
bantam
bantamweight
banter
banting
bantling
banyan
banzai
banzai attack
baobab
baptism
baptism of fire
baptismal regeneration
baptistery
baptistry
baptize
bar
bar graph
bar line
bar magnet
bar mitzvah
bar sinister
bar.
barathea
barb
barbarian
barbaric
barbarism
barbarity
barbarize
barbarous
barbate
barbecue
barbecue sauce
barbed
barbed wire
barbel
barbell
barbellate
barber
barber chair
barber's itch
barberry
barbershop
barbet
barbette
barbican
barbicel
barbital
barbitone
barbiturate
barbituric acid
barbiturism
barbule
barbwire
barcarole
barchan
bard
barde
bare
bare-handed
bareback
barefaced
barefoot
barehanded
bareheaded
barely
baresark
barfly
bargain
bargain for
bargain-basement
barge
barge couple
barge course
bargeboard
bargello
bargeman
barghest
baric
barilla
barit.
barite
baritone
barium
barium hydroxide
barium oxide
barium sulfate
bark
bark beetle
barkeeper
barkentine
barker
barking deer
barley
barley sugar
barley water
barleycorn
barm
barmaid
barman
barmy
barn
barn dance
barn owl
barn swallow
barnacle
barnacle goose
barney
barnstorm
barnyard
baro-
barogram
barograph
barometer
barometric pressure
barometrograph
barometry
baron
baron of beef
baronage
baroness
baronet
baronetage
baronetcy
barong
baronial
barony
baroque
baroque organ
baroscope
barouche
barque
barquentine
barrack
barracks
barracks bag
barracoon
barracuda
barrage
barrage balloon
barramunda
barranca
barrator
barratry
barre
barred
barrel
barrel chair
barrel organ
barrel roll
barrel vault
barrel-chested
barrelhouse
barren
barrens
barret
barrette
barretter
barricade
barrier
barrier reef
barring
barrio
barrister
barroom
barrow
bartender
barter
bartizan
barton
barye
baryon
barya
barytes
baryton
barytone
bas bleu
bas mitzvah
basipetal
basis
bask
basket
basket chair
basket fern
basket hilt
basket weave
basket-handle arch
basketball
basketry
basketwork
basking shark
basophil
bass
bass clef
bass drum
bass guitar
bass horn
bass viol
bassarisk
basset
basset horn
bassinet
bassist
basso
basso cantante
basso continuo
basso profundo
basso-rilievo
bassoon
basswood
bast
bastard
bastard measles
bastard title
bastard wing
bastardize
bastardy
baste
bastille
bastínado
basting
bastion
bat
batch
bate
bateau
batfish
batfowl
bath
bath salts
bath towel
bathe
bathetic
bathhouse
bathing beauty
bathing suit
batho-
batholith
bathometer
bathos
bathrobe
bathroom
bathtub
bathtub gin
bathy-
bathyal
bathymetry
bathypelagic
bathyscaphe
bathysphere
batik
batiste
batman
baton
batrachian
bats
batsman
batt
battalion
battement
batten
batter
battering ram
battery
battik
batting
battle
battle cruiser
battle cry
battle fatigue
battle group
battle lantern
battle line
battle royal
be-all and end-all
beach
beach ball
beach buggy
beach flea
beach grass
beach plum
beach umbrella
beach wagon
beachcomber
beachhead
beacon
bead
bead-ruby
beaded
beading
beadle
beadedom
beadroll
beadsman
beady
beagle
beak
beaker
beam
beam antenna
beam compass
beam wind
beam-ends
beam-power tube
beaming
beamy
bean
bean caper
bean sprout
bean tree
beanery
beanfeast
beanie
beano
beanpole
beanstalk
bear
bear down
bear garden
bear hug
bear off
bear on
bear out
bear up
bear with
bear's-ear
bear's-foot
bearable
bearberry
bearcat
beard
bearded
bearded darnel
bearded lizard
bearded tit
bearded vulture
beardless
bearer
bearing
bearing plate
bearing rein
bearish
bearskin
bearwood
beast
beast of burden
beastings
beastly
beat
beat down
beat up
beat-up
beaten
beater
beatific
beatification
beatify
beating
beatitude
beatnik
beau
beau geste
beau ideal
beau monde
beaut
beauteous
beautician
beautiful
beautifully
beautify
beauty
beauty parlor
beauty queen
beauty salon
beauty sleep
beauty spot
beaux
beaver
beaverette
bebeerine
bebeeru
bebop
becalm
becalmed
became
because
beccafico
bechance
becharm
beck
becket
becket bend
beckon
becloud
become
becoming
bed
bed and board
bed chair
bed jacket
bed linen
bed of roses
bedabble
bedaub
bedazzle
bedbug
bedchamber
bedclothes
bedcover
bedder
bedding
bedeck
bedel
bedesman
bedevil
bedew
bedfast
bedfellow
bedight
bedim
bedizen
bedlam
bedlamite
bedmate
bedpan
bedplate
bedpost
bedrable
bedraggle
bedraggled
bedrail
bedridden
bedrock
bedroll
bedroom
bedside
bedsore
bedspread
bedspring
bedstead
bedstraw
bedtime
bedtime story
bedwarmer
bee
bee beetle
bee fly
bee glue
bee killer
bee moth
bee plant
bee tree
bee-eater
beebread
beech
beech fern
beechnut
beef
beef cattle
beef extract
beef tea
beef-witted
beefburger
beefcake
beefeater
beefsteak
begone
begonia
begorra
begot
begotten
begrime
begrudge
beguile
beguine
begum
begun
behalf
behave
behavior
behavior pattern
behavioral science
behaviorism
behead
beheld
behemoth
behest
behind
behindhand
behold
beholden
behoof
behoove
beige
being
bejewel
bel
bel canto
bel-esprit
belabor
belated
belaud
belay
belaying pin
belch
beldam
beleaguer
belemnite
belfry
belga
belie
belief
believe
belike
belittle
bell
bell buoy
bell glass
bell heather
bell jar
bell metal
bell pepper
bell tent
bell-bottoms
bell-ringer
belladonna
belladonna lily
bellarmine
bellbird
bellboy
belle
belles lettres
belles-lettres
belletrist
bellflower
bellhop
bellicose
bellied
belligerence
belligerency
belligerent
bellman
bellow
bellows
bellows fish
bells of Ireland
bellwether
bellwort
belly
belly dance
belly flop
belly landing
belly laugh
bellyache
bellyband
bellybutton
bellyful
belomancy
belong
belonging
belongings
beloved
below
belt
belted
belting
beluga
belvedere
bema
bemean
bemire
bemoan
bemock
bemuse
bemused
ben
ben trovato
bename
bench
bench mark
bench warrant
bencher
bend
bend sinister
bender
bendwise
bendy
beneath
benedicite
benedict
benediction
benefaction
benefactor
benefactress
benefic
benefice
beneficence
beneficent
beneficial
beneficiary
benefit
benefit of clergy
benempt
benevolence
benevolent
bengaline
benighted
benign
benignant
benignity
bewilderment
bewitch
bewray
bey
beyond
bezant
bezel
bezique
bezoar
bezonian
bhakti
bhang
bharal
bi-
bialy
biannual
biannulate
bias
biased
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bib
bib and tucker
bibb
bibber
bibcock
bibelot
bibl.
biblio-
biblioclast
bibliofilm
bibliog.
bibliogony
bibliographer
bibliography
bibliolatry
bibliology
bibliomancy
bibliomania
bibliopegy
bibliophage
bibliophile
bibliopole
bibiotaph
bibliotheca
bibliotherapy
bibulous
bicameral
bicapsular
bicarb
bicarbonate
bicarbonate of soda
bice
bicentenary
bicentennial
bicephalous
biceps
bichloride
bichloride of mercury
bichromate
bicipital
bicker
bickering
bicollateral
bicolor
biconcave
biconvex
bicorn
bicuspид
bicycle
bicycle pump
bicycle race
bicyclic
bid
bid price
bid up
bidarka
biddable
bidden
bidding
bidding prayer
biddy
bide
bidentate
bidet
bield
biennial
bier
biestings
bifacial
bifarious
biff
biffin
bifid
bifilar
biflagellate
bifocal
bifocals
bifoliate
bifoliolate
biforate
biforked
biform
bifurcate
big
big band
big business
big cheese
big end
big game
big gun
big idea
big name
big noise
big shot
big stick
big talk
big time
big top
big tree
big wheel
big-bang theory
big-name
bigamist
bigamous
bigamy
bigener
bigeye
biggin
bighead
bighorn
bight
bigmouth
bignonia
bignoniaceous
bigot
bigoted
bigotry
bigwig
bijection
bijou
bijouterie
bijugate
bikini
bilabial
bilabiate
bilander
bilateral
bilateral symmetry
bilberry
bilbo
bile
bilection
bilestone
bilge
bilge keel
bilharziasis
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bilingual
bilious
bilk
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bill of attainder
bill of exchange
bill of fare
bill of health
bill of indictment
bill of lading
bill of particulars
bill of sale
billabong
billboard
billbug
billet
billet-doux
billfish
billfold
billhead
billhook
billiard
billiard ball
billiard parlor
billiard table
billiards
billing
billingsgate
billion
billionaire
billion
billow
billowy
billposter
billy
billy club
billy goat
billycock
bilobate
bilocular
biltong
bimah
bimanous
bimbo
bimestrial
bimetallic
bimetallism
bimolecular
bimonthly
bin
bin-
binal
binary
binary code
binary digit
binary fission
binary form
binary star
binary system
bine
binaural
bind
bind over
binder
bindery
binding
binding energy
bindle
bindweed
bine
binge
binghi
bingle
bingo
binnacle
binocular
binocular
binoculars
binomial
binomial distribution
binomial nomenclature
binomial theorem
binominal
binturong
binucleate
bio-
bioastronautics
biocatalyst
biocellate
biochemical oxygen demand
biochemistry
bioclimatology
biodegradable
biodynamics
bioecology
bioenergetics
biofeedback
biog.
biogen
biogenesis
biogeochemistry
biogeography
biographer
biographical
biography
biol.
biological
biological clock
biological warfare
biologist
biology
bioluminescence
biolysis
biomass
biome
biomedicine
biometrics
biometry
bionics
bionomics
biophysics
bioplasm
biopsy
bioscope
bioscopy
biosphere
biostatics
bit
bit part
bitartrate
bitch
bitchy
bite
biting
biting midge
bitstock
bitt
bitten
bitter
bitter apple
bitter end
bitter orange
bitter principle
bitterling
bittern
bitternut
bitterroot
bitters
bittersweet
bitterweed
bitty
bitumen
bituminize
bituminous
bituminous coal
bivalent
bivalve
bivouac
biweekly
biyearly
biz
bizarre
bk.
bkey.
bkg.
bks.
bl.
blab
blabber
blabbermouth
black
black and white
black art
black bass
black bear
black walnut
black whale
black widow
black-and-blue
black-and-white
black-backed gull
black-eyed Susan
black-eyed pea
black-market
black-marketeer
blackamoor
blackball
blackberry
blackbird
blackboard
blackcap
blackcock
blackdamp
blacken
blackface
blackfellow
blackfish
blackguard
blackguardly
blackhead
blackheart
blacking
blackjack
blackleg
blacklist
blackmail
blackness
blackout
blackpoll
blacksmith
blacksnake
blackstrap molasses
blacktail
blackthorn
blacktop
blackwater fever
bladder
bladder campion
bladder ketmia
bladder worm
bladdernose
bladdernut
bladderwort
blue vitriol
blue whale
blue-collar
blue-eyed Mary
blue-eyed grass
blue-green
blue-green algae
blue-pencil
blue-ribbon jury
blue-sky law
bluebell
blueberry
bluebill
bluebird
bluebonnet
bluebottle
bluecoat
bluefish
bluegill
bluegrass
blueing
bluejacket
blueness
bluenose
bluepoint
blueprint
blues
bluestocking
bluestone
bluet
bluetongue
blueweed
bluey
bluff
bluing
bluish
blunder
blunderbuss
blunge
blunger
blunt
blur
blurb
blurt
blush
bluster
bo tree
bo's'n
boa
boa constrictor
boar
board
board foot
board measure
board of education
board of trade
board rule
board school
boarder
boarding
boarding school
boardinghouse
boardwalk
boarfish
boarhound
boarish
boart
boast
boaster
boastful
boat
boat deck
boat hook
boat neck
boat race
boat train
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boatel
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boathouse
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boatload
boatman
boatsman
boatswain
boatswain's chair
boatyard
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bob skate
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bobbin
bobbin lace
bobbinet
bobble
bobby
bobby pin
bobbysocks
bobbysoxer
bobcat
bobolink
bobsled
bobsledding
bobsleigh
bobstay
bobwhite
bocage
boccie
bock beer
bod
bode
bodega
bodgie
bodice
bodiless
bodily
boding
bodkin
body
body blow
body cavity
body corporate
body language
body politic
body snatcher
body stocking
bodycheck
bodyguard
bodywork
boffin
bog
bog asphodel
bog down
bog oak
bogbean
bogey
bogeyman
boggart
boggle
bogie
bogle
bogtrotter
bogus
bogy
bohunk
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bombazine
bombe
bomber
bombproof
bombshell
bombsight
bombycid
bon mot
bon ton
bon vivant
bon voyage
bona fide
bona fides
bonanza
bonbon
bond
bond paper
bondage
bonded
bonded warehouse
bondholder
bondmaid
bondman
bondsman
bondstone
bondswoman
bondwoman
bone
bone ash
bone china
bone meal
bone of contention
bone oil
bone-dry
boneblack
bonefish
bonehead
boner
boneset
bonesetter
boneyard
bonfire
bongo
bonhomie
bonito
bonkers
bonne
bonne bouche
bonne foi
bonnet
bonnet monkey
bonnet rouge
bonny
bonnyclabber
bonsai
bonspiel
bontebok
bonus
bony
bony labyrinth
bonze
bonzer
boo
boo-boo
boob
booby
booby hatch
booby prize
booby trap
boodle
boogeyman
boogie
boogie-woogie
boohoo
book
book club
book end
book jacket
book learning
book of account
book review
book scorpion
book value
bookbinder
bookbindery
bookbinding
bookcase
bookcraft
bookie
booking
booking office
bookish
bookkeeper
bookkeeping
booklet
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boozy
bop
bor.
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boracite
borage
boraginaceous
borak
borate
borax
borborygmus
bordello
border
border line
bordereau
borderer
borderland
borderline
bordure
bore
boreal
borecole
boredom
borehole
borer
boresome
boric
boric acid
boride
boring
born
borne
borneol
bornite
boron
boron carbide
borosilicate
borough
borough-English
borrow
borrowing
borsch
borscht
borscht circuit
borstal
bort
borzoi
boscage
boschbok
boschvark
bosh
bosk
bosket
bosky
bosom
bosomed
bosomy
boson
bosquet
boss
bossa nova
bossism
bossy
bosun
bot
bot.
botanical
botanical garden
botanist
botanize
botanomancy
botany
botch
botchy
botel
botfly
both
bother
botheration
bothersome
bothy
botryoidal
bots
bott
bottle
bottle glass
bottle green
bottle party
bottle tree
bottle up
bottleneck
bottom
bottom drawer
bottomless
brake drum
brake horsepower
brake lining
brake parachute
brake shoe
brakeman
brakesman
bramble
brambling
brambly
bran
branch
branch line
branch out
branched chain
branchia
branching
branchiopod
brand
brand-new
brandish
brandling
brandy
branks
branle
branny
brant
brash
brashy
brasier
brasilein
brasilin
brass
brass band
brass hat
brass knuckles
brass tacks
brassard
brassbound
brasserie
brassicca
brassie
brassiere
brassware
brassy
brat
brattice
brattishing
bratwurst
braunite
bravado
brave
bravery
bravissimo
bravo
bravura
braw
brawl
brawn
brawny
braxy
bray
brayer
braze
brazen
brazen-faced
brazier
brazil
brazilein
brazilin
breach
breach of promise
breach of trust
bread
bread and butter
bread knife
bread mold
bread-and-butter pickle
breadbasket
breadboard
breadfruit
breadnut
breadroot
breadstuff
breadth
breadthways
breadwinner
break
break and entry
break down
break in
break into
break of day
break out
break through
break up
bride
bride price
bridegroom
bridesmaid
bridewell
bridge
bridge deck
bridge lamp
bridgeboard
bridgehead
bridgework
bridging
bridle
bridle path
bridlewise
bridoon
brief
briefcase
briefing
briefless
briefs
brier
brierroot
brierwood
brig
brigade
brigadier
brigadier general
brigand
brigandage
brigandine
brigantine
bright
brighten
brightness
brightwork
brill
brilliancy
brilliance
brilliant
brilliantine
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brimstone
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brindled
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broadbill
broadbrim
broadcast
broadcaster
broadcasting
broadcloth
broaden
broadleaf
broadloom
broadside
broadsword
broadtail
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brocatel
broccoli
broch
brochette
brochure
brock
brocket
brogan
brogue
broider
broil
broiler
broke
broken
broken heart
broken wind
broken-down
brokenhearted
broker
brokerage
brolly
bromal
bromate
brome grass
bromeosin
bromic
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bromide
bromide paper
bromidic
brominate
bromine
bromism
bromo-
bromoform
brown coal
brown rat
brown rice
brown rot
brown sauce
brown study
brown sugar
brown thrasher
brown trout
brown-nose
brown-tail moth
browned-off
brownie
browning
brownout
brownstone
browse
brucellosis
brucine
brucite
bruin
bruise
bruiser
bruit
brumal
brumby
brume
brunch
brunch coat
brunet
brunette
brunt
brush
brush aside
brush discharge
brush off
brush turkey
brush up
brush-off
brushwood
brushwork
brusque
brusquerie
brut
brutal
brutality
brutalize
brute
bulletin
bulletin board
bulletproof
bullfight
bullfighter
bullfinch
bullfrog
bullhead
bullheaded
bullhorn
bullion
bullish
bullnose
bullock
bullpen
bullring
bullshit
bullwhip
bully
bully beef
bullyboy
bullyrag
bulrush
bulwark
bum
bum's rush
bumbailiff
bumble
bumblebee
bumbledom
bumbling
bumboat
bumf
bumkin
bummalo
bummer
bump
bump into
bump off
bumper
bumpkin
bumptious
bumpy
bun
bunch
bunch grass
bunch light
bunchy
bunco
buncombe
bund
bundle
bundle of isoglosses
bundle up
bung
bungalow
bunghole
bungle
bunion
bunk
bunk bed
bunker
bunkhouse
bunkmate
bunko
bunkum
bunny
bunny hug
bunt
bunting
buntline
bunya-bunya
bunyip
buoy
buoyage
buoyancy
buoyant
buprestid
bur
bur marigold
bur oak
bur reed
buran
burble
burbot
burden
burden of proof
burdened
burdensome
burdock
bureau
bureaucracy
bureaucrat
bureaucratic
bureaucratize
burette
burnt
burnt almond
burnt offering
burnt sienna
burnt umber
burp
burp gun
burr
burro
burrow
burstone
burry
bursa
bursar
bursarial
bursary
burse
burseraceous
bursiform
bursitis
burst
burstone
burthen
burton
burweed
bury
burying beetle
burying ground
bus
bus.
busboy
busby
bush
bush house
bush jacket
bush pilot
bush telegraph
bush wren
bushbuck
bushcraft
bushed
bushel
bushelman
bushhammer
bushing
bushman
bushmaster
bushranger
butchery
butene
butler
butlery
butt
butt hinge
butt joint
butt plate
butt shaft
butt weld
butte
butter
butter bean
butter muslin
butter up
butter-and-eggs
butterball
butterbur
buttercup
butterfat
butterfingers
butterfish
butterflies
butterfly
butterfly bush
butterfly valve
butterfly weed
buttermilk
butternut
butternut squash
butterscotch
butterwort
buttery
buttock
buttocks
button
button quail
button tree
button up
buttonball
buttonhole
buttonhole stitch
buttonhook
buttons
buttonwood
buttress
butyl
butyl alcohol
butylene
butyrate
butyraldehyde
butyric acid
butyric
buxom
buy
buy in
buy into
buy off
buy out
buy up
buyer
buyers' market
buying power
buzz
buzz bomb
buzz off
buzz saw
buzzard
buzzer
bwana
bx.
by
by and by
by and large
by-
by-and-by
by-bidder
by-blow
by-election
by-line
by-play
by-product
by-your-leave
bye
bye-bye
byelaw
bygone
bylaw
bypass
hypath
byre
byrne
byroad
byssinosis
byssus
cable railway
cable release
cable ship
cable stitch
cablegram
cablet
cableway
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cabob
cabochon
caboodle
caboose
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cabriolet
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cache
cachepot
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cachexia
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cachucha
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cackle
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cadastre
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 cadaverous
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caddis fly
caddish
caddy
cade
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cadency
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cadent
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cadet
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cadmium yellow
cadre
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caducity
caducous
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caecum
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caesium
caespitose
caesura
cafard
cafeteria
caffeine
caftan
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cagey
cahier
cahoot
caiman
cain
caird
cairn
cairngorm
caisson
caisson disease
caitiff
calcium chloride
calcium cyanamide
calcium cyclamate
calcium hydroxide
calcium light
calcium oxide
calcium phosphate
calculable
calculate
calculated
calculated risk
calculating
calculating machine
calculation
calculator
calculus
calculable

calculus of variations
caldarium
caldera
caldron
calefacient
calefaction
calefactory
calendar
calendar clock
calendar day
calendar month
calendar watch
calendar year
calender
calends
calendula
calenture
calf
calf love
calf's-foot jelly
calfskin
caliber
calibrate
calibre
calibre
calices
caliche
calicle
calico
calico bush
calico cat
calif
califate
californium
caliginous
calipash
calipee
caliper
caliph
caliphat
calisaya
calisthenics
calix
calk
call
call box
call down
call forth
call girl
call in
call letters
call loan
call money
call number
call off
call out
call rate
call slip
call up
call-board
call-up
calla
callable
callant
callboy
caller
calli-
calligraphy
calling
calling card
calliope
calliopsis
callipash
calliper
callipygian
callisthenics
callosity
callous
callow
callus
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calumniation
calumnious
calumny
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calvaria
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calvities
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calypso
calyptra
calyptrogen
calyx
cam
camail
camaraderie
camarilla
camass
camber
Cambist
Cambium
Cambogia
Camboose
Cambrel
Cambric
Came
Camel
Camel's hair
Camelback
Cameleer
camellia
camelopard
cameo
cameo glass
cameo ware
camera
camera lucida
camera obscura
camera tube
cameral
cameraman
camerlengo
camino real
camion
camisado
camise
camisole
camlet
camomile
camouflage
camp
camp bed
camp chair
camp follower
camp meeting
camp stove
campaign
campaign fund
campaign hat
campanile
campanology
campanula
campanulaceous
campanulate
camper
campestral
campfire
campground
camphene
camphor
camphor ball
camphor ice
camphor tree
camphorate
camphorated oil
campion
campo
campo santo
candlenut
candlepin
candlepower
candlestand
candlestick
candlewick
candlewood
candor
candy
candy store
candy-striped
candytuft
cane
cane sugar
canebrake
canella
canescent
canfield
cangue
canicular
canikin
canine
caning
canister
canker
canker sore
cankered
cankerous
cankerworm
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cannabis
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cannel coal
cannelloni
canner
cannery
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cannibalism
cannibalize
cannikin
canning
cannon
cannon bone
cannon cracker
cannon fodder
cannon shot
cannonade
cannonball
cannoneer
cannonry
cannot
cannula
cannular
canny
canoe
canoewood
canon
canon law
canoness
canonical
canonical hour
canonicals
canonicate
canonicity
canonist
canonize
canonry
canoodle
canopy
canorous
canso
canst
cant
cant hook
cantabile
cantaloupe
cantankerous
cantata
cantatrice
canteen
canter
cantharides
canthus
canticle
cantilena
cantilever
cantilever bridge
cantillate
cantina
canting arms
cantle
canto
canton
cantonment
cantor
cantoris
cantrip
cantus
cantus firmus
canty
canula
canvas
canvasback
canvass
canyon
canzona
canzone
canzonet
cauoutchouc
cap
cap and bells
cap and gown
cap cloud
cap of estate
cap of maintenance
cap rock
cap screw
cap-a-pie
cap.
capability
capable
capacious
capacitance
capacitate
capacitive reactance
capacitor
capacity
caparison
cape
cape gooseberry
capelin
caper
capercaillie
capeskin
capful
capias
capillaceous
capillarity
capillary
capillary tube
capita
capital
capital account
capital expenditure
capital gain
capital gains tax
capital goods
capital levy
capital punishment
capital ship
capital stock
capital surplus
capitalism
capitalist
capitalistic
capitalization
capitalize
capitally
capitate
capitation
capitol
capitular
capitulary
capitulate
capitulation
capitulum
caplin
capo
capon
caponize
caporal
capote
caparidaceous
capper
capping
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capreolate
capriccio
capriccioso
caprice
capricious
caprification
caprific
caprifoliaceous
caprine
capriole
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caps.
capsaicin
capsicum
capsize
carbylamine
carcajou
carcanet
carcass
carcinogen
carcinoma
carcinomatosis
card
card catalog
card index
card punch
card table
card vote
card-carrying
cardamom
cardboard
cardholder
cardiac
cardialgia
cardigan
cardinal
cardinal flower
cardinal number
cardinal points
cardinal virtues
cardinalate
carding
 cardio-
cardiogram
cardiograph
cardioid
cardiology
cardiomegaly
cardiomegaly
cardiovascular
carditis
cardoon
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cardsharp
 carduaceous
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career
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careerist
carefree
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caress
caressive
caret
caretaker
careworn
carfare
cargo
carhop
caribou
caricature
caries
carillon
carillonneur
carina
carinate
carioca
cariole
carious
caritas
cark
carl
carline
carling
carload
carmagnole
carman
carminative
carmine
carnage
carnal
carnal knowledge
carnallite
carnassial
carnation
carnauba
carnelian
carnet
carnify
carnival
carnivore
carnivorous
carnotite
carny
carob
caroche
carol
carolus
carom
carotene
carrier pigeon
carriole
carrion
carrion crow
carrion flower
carron oil
carronade
carrot
carrot oil

carrousel
carry
carry away
carry back
carry off
carry on
carry out
carry over
carry through
carry all
carrying charge
carrying-on
carse
carsick
cart
cart horse
cartage
carte
carte blanche
carte de visite
carte du jour
cartel
cartelize
cartilage
cartilage bone
cartilaginous
cartload
cartogram
cartography
cartomancy
carton
cartoon
cartouche
cartridge
cartridge belt
cartridge brass
cartridge clip
cartridge paper
cartridge pen
castoff
castor
castor bean
castor oil
castor-oil plant
castrate
castration complex
castrato
casual
casualty
casualty insurance
casuist
casuistry
casus belli
cat
cat brier
cat burglar
cat nap
cat rig
cat whisker
cat's cradle
cat's-ear
cat's-eye
cat's-foot
cat's-paw
cat's-tail
cat-and-dog
cat-eyed
cat-o'-mountain
cat-o'-nine-tails
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cata-
catabasis
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catachresis
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catafalque
catalase
catalectic
catalepsy
catalo
catalog
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catechize
catechol
catechu
catechumen
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categorize
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catenate
catenoid
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cater-cousin
cateran
catercorner
caterer
catering
caterpillar
caterpillar hunter
caterwaul
catfall
catfish
catgut
cath-
catharsis
cathartic
cathead
cathedral
cathepsin
catheter
catheterize
cathexis
cathode
cathode glow
cathode ray
cathode-ray tube
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cathodoluminescence
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catholicize
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cation
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catling
catmint
catnap
catnip
catoptrics
catsup
cattail
cattalo
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cattish
cattle
cattle egret
cattle plague
cattleman
cattleya
catty
catty-cornered
catwalk
cacus
cauda
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caudal
caudal fin
caudate
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caudle
ccaught
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cauldron
caulescent
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cauliflower ear
cauline
culis
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causality
causation
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cause
causerie
causeuse
causeway
causey
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cauterant
cauterize
cautery
caution
caution money
cautionary
cautious
cavalcade
cavalier
cavalierly
cavalla
cavalry
cavalry twill
cavalryman
cavatina
cave
cave art
cave dweller
cave in
cave-in
caveat
caveat emptor
caveator
cavefish
caveman
cavendish
cavern
cavernous
cavesson
cavetto
caviar
cavicorn
cavie
cavil
cavitation
cavity
cavity resonator
cavo-relievo
cavo-rilievo
cavort
cavy
caw
cay
cayenne
cayenne pepper
cayman
cayuse
cc.
cd
cd.
cease
cease-fire
ceaseless
cecity
cecum
cedar
cedar of Lebanon
cedar waxwing
cede
cedilla
ceiba
ceil
ceilidh
ceiling
ceiling light
ceilometer
celadon
celandine
celebrant
celebrate
celebrated
celebration
celebrity
celeriac
celerity
celery
celery salt
celesta
celestial
celestial equator
celestial globe
celestial guidance
celestial horizon
celestial latitude
celestial longitude
celestial mechanics
celestial navigation
celestial pole
celestial sphere
celestite
celiac
celibacy
celibate
central
centare
centaur
centaury
centavo
centenarian
centenary
centennial
center
center of buoyancy
center of curvature
center of effort
center of flotation
center of gravity
center of mass
center of percussion
center of pressure
center of symmetry
center punch
centerboard
centering
centerpiece
centesimal
centesimo
centi-
centiaire
centigrade
centigram
centimeter
centiliter
centillion
centime
centimeter
centipede
centipoise
centistere
centner
cento
centra
central
central angle
central bank
central heating
central nervous system
central sulcus
centralism
centrality
centralization
centralize
centre
centreboard
centre-piece
cen-tric
cen-trifugal
cen-trifugal force
cen-trifuge
cen-tring
cen-triole
cen-tripetal
cen-tripetal force
cen-trist
cen-tro-
cen-tro-baric
cen-tro-clinal
cen-troid
cen-tromere
cen-tosome
cen-tosphere
cen-trosymmetric
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cen-tuple
cen-tuplicate
cen-turial
cen-turion
cen-tury
cen-tury plant
ceorl
cephalad
cephalalgia
cephalic
cephalic index
cephalization
cephalo-
cephalo-chordate
cephalometer
cephalopod
cephalothorax
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ceramal
ceramic
ceramics
ceramist
cerargyrite
cerate
cerated
ceratodus
ceratoid
cercaria
cercus
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cerebration
cerebritis
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cerebrum
cerecloth
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ceremonious
ceremony
ceresin
cereus
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cerise
cerium
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cernuous
cero
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ceroplastics
cerotic acid
cerotype
cerous
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certainly
certainty
certes
certifiable
certificate
certificate of deposit
chalky
challah
challenge
challenging
challis
chalone
chalutz
chalybeate
chalybite
cham
chamade
chamber
chamber concert
chamber music
chamber of commerce
chamber orchestra
chamber pot
chambered nautilus
chamberlain
chambermaid
chambers
chambray
chameleon
chamfer
chamfer bit
chamfron
chammy
chamois
chamomile
champ
champac
champaca oil
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champert
chamignon
champion
championship
chance
chance-medley
chancel
chancellery
chancellor
chancellorship
chancery
chancre
chancroid
chancy
chandelier
chandelle
chandler
chandlery
change
change of life
change of venue
change ringing
change-up
changeable
changeful
changeless
changeling
changeover
changing bag
channel
channel iron
channelize
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chanson de geste
chant
chanter
chanterelle
chanteuse
chantey
chanticleer
chantress
chantry
chanty
chaos
chaotic
chap
chap.
chaparajos
chaparral
chaparral pea
chapatti
chapbook
chape
chapeau
chapeau bras
chapel
chapel of ease
chaperon
chaperone
chapfallen
chapiter
chaplain
cheekpiece
cheeky
cheep
cheer
cheerful
cheerio
cheerleader
cheerless
cheerly
cheery
cheese
cheeseburger
cheesecake
cheesecloth
cheeseparing
cheesewood
cheesy
cheetah
chef
chef de cuisine
cheiro-
chela
chelate
chelicera
cheliform
cheloid
chelonian
chem-
chem.
chemical
chemical engineering
chemical potential
chemical warfare
chemiluminescence
chemin de fer
chemise
chemisette
chemism
chemisorb
chemisorption
chemist
chemistry
chemmy
chemo-
chemoprophylaxis
chemoreceptor
chemosmosis
chemosphere
chemosynthesis
chemotaxis
chemotherapy
chemotropism
chemurgy
chenille
chenopod
cheongsam
cheque
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chequerboard
chequered
cherimoya
cherish
cheroot
cherry
cherry bomb
cherry laurel
cherry picker
chersonese
chert
cherub
chervil
chervonets
chess
chessboard
chessman
chest
chest of drawers
chest of viols
chest voice
chest-on-chest
chesterfield
chestnut
chesty
chetah
cheval glass
cheval-de-frise
chevalier
chevet
cheviot
chevrette
chevron
chevrotain
chevy
chew
chew out
chew over
chief warrant officer
chiefly
chieftain
chiffchaff
chiffon
chiffonier
chifforobe
chigetai
chigger
chignon
chigoe
chilblain
child
child psychology
child's play
childbearing
childbed
childbed fever
childbirth
childe
childhood
childish
childlike
children
chile
chili
chili con carne
chili pepper
chili sauce
chiliad
chiliarch
chiliasm
chill
chiller
chilli
chilly
chilopod
chimaera
chimb
chime
chime in
chimera
chimere
chimerical
chimney
chimney corner
chimney swallow
chimney sweep
chimney swift
chimp
chimpanzee
chin
chin-chin
china
china bark
china clay
chinaberry
chinaware
chinaware
chinapin
chinch
chinch bug
chinchilla
chinchy
chine
chinfest
chink
chinkapin
chino
chinoiserie
chinook
chinquapin
chintz
chintzy
chip
chip in
chip log
chip shot
chipboard
chipmunk
chipped beef
chipper
chipping sparrow
chippy
chirk
chirm
chiro-
chirography
chiromancy
chiropodist
chiropody
chiropractic
chiropractor
chiropteran
chirp
chirpy
chirr
chlorosis
chlorothiazide
chlorous
chlorous acid
chlorpromazine
chlorotetracycline
chm.
choanocyte
chock
chock-a-block
chock-full
chocolate
choice
choir
choir loft
choir school
choirboy
choirmaster
choke
choke coil
choke up
choke-full
chokeberry
chokebore
chokecherry
chokedamp
choker
choking
chole-
cholecalciferol
cholecyst
cholecystectomy
cholecystitis
cholecystotomy
cholent
 cholera
cholera morbus
choleric
cholesterol
choli
cholic acid
choline
cholinesterase
cholla
chomp
chon
chondriosome
chondrite
chondro-
chondroma
chondrule
choo-choo
chook
choose
choosey
choosy
chop
chop chop
chop suey
chopfallen
chophouse
chopine
choplogic
chopper
chopping
choppy
chops
chopstick
choragus
choral
chorale
chorale prelude
chord
chordate
chordophone
chore
chore boy
choria
chorodrama
choreograph
choreographer
choreography
choriamb
choric
choriocarcinoma
chorion
chorister
chorizo
chorography
choroid
choroiditis
chortle
chorus
chorus boy
chorus girl
chose
chosen
chosen people
chou
chough
chow
chow chow
chow mein
chow-chow
chowder
chrestomathy
chrism
chrismatory
chrisom
christcross
christcross-row
christen
christening
chroma
chromate
chromatic
chromatic aberration
chromatic scale
chromaticity
chromaticity diagram
chromaticness
chromatics
chromatid
chromatin
chromatism
chromato-
chromatogram
chromatograph
chromatography
chromatology
chromatolysis
chromatophore
chrome
chrome alum
chrome green
chrome red
chrome steel
chrome yellow
chromic
chromic acid
chrominance
chromite
chromium
cinema
cinematograph
cinematography
cineraria
cinerarium
cinerary
cinerator
cinereous
cingulum
cinnabar
cinnamic acid
cinnamon
cinnamon bear
cinnamon stone
cinquain
cinque
cinquecento
cinquefoil
cipher
cipolin
cir.
circa
circadian
circinate
circle
circlet
circuit
circuit binding
circuit breaker
circuit judge
circuit rider
circuitous
circuitry
circuity
circular
circular function
circular measure
circular mil
circular polarization
circular saw
circular triangle
circularize
circulate
circulating capital
circulating decimal
circulating library
circulating medium
circulation
circum-
circumambient
circumambulate
circumbendibus
circumcise
circumcision
circumference
circumferential
circumflex
circumfluent
circumfluous
circumfuse
circumgyration
circumjacent
circumlocution
circumlunar
circumnavigate
circumnutate
circumpolar
circumrotate
circumscissile
circumscribe
circumscription
circumsolar
circumspect
circumspection
circumstantial
circumstantial evidence
circumstantiality
circumstinate
circumvallate
circumvent
circumvolution
circus
cire perdue
cirque
cirrate
cirrhosis
cirro-
cirrocumulus
cirrose
cirrostratus
cirrus
cirroid
cis-
cisalpine
cisco
clammy
clanor
clamorous
clamp
clamper
clamshell
clamworm
clan
clandestine
clang
clangor
clank
clannish
clansman
clap
clap on
clapboard
clapper
clapperclaw
claptrap
claque
claqueur
clarabella
clarence
claret
claret cup
clarify
clarinet
clarino
clarion
clarity
clarkia
claro
clarsach
clary
clash
clasp
clasp knife
clasping
class
class consciousness
class struggle
class.
classic
classical
classical conditioning
classical economics
classicism
clean-shaven
cleaner
cleaning
cleaning woman
cleanly
cleanse
cleanser
cleansing tissue
cleanup
clear
clear away
clear off
clear out
clear up
clear-air turbulence
clear-cut
clear-eyed
clear-sighted
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clearcole
clearheaded
clearing
clearing house
clearly
clearness
clearstory
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click beetle
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clientage
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cliff swallow
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climate
climatology
climax
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climber
climbing fern
climbing irons
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clingfish
clinging vine
clingstone
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close down
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close quarters
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close-grained
close-hauled
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close-lipped
close-stool
close-up
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closed corporation
closed primary
closed shop
closed-circuit television
closed-end investment company
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closet
closet drama
closing
clostridium
closure
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clothbound
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clothes
clothes moth
clothes pole
clothes tree
clothesbasket
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cockboat
cockchafer
cockcrow
cocked hat
cocker
cocker spaniel
cockerel
cockeye
cockeyed
cockfight
cockhorse
cockiness
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cockloft
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cockpit
cockroach
cockscomb
cockshy
cockspur
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cocktail hour
cocktail lounge
cocktail party
cocktail table
cockup
cooky
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cocoa
cocoa bean
cocoa butter
coconut
coconut butter
coconut oil
coconut palm
cocoon
cocotte
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coin silver
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cold chisel
cold comfort
cold cream
cold cuts
cold duck
cold feet
cold frame
cold front
cold light
cold pack
cold rubber
cold shoulder
cold snap
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colonnade
colony
colophon
colophony
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color blindness
color filter
color line
color scheme
color sergeant
color-blind
colorable
colorado
colorant
coloration
coloratura
colorcast
colored
colorfast
colorful
colorific
colorimeter
coloring
coloring book
colorist
colorless
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colossus
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colostrum
colotomy
colour
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combat fatigue
combat team
combat zone
combatant
combative
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combination
combination lock
combination tone
combinative
combinatorial analysis
combinatorial topology
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combined operations
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combining form
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combustible
combustion
combustor
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come across
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come through
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come up
come upon
come-hither
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comeback
comedian
comedic
comedienne
comedietta
comedo
comedown
comedy
comedy of manners
comely
comer
comestible
comet
comeuppance
comfit
comfort
comfort station
comfortable
comforter
comfrey
comfy
comic
comic book
comic opera
comic relief
comic strip
comical
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comma
comma bacillus
comma fault
comma splice
command
command car
command guidance
command module
command paper
command performance
command post
commandant
commandeer
commander
commander in chief
commanding
commanding officer
commandment
commando
commonly
commonplace
commonplace book
commons
commonsense realism
commonweal
commonwealth
commorancy
commorant
commotion
commove
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communalism
communals
communicable
communicant
communicate
communication
communications satellite
communications zone
communicative
communion
communion cloth
communion of saints
communism
communist
communistic
communitarian
community
community chest
community college
community singing
communize
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commutate
commutation
commutation ticket
commutative
commutative law
commutator
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competition
competitive
competitor
compilation
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complain
complainant
complaint
complaisance
complaisant
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complement
complemental
complementary
complementary angle
complementary color
complementary distribution
complete
completion
complex
complex fraction
complex number
complex sentence
complex variable
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complexity
compliance
compliancy
compliant
complicacy
complicate
complicated
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complice
complicity
compliment
complimentary
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complot
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comprise
compromise
compte rendu
comptroller
compulsion
compulsive
compulsory
compunction
compurgation
computation
compute
computer
computer typesetting
computerize
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comradery
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con amore
con brio
con dolore
con fuoco
con game
con man
con moto
con spirito
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concavo-convex
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concentrate
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concentration
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conceptualism
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concernment
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concert overture
concert pitch
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concertgoer
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concertize
concertmaster
concerto
concerto grosso
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concessionaire
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confusion
confutation
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conglomerate
conglomeration
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congregation
congregational
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congressional
congressman
congresswoman
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congruency
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connotation
connotative
connote
connubial
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conqueror
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conquistador
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consanguinity
conscience
conscience clause
conscience money
conscience-stricken
conscientious
conscientious objector
conscionable
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consciousness
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conscription
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consecration
consecution
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conservation
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consternate
consternation
constipate
constipation
constituency
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constitutional psychology
constitutionalism
constitutionality
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constriction
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constrictor
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constringent
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constructionist
constructive
constructivism
construe
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consubstantiate
consubstantiation
consuetude
consuetudinary
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consul general
consular agent
consulate
consult
consultant
contour interval
contour line
contour map
contour sheet
contr.
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contraband
contrabandist
contrabass
contrabassoon
contraception
contraceptive
contract
contract bridge
contracted
contractile
contraction
contractive
contractor
contractual
contracture
contradance
contradict
contradiction
contradictory
contradistinction
contradistinguish
contrail
contraindicate
contralto
contraoctave
contrapose
contraposition
contrapositive
contraption
contrapuntal
contrapuntist
contrariety
contrarily
contrarious
contrariwise
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contrast
contrastive
contrasty
contravallation
contravene
contravention
contrayerva
contrecoup
contredanse
contreteps
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contributor
contributory
contributory negligence
contrite
contrition
contrivance
contrive
contrived
control
control account
control board
control center
control chart
control column
control experiment
control grid
control panel
control rod
control room
control stick
control surface
control tower
controller
controversial
controversy
controvert
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contumacy
contumelious
contumely
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contusion
conundrum
conurbation
conure
convalesce
convalescence
convalescent
convection
convector
convenance
convene
convenience
convenient
convet
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conventionalism
conventionality
conventionalize
conventioneer
conventioner
conventual
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convergence
convergent
conversable
conversant
conversation
conversation piece
conversational
consessionalist
consazione
converse
conversion
convert
converted
converter
convertible
convertiplane
convertite
convex
convexity
convexo-concave
convexo-convex
convey
conveyance
conveyancer
conveyancing
conveyor
conveyor belt
convict
conviction
convince
convincing
convivial
convocation
coprophilia
coprophilous
copse
copter
copula
copulate
copulation
copulative
copy
copy desk
copy editor
copy paper
copy-edit
copybook
copyboy
copycat
copyhold
copyholder
copyist
copyread
copyreader
copyright
copywriter
coq au vin
coquelicot
coquet
coquetry
coquette
coquilla nut
coquillage
coquille
coquina
coquito
cor anglais
cor.
coraciiform
coracle
coracoid
coral
coral reef
coral snake
coral tree
coralline
corallite
coralloid
coranto
corban
corbeil
cornflakes
cornflower
cornhusk
cornhusking
cornice
corniculate
cornstalk
cornstarch
cornu
cornucopia
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corny
corody
corolla
corollaceous
corollary
corona
corona discharge
coronach
coronagraph
coronal
coronal suture
coronary
coronary insufficiency
coronary thrombosis
coronation
coroner
coronet
coroneted
coronograph
corp.
corpora
corporal
corporal punishment
corporate
corporation
corporative
corporator
corporeal
corporeity
corposant
corps
corps de ballet
corps diplomatique
corpse
corpsman
corpulence
corpulent
corpus
corpus callosum
corpus delicti
corpus juris
corpus luteum
corpus striatum
corpuscle
corporal theory
corr.
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coral
corrasion
correct
correction
correctitude
corrective
correl.
correlate
correlation
correlation coefficient
correlative
correlative conjunction
correspond
correspondence
correspondence principle
correspondence school
correspondent
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corrie
corrigendum
corrigible
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corroboree
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corrosion
corrosive
corrosive sublimate
corrugate
corrugated iron
corrugated paper
corrugation
corrupt
cottage loaf
cottage piano
cottager
cottar
cotter
cotter pin
cottier
cotton
cotton batting
cotton belt
cotton cake
cotton candy
cotton flannel
cotton gin
cotton grass
cotton mill
cotton picker
cotton stainer
cotton wool
cottonade
cottonmouth
cottonseed
cottonseed meal
cottonseed oil
cottontail
cottonweed
cottonwood
cottony
cottony-cushion scale
cotyledon
coucal
couch
couch grass
couchant
couching
cougar
cough
cough drop
cough up
could
couldn't
couldst
coulee
coulisse
couloir
coulomb
coulometer
couler
country music
country rock
country seat
country store
country-and-western
country-bred
country-dance
country-wide
countryfied
countryman
countryside
countrywoman
county
county commissioner
county court
county palatine
county seat
coup
coup d'oeil
coup de main
coup de plume
coupe
couple
coupler
couplet
coupling
coupon
coupon bond
courage
courageous
courante
coureur de bois
courier
courlan
course
courser
courses
coursing
court
court card
court dress
court hand
court of appeals
court of chancery
court of first instance
court of honor
court of inquiry
court of record
covert coat
coverture
covet
covetous
covey
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cow parsnip
cow pony
cow shark
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cowbell
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cowbind
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cowboy
cowcatcher
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cowman
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cowpoke
cowpox
cowpuncher
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coxswain
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crab apple
crab grass
crab louse
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crabber
crabbing
crabby
crabstick
crabwise
-crack
crack of dawn
-crack of doom
-crack the whip
-crack up
-crack-up
-crackbrain
-crackbrained
-crackdown
-cracked
-cracker
-cracker bonbon
-cracker-barrel
-crackerjack
-cracking
-crackle
-crackleware
-crackling
-cracknel
-crackpot
-cracksman
-cradle
-cradlesong
-cradling
-craft
craft union
craftsman
craftwork
crafty
crag
craggy
cragsman
crake
cram
cram-full
crambo
crammer
cramoisy
cramp
cramped
crampon
cranage
cranberry
cranberry bush
crane
crane fly
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cranial index
cranial nerve
craniate
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craniology
craniometer
craniometry
craniotomy
cranium
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crankle
crankpin
crankshaft
cranky
crannog
cranny
crap
crap out
crape
crape myrtle
crappie
craps
crapshooter
crapulent
crapulous
craquelure
crash
crash boat
crash dive
crash helmet
crash pad
crash-land
crashing
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craunch
cravat
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craving
craw
crawfish
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crawler
crawly
crayfish
crayon
craze
crazed
crazy
crazy bone
crazy paving
crazy quilt
crazyweed
creak
creaky
cream
cream cheese
cream of tartar
cream puff
cream sauce
cream soda
cream-colored
creamcups
creamer
creamery
creamy
crease
create
cremator
crematorium
crematory
crenate
creation
crenel
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crenelation
crenellate
crenulate
crenulation
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cresol
creosote
creosote bush
crepe
crepe de Chine
crepe hair
crepe paper
crepe rubber
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crept
crepuscular
crepuscular light
crepuscle
crescendo
crescent
crescentic
cresol
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crestfallen
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cretic
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cretonne
crevasse
crevice
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crispy
crisscross
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cristate
cristobalite
crit.
criterion
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critical angle
critical mass
critical philosophy
critical point
critical pressure
critical state
critical temperature
critical volume
criticaster
criticism
criticize
critique
critter
croak
croaker
croaky
crocein
crochet
crochet hook
crocidolite
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crocked
crockery
crocket
crocodile
crocodile bird
crocodile tears
crocodilian
crocoite
croft
crofter
croissant
cromlech
cromorne
crone
cronk
crony
cronyism
crook
crookback
crooked
croon
crop
crop out
crop rotation
crop up
crop-dusting
crop-eared
cropland
cropper
croquet
croquette
crore
crosier
cross
cross bun
cross fire
cross hairs
cross of Lorraine
cross product
cross relation
cross section
cross wires
cross-bench
cross-check
cross-country
cross-crosslet
cross-examine
cross-eye
cross-eyed
cross-fade
cross-fertilization
cross-fertilize
cross-garnet
cross-grained
cross-index
cross-legged
cross-link
cross-pollinate
cross-pollination
cross-purpose
cross-question
cross-refer
cross-staff
cross-stitch
crouton
crow
crow blackbird
crow's-foot
crow's-nest
crowbar
crowberry
crowboot
crowd
crowded
crowfoot
crown
crown cap
crown colony
crown glass
crown graft
crown imperial
crown jewels
crown land
crown lens
crown of thorns
crown post
crown prince
crown princess
crown saw
crown vetch
crown wheel
crowned
crowning
crownpiece
crownwork
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crucible
crucible steel
crucifer
cruciferous
crucifix
crucifixion
cruciform
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cryogen
cryogenics
cryohydrate
cryolite
cryology
cryometer
cryoscope
cryoscopy
cryostat
cryosurgery
cryotherapy
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cryptogram
cryptogenic
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cryptology
cryptomeria
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cryptozoic
cryptozoite
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crystal counter
crystal detector
crystal gazing
crystal lattice
crystal pickup
crystal set
crystal system
crystal violet
crystal vision
crystalline
crystalline lens
crystallite
crystallization
crystallize
crystallo-
crystallography
crystalloid
cs.
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tenoid
tenophore
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cub reporter
cubage
cubature
cubby
cubbyhole
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cube root
cubeb
cubic

cubic measure
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cubicle
cubiculum
cubiform
cubism
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cubitiere
cuboid
cucking stool
cuckold
cuckoo
cuckoo clock
cuckooflower
cuckoopint
cuculiform
cuculate
cucumber
cucumber tree
cucurbit
cud
cudbear
cuddle
cuddy
cudgel
cudweed
cue
cue ball
cue bid
cuesta
cuff
cuff link
cuffs
cui bono
cuir-bouilli
cuirass
cuirassier
cuisine
cuisse
cul-de-sac
culch
culet
culex
culicid
culinarian
culinary
cull
cullender
cullet
cullis
cully
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culminant
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culmination
culottes
culpa
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culprit
cult
cutch
cultigen
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cultivator
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culture center
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culture medium
culture pattern
culture shock
culture trait
culture vulture
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cultus
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culverin
culvert
cum
cum dividend
cum grano salis
cum laude
cumber
cumbersome
cumbrance
cumbrous
cumin
cummerbund
cumquat
cumshaw
cumulate
cumulation
cumulative
cumulative evidence
cumulative voting
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day laborer
day letter
day lily
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day nursery
day room
day school
day shift
day-care center
day-to-day
daybook
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daydream
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direct primary
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doeskin
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dog biscuit
dog clutch
dog collar
dog days
dog fennel
dog in the manger
dog paddle
dog rose
dog sled
dog tag
dog's-tail
dog's-tongue
dog-day cicada
dog-ear
dog-eared
dog-eat-dog
dog-tired
dogbane
dogberry
dogcart
dogcatcher
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dogface
dogfight
dogfish
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family circle
family court
family doctor
family man
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flower power
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flying start
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folk medicine
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footrope
footsie
footslog
footsore
footstalk
forcible
forcing house
ford
fordo
fordone
fore
fore edge
fore plane
fore-
fore-and-aft
fore-and-aft sail
fore-and-after
fore-topgallant
fore-topgallant mast
fore-topmast
fore-topsail
forearm
forebear
forebode
foreboding
forebrain
forecast
forecastle
foreclose
foreclosure
foreconscious
forecourse
forecourt
foredate
foredeck
foredo
foredoom
forefather
forefend
forefinger
forefoot
forefront
foregather
foreglimpse
forego
foregoing
foregone
foregone conclusion
foreground
foregut
forehand
forehanded
forehead
forging
forgive
forgiven
forgiveness
forgiving
forgo
forgot
forgotten
forint
forjudge
fork
fork out
forked
forked lightning
forklift
forlorn
forlorn hope
form
form class
form drag
form genus
form letter
formal
formal cause
formal logic
formaldehyde
formalin
formalism
formality
formalize
formally
formant
format
formate
formation
formative
forme
former
formerly
formfitting
formic
formic acid
formicary
formication
formidable
formless
formula
formulaic
formularize
formulary
formulate
formulism
formwork
formyl
fornicate
fornication
fornix
forsake
forsaken
forsook
forsooth
forspent
forsterite
forswear
forsworn
forsythia
fort
fort.
fortalice
forte
forte-piano
forth
forthcoming
forthright
forthwith
fortieth
fortification
fortified wine
fortify
fortis
fortissimo
fortitude
fortnight
fortnightly
fortress
fortuitism
fortuitous
fortuity
fortunate
fortune
fortune cookie
fortune hunter
fortune-teller
fortuneteller
fortunetelling
forty
foundation
foundation garment
foundation stone
founder
founders' shares
foundling
foundry
foundry proof
fount
fountain
fountain pen
fountainhead
four
four flush
four-cycle
four-dimensional
four-eyed fish
four-flush
four-handed
four-in-hand
four-leaf clover
four-legged
four-letter word
four-o'clock
four-poster
four-way
four-wheeler
fourchette
fourflusher
fourfold
fourpence
fourpenny
fourscore
foursome
foursquare
fourteen
fourteenth
fourth
fourth dimension
fourth estate
fourth-class
fourthly
fovea
fovea centralis
foveola
fowl
fowling
fowling piece
fox
fox grape
fox hunting
fox squirrel
fox terrier
fox trot
fox-trot
foxed
foxglove
foxhole
foxhound
foxing
foxtail
foxy
foyer
fp
fr.
fracas
fraction
fractional
fractional currency
fractional distillation
fractionate
fractionize
fractious
fractocumulus
fractostratus
fracture
frae
fraenum
frag
fragile
fragment
fragmental
fragmentary
fragmentation
fragmentation bomb
fragrance
fragrant
frail
frailty
raise
frambesia
framboise
frame
frame aerial
frame house
free
free agent
free alongside ship
free association
free balloon
free city
free coinage
free companion
free company
free energy
free enterprise
free fall
free form
free gold
free hand
free house
free list
free liver
free love
free on board
free port
free radical
free rider
free silver
free socage
free speech
free thought
free throw
free trade
free verse
free will
free zone
free-floating
free-for-all
free-handed
free-hearted
free-living
free-spoken
free-swimming
freeboard
freeboot
freebooter
freeborn
freedman
freedom
freedom fighter
freedom rider
freedwoman
frequentation
frequentative
frequently
fresco
fresh
fresh breeze
fresh gale
freshen
fresher
freshet
freshman
freshwater
fresnel
fret
fret saw
fretful
fretted
fretwork
 friable
friar
friar's lantern
friarbird
friary
fribble
fricandeau
fricassee
fricatión
friacative
friction
friction clutch
friction match
friction tape
frictional
fridge
fried
friedcake
friend
friend at court
friendly
friendship
frier
frieze
frig
frigate
frigate bird
frigging
fright
frighten
frightened
frightful
frightfully
frigid
frigidarium
frigorific
frijol
frill
frilling
fringe
fringe benefit
fringe tree
fringed orchis
fringing reef
frippery
frisette
friseur
frisk
frisket
frisky
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frit fly
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fritillary
fritter
frivol
frivolity
frivolous
frizette
frizz
frizzle
frizzly
frizzy
fro
frock
frock coat
foe
frog
frog kick
frog spit
frogfish
froggy
froghopper
frogman
frogmouth
frolic
frolicsome
from
frowzy
froze
frozen
frozen pudding
frt.
fructiferous
fructification
fructificative
fructify
fructose
fructuous
frug
frugal
frugivorous
fruit
fruit cup
fruit fly
fruit knife
fruit salad
fruit sugar
fruit tree
fruitage
fruitarian
fruitcake
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fruitful
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fruitless
fruity
frumentaceous
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frump
frumpish
frumpy
frustrate
frustrated
frustration
frustule
frustum
frutescent
fry
fryer
frying pan
ft-lb
ft.
ftth.
fubsy
full-faced
full-fledged
full-grown
full-length
full-mouthed
full-rigged
full-scale
full-time
fullback
fuller
fuller's earth
fuller's teasel
fully
fulmar
fulminant
fulminate
fulminating powder
fulmination
fulminic acid
fulminous
fulsome
fulvous
fumare
fulmaric acid
fumarole
fumatorium
fumble
fume
fumed
fumigant
fumigate
fumigator
fumitory
fumy
fun
funambulist
function
function word
functional
functional calculus
functional disease
functional group
functional illiterate
functionalism
functionary
fund
fundament
fundamental
fundamental particle
fundamental unit
fundamentalism
funded debt
funds
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funeral director
funeral home
funerary
funereal
funest
fungal
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fungible
fungicide
fungiform
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fungoid
fungosity
fungous
fungus
funicle
funicular
funicular railway
funiculate
funiculus
funk
funk hole
funky
funnel
funnel cloud
funnelform
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funny bone
funny paper
funnyman
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fur farm
fur seal
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furfur
fur furaceous
fur furful
fur furfan
fur furious
fur furl
fur furlana
fur furlong
fur furlough
fur furmenty
fur furmace
fur furnish
fur furnishing
fur furnishings
fur furniture
fur furor
fur furore
fur furred
fur furrier
fur furriery
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fur furrow
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fur further
fur furtherance
fur furthermore
fur furthermorest
fur furthest
fur furtive
fur furuncle
fur furunculosis
fur fury
fur furze
fur fusain
fur fuscous
fur fuse
fur fused quartz
fur fusee
fur fusel oil
fur fuselage
fur fusibility
fur fusible
fur fusible metal
fur fusiform
fur fusil
fur fusilier
fur fusillade
fur fusion
fur fusion bomb
gable
gable end
gable roof
gable window
gablet
gaby
gad
gadabout
gadfly
gadget
gadgeteer
gadgetry
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gadolinium
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gaffe
gaffer
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gag rule
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gaillardia
gaily
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gainful
gainless
gainly
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gainsay
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gaiter
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galactic equator
galactic latitude
galactic longitude
galactic plane
galactic poles
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galimatias
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gall wasp
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gallery forest
galley
galley proof
galley slave
galley-west
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galligaskins
gallimaufry
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galling
galinule
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gallipot
gallium
gallivant
galliwaspgallnut
galloglass
gallon
gallonage
galloon
galoot
galop
gallopade
galloping
gallous
gallows
gallows bird
gallows humor
gallows tree
gallstone
galluses
galoot
galop
galore
galosh
galoshes
galumph
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galvanism
galvanize
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galvano-
galvanometer
galvanoscope
galvanotropism
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gama grass
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gambado
gambeson
gambier
gambit
gamble
gambling house
gamboge
gambol
gambrel
gambrel roof
game
game bird
game fish
game fowl
game point
game room
game theory
game warden
gamecock
gamekeeper
gamelan
gamely
gameness
gamesmanship
gamesome
gamester
gametangium
gamete
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gametocyte
gametogenesis
gametophore
gametophyte
gamic
gamin
gamine
gaming
gamma
gamma globulin
gamma iron
gamma radiation
gamma ray
gammadion
gammer
gammon
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gameto-
gamogenesis
gamone
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gamophyllous
gamosepalous
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gamut
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gandy dancer
ganef
gang
gang plow
gang saw
gangboard
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gangling
ganglion
gangplank
gangrel
gangrene
gangster
gangue
gangway
gangway ladder
ganister
ganja
gannet
ganof
ganoid
gantlet
gantline
gantry
gaol
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gap-toothed
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gapeworm
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garage
garb
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garbage truck
garbanzo
garble
garboard
garboard strake
garboil
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gas coal
gas constant
gas engine
gas fitter
gas fixture
gas furnace
gas gangrene
gas jet
gas log
gas main
gas mantle
gas mask
gas meter
gas oil
gas plant
gas range
gas station
gas thermometer
gas tube
gas turbine
gas well
gasbag
gasconade
gaselier
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gasholder
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gaskin
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gasman
gasolier
gasoline
gasometer
gasometry
gasp
gasper
gasser
gassing
gassy
gasteropod
gastight
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genocide
genome
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genteel
genteelism
gentian
gentian blue
gentian violet
gentianaceous
gentianella
gentile
gentlesse
gentilism
gentility
gentle
gentle breeze
gentlefolk
gentleman
gentleman's gentleman
gentleman-at-arms
gentleman-farmer
gentlemanly
gentlemen's agreement
gentleness
gentlewoman
gentry
genu
genuflect
genuflection
genuine
genus
geno-
geocentric
geocentric parallax
geochemistry
geochronology
geo.
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geodesic
geodesic dome
geodesy
geodetic
geodynamics
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geranial
geranium
geratology
gerbil
gerent
gerenuk
gerfalcon
geriatric
geriatrician
geriatrics
germ
germ cell
germ layer
germ plasm
germ theory
germ warfare
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germander
germane
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germanium
germanous
germen
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germinal vesicle
germinant
germinate
germinative
geront-
gerontocracy
gerontology
gerrymander
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gerundive
geellschaft
gesso
gest
gestalt
gestate
gestation
gesticulate
gesticulation
gesticulative
gesticulatory
gesture
gesundheit
giant powder
giant star
giant tortoise
giantess
giantism
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gibber
gibberellic acid
gibberish
gibbet
gibbon
gibbosity
gibbous
gibbsite
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giblet
giblets
gid
giddy
gie
gift
gift of gab
gift of tongues
gift tax
gifted
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giga-
gigahertz
gigantean
gigantic
gigantism
giggle
gigolo
gigot
gigue
gilbert
gild
gilded
gilder
gilding
gilgai
gill
gill fungus
gill net
gill slit
gillie
gills
gillyflower
gilt
gilt-edged
gilthead
gimbals
gimcrack
gimcrackery
gimel
gimlet
gimlet eye
gimmel
gimmick
gimp
gin
gin and tonic
gin rickey
gin rummy
gin sling
ginger
ginger ale
ginger beer
ginger group
ginger snap
ginger wine
gingerbread
gingerbread tree
gingerly
gingersnap
gingery
gingham
gingili
gingivitis
ginglymus
gink
ginkgo
ginseng
gip
gipon
giraffe
girandole
girasol
gird
girder
girdle
girdle-tailed lizard
girdler
girl
girl Friday
girlfriend
girlhood
girlie
girlish
giro
girosol
girt
girth
gisarme
gismo
gist
git
gittern
give
give away
give in
give off
give out
give over
give up
give-and-take
giveaway
given
given name
gizmo
gizzard
gl.
glabella
glabrate
glabrescent
glabrous
glace
glacial
glacial acetic acid
glacial epoch
glacial period
glacialist
glaciate
glacier
glaciology
glacis
glad
glad eye
glad hand
glad rags
gladen
glade
gladiate
glazier
glazing
gleam
glean
gleaning
gleanings
glebe
glede
glee
glee club
gleeful
gleeman
gleesome
gleet
glen
glengarry
glenoid
gley
glia
gliadin
glib
glide
glide bomb
glide-bomb
glider
gliding joint
glim
glimmer
glimmering
glimpse
glint
glioma
glissade
glissando
glisten
glister
glitter
glitter ice
glittery
gloam
gloaming
gloat
glob
global
globate
globe
globe-trotter
globefish
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glottalized
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glottis
glottochronology
glottotherapy
glove
glove compartment
glover
glow
glow discharge
glow lamp
glower
glowing
glowworm
gloxinia
gloze
glt.
glucinum
gluconeogenesis
glucoprotein
glucose
glucoside
glucosuria
glue
gluey
glum
glume
glut
glutamate
glutamic acid
glutamine
glutathione
gluteal
glutelin
gluten
gluten bread
glutenous
gluteus
gluteus maximus
glutinous
glutton
gluttonize
gluttonous
gluttony
glyceric
glyceric acid
glyceride
go along
go around
go at
go away
go back
go by
go down
go for
go forth
go in
go into
go off
go on
go out
go over
go slow
go through
go to
go together
go under
go up
go with
go-ahead
go-between
go-by
go-cart
go-devil
go-getter
go-go dancer
goa
goad
goal
goal line
goal post
goalie
goalkeeper
goaltender
goat
goat antelope
goat's-rue
goatee
goatfish
goatherd
goatish
goatsbeard
goatskin
goatsucker
gob
gold digger
gold dust
gold fever
gold foil
gold leaf
gold mine
gold mining
gold note
gold plate
gold point
gold reserve
gold rush
gold standard
gold-exchange standard
gold-filled
gold-of-pleasure
gold-plate
goldarn
goldarned
goldbeater's skin
goldbrick
goldcrest
golden
golden age
golden aster
golden calf
golden chain
golden eagle
golden goose
golden mean
golden oriole
golden pheasant
golden plover
golden retriever
golden rule
golden section
golden syrup
golden wattle
goldeneye
goldenrod
goldenseal
goldeye
goldfinch
goldfish
goldilocks
goldsmit

goldsmith beetle
goldstone
goldthread
golem
golf
golf bag
golf ball
golf club
golf course
golfer
goliard
golly
gombroon
gomphosis
gomuti
gon-
gonad
gonadotropin
gondola
gondola car
gondolier
gone
gone away
goneness
goner
gonfalon
gonfalonier
gonfanon
gong
gong buoy
gonidium
goniometer
gonion
gonna
gono-
gonococcus
gonocyte
gonophore
gonorhea
googoober
good
good Joe
good Samaritan
good afternoon
good behavior
good cheer
good day
good egg
good evening
good faith
good fellow
good humor
good looks
good morning
good nature
good night
good offices
good sort
good turn
good use
good-bye
good-fellowship
good-for-nothing
good-humored
good-looking
good-natured
good-oh
good-sized
good-tempered
goodbye
goodish
goodly
goodman
goodness
goods
goods and chattels
goodwife
goodwill
goody
goody-goody
gooe
goof
goofball
goofy
googly
googol
googolplex
gook
goon
gooney bird
goop
goosander
goose
goose barnacle
goose flesh
goose grass
goose grease
goose pimpls
goose step
goose-step
gooseberry
goosefish
gooseflesh
goosefoot
gooselog
gooseherd
gooseneck
goosy
gopak
gopher
gopher snake
gopher wood
gopherwood
goral
gorblimey
gorcock
gore
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gorgerin
gorget
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gorilla
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gorman
gormand
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gormless
gorse
gory
gosh
goshawk
gosling
gospel
gospel truth
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gosport
gossamer
gossip
gossipmonger
gossipry
gossipy
gossoon
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gouge
goulash
gourami
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gourmet
gout
goutweed
gouty
govern
governance
governess
government
government issue
governor
governor general
governorship
gowan
gowk
gown
gownsman
goy
gr.
gr. wt.
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grab rope
grabble
graben
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grace note
grace period
graceful
graceless
gracile
gracioso
gracious
grackle
grad
gradate
gradatim
gradation
grade
grade crossing
grade school
gradely
grader
gradient
gradin
gradual
gradualism
graduate
graduate nurse
graduate school
graduated
graduation
gradus
graffito
graft
graft hybrid
grafting
graham
graham cracker
graham flour
grain
grain alcohol
grain elevator
grained
grainfield
grains of paradise
grainy
grallatorial
gram
gram atom
gram calorie
gram equivalent
gram molecule
gram.
grama grass
gramarye
gramercy
gramicidin
gramineous
graminivorous
grammalogue
grammar
grammar school
grammician
grammatical
grammatical gender
grammatical meaning
gramme
gramps
grampus
granadilla
granary
grand
grand duchess
grand duchy
grand duke
grand jury
grand larceny
grand mal
grand opera
grand piano
grand slam
grand tour
grand vizier
grand-
grandam
grandaunt
grandchild
granddad
granddaddy
granddaughter
grande dame
grandee
grandeur
grandfather
grandfather clause
grandfather clock
grandfatherly
grandiloquence
grandiloquent
grandiose
grandioso
grandma
grandmamma
grandmother
grandmotherly
grandnephew
grandniece
grandpa
grandpapa
grandparent
grandsire
grandson
grandstand
granduncle
grange
graveyard
gavid
gravimeter
gravimetric
gravimetric analysis
graving dock
gravitate
gravitational constant
gravitational field
gravitative
graviton
gravity
gravity cell
gravity dam
gravity fault
gravity knife
gravity wind
gravure
gravy
gravy boat
gravy train
gray
gray eminence
gray fox
gray market
gray matter
gray wolf
gray-headed
grayback
graybeard
grayish
grayling
graze
grazier
grazing
grease
grease cup
grease gun
grease monkey
greaseball
greasepaint
greaser
greasewood
greasy
greasy spoon
great
great ape
great auk
great calorie
great circle
great council
great crested grebe
great gross
great pox
great primer
great seal
great tit
great white heron
great year
great-aunt
great-circle sailing
great-grand-aunt
great-granduncle
great-nephew
great-niece
great-uncle
greatcoat
greaten
greatest
greatest common divisor
greathearted
greatly
greave
greaves
grebe
gree
greed
greedy
greegree
green
green algae
green bean
green belt
green corn
green dragon
green fingers
green gland
green glass
green heron
green light
green manure
green mold
green monkey
green onion
green pepper
green plover
green soap
green tea
green thumb
green turtle
green vitriol
green woodpecker
green-eyed
greenback
greenbelt
greenbottle fly
greenbrier
greenery
greenfinch
greengage
greengrocer
greengrocery
greenhead
greenheart
greenhorn
greenhouse
greenhouse effect
greening
greenish
greenlet
greenling
greenness
greenockite
greenroom
greensand
greenshank
greensickness
greenstick fracture
greenstone
greensward
greenwood
greet
greeting
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gregarine
gregarious
greige
greisen
gremial
gremlin
grenade
grenadier
grenadine
gressorial
grew
grey
greyback
greybeard
greyhen
greyhound
greylag
greywacke
gribble
grid
grid bias
grid variation
griddle
gridlecake
gride
gridiron
grief
grief-stricken
grievance
grieve
grieved
grievous
griffe
griffin
grieffon
grig
grigri
grill
grillage
grielle
grilled
grilroom
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grindery
grinding wheel
grindstone
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groovy
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groping
gros de Londres
gros point
grosbeak
groschen
grosgrain
gross
gross national product
gross profit
gross ton
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ground bait
ground bass
ground beetle
ground cherry
ground cloth
ground cover
ground crew
ground floor
ground glass
ground hog
ground ice
ground ivy
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ground rent
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ground squirrel
ground state
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ground water
ground wave
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ground-controlled approach
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group insurance
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guarantee
guaranteed annual wage
guaranteed bond
guaranteed stock
guarantor
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guard cell
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guereza
guerilla
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guess-rope
guess-warp
guesstimate
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guest rope
guesthouse
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guidance
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guide dog
guide rope
guideboard
guidebook
guided missile
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guided wave
guideline
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guild socialism
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guildhall
gumma
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gummy
gumption
gumshoe
gumwood
gun
gun carriage
gun deck
gun dog
gun for
gun metal
gun moll
gun room
gun tackle
gun-shy
gunboat
guncotton
gunfight
gunfire
gunflint
gung ho
gunk
gunlock
gunmaker
gunman
gunnel
gunner
gunnery
gunning
gunny
gunnysack
gunpaper
gunplay
gunpoint
gunpowder
gunrunning
gunsel
gunshot
gunslinger
gunsmith
gunstock
gunter
gunwale
gunyah
guppy
gynaeceum
gynaeco-
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gynandromorph
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gynecologist
gynecology
gyniatics
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gynoeceum
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gyp joint
gypsophila
gypsum
gypsy moth
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gyrate
gyration
gyrotary
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gyro horizon
gyro-
gyrocompass
gyromagnetic
gyromagnetic ratio
gyron
gyronny
gyroplane
gyroscope
gyrose
gyrostabilizer
gyrostat
gyrostatic
gyrostatic compass
gyrostatics
gyrus
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ha'penny
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haberdasher
haberdashery
habergeon
habile
habiliment
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habit
habit-forming
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habitancy
habitant
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habitude
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hackamore
hackberry
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hacking jacket
hackle
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hackman
hackney
hackney coach
hackneyed
hacksaw
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hag-ridden
hagberry
hagbut
hagfish
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haggard
haggis
haggle
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hagio-
hagiocracy
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hagiography
hagiolatry
hagiology
hagioscope
hagride
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haik
haiku
hail
hail-fellow-well-met
hailstone
hailstorm
hair
hair follicle
hair hygrometer
hair seal
hair shirt
hair space
hair stroke
hair trigger
hair's-breadth
hair-raising
hairball
hairbreadth
hairbrush
haircloth
haircut
hairdo
hairdresser
hairless
hairline
hairpiece
hairpin
hairsplitter
hairsplitting
hairspring
hairstreak
hairstyle
hairtail
hairworm
hairy
haji
hajji
hake
hakim
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halation
halberd
halcyon
hale
haler
half
half blood
half boot
half brother
half cadence
half crown
half deck
half dollar
half eagle
half frame
half gainer
half hitch
half hose
half note
half sister
half step
half time
half volley
half-and-half
half-assed
half-baked
half-blood
half-blooded
half-bound
half-breed
half-caste
half-cock
half-cocked
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halogen
halogenate
haloid
halophyte
halothane
halt
halter
halting
halutz
halvah
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hamate
hamburger
hame
hamlet
hammer
hammer and sickle
hammer and tongs
hammer beam
hammer out
hammered
hammerhead
hammering
hammerless
hammerlock
hammertoe
hammock
hammy
hamper
hamster
hamstring
hamulus
hamza
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hance
hand
hand down
hand drill
hand glass
hand grenade
hand in
hand on
hand organ
hand over
hand truck
hand’s-breadth
hand-knit
hand-me-down
hand-off
hand-to-hand
hand-to-mouth
handbag
handball
handbarrow
handbill
handbook
handbreadth
handcar
handcart
handclap
handclasp
handcraft
handcrafted
handcuff
handed
handedness
handfast
handfasting
handful
handgrip
handgun
handhold
handicap
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handicapper
handicraft
handicraftsman
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handiness
handiwork
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handling
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handmaiden
handout
handpick
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hands
handsaw
handsel
handset
handshake
handshaker
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handspring
handstand
handwork
handwoven
handwriting
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handyman
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hang about
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hang on
hang out
hang together
hang up
hang-up
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hangbird
hangdog
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hanger-on
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hanging buttress
hanging post
hanging valley
hanging wall
hangman
hangnail
hangout
hangover
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hankering
hanky
hanky-panky
hansel
hansom
hanuman
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hapax legomenon
haphazard
haphazardly
hapless
haplite
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haplography
haploid
haplology
haplosis
haply
happen
happening
happenstance
happily
happiness
happy
happy hunting ground
happy-go-lucky
hapten
hara-ki
harangue
harass
harassed
harbinger
harbor
harbor seal
harborage
harbour
harbourage
hard
hard and fast
hard candy
hard cash
hard cider
hard coal
hard copy
hard core
hard court
hard goods
hard hat
hard labor
hard landing
hard lines
hard palate
hard paste
hard rock
hard rubber
hard sauce
hard sell
hard wheat
hard-and-fast
hard-bitten
hard-boiled
hard-core
hard-favored
hard-featured
hard-nosed
hard-pressed
hard-set
hard-shell
hard-shell clam
hard-shell crab
hard-spun
hardback
hardball
hardboard
harden
hardened
hardener
hardening
hardening of the arteries
hardhack
hardheaded
hardhearted
hardihood
hardily
hardiness
hardly
hardness
hardpan
hards
hardship
hardtack
hardtop
hardware
hardwood
hardworking
hardy
hare
hare and hounds
harebell
hdqrs.
he
he-man
head
head arrangement
head for
head gate
head lamp
head louse
head money
head off
head register
head resistance
head sea
head start
head tone
head voice
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headband
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headcheese
headcloth
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head foremost
headgear
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headquarters
headrace
headrail
headreach
headrest
headroom
heads
heads or tails
headsail
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headship
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headstone
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health
health insurance
health physics
healthful
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hearing aid
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heart block
heart cherry
heart failure
heart murmur
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heart-stricken
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heart-warming
heart-whole
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heartbeat
heartbreak
heartbreaker
heartbreaking
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heartburning
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heartland
heartless
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heartsease
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heartstrings
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heartwood
heartworm
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heat
heat barrier
heat capacity
heat content
heat engine
heat exchanger
heat exhaustion
heat lightning
heat prostration
heat pump
heat rash
heat shield
heat wave
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heath cock
heath grass
heath hen
heathberry
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heathendom
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heather
heating element
heating pad
heatstroke
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heaven
heaven-sent
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heavily
heaviness
heaving-line bend
heavy
heavy artillery
heavy bomber
heavy cream
heavy cruiser
heavy earth
heavy hydrogen
heavy spar
heavy water
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heavy-duty
heavy-footed
heavy-handed
heavy-hearted
heavy-laden
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heavyset
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hebetate
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hebetude
hecatomb
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hectocotylus
hectogram
hectograph
hectoliter
hectometer
hector
heddle
heder
hedge
hedge garlic
hedge hyssop
hedge sparrow
hedgehog
hedgehop
hedger
hedgerow
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hedonics
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heedful
heedless
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heel bone
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hematuria
hemelytron
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hemialgia
hemianopsia
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hemicordate
hemicrania
hemicycle
hemidemisemiquaver
hemielytron
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hemihydration
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hemiplegia
hemipode
hemipterous
hemisphere
hemispheroid
hemistich
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hemline
hemlock
hemmer
hemo-
hemocyte
hemoglobin
hemolysis
hemophilia
hemorrhage
hemorrhoid
hemorrhoidectomy
hemostat
hemotherapy
hemp
hemp agrimony
hemp nettle
hemp tree
hemstitch
hen
hen party
hen-and-chickens
henbane
henbit
hence
henceforth
henceforward
henchman
hendeca-
hendecagon
hendecahedron
hendecasyllable
hendiadys
henequen
henhouse
henna
hennery
henotheism
henpeck
henry
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heptachord
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herbarium
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hermit crab
hermit thrush
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hernia
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hero
hero sandwich
hero worship
hero-worship
heroic
heroic age
heroic couplet
heroic tenor
heroic verse
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herpes simplex
herpes zoster
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hetero-
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hexanoic acid
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hierophant
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higgle
higgledy-piggledy
higgler
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high and mighty
high blood pressure
high camp
high-sounding
high-speed
high-speed steel
high-spirited
high-stepper
high-strung
high-tension
high-test
high-toned
high-up
high-water mark
high-wrought
highball
highbinder
highborn
highboy
highbred
highbrow
highchair
higher arithmetic
higher criticism
higher education
higher mathematics
higher-up
highfalutin
highflier
highjack
highland
highlight
highline
highly
highness
highroad
hight
hightail
highway
highway robbery
highwayman
hijack
hijacker
hike
hilarious
hilarity
hill
hill myna
hill station
hillbilly
hillbilly music
hit-and-run
hit-or-miss
hitch
hitchhike
hitching post
hither
hithermost
hitherto
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hodman
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hog cholera
hog peanut
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hognose snake
hognut
hogshead
hottie
hogwash
hogweed
hoi polloi
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hoiden
hoist
hoity-toity
hokey-pokey
hokku
hokum
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hold back
hold down
hold forth
hold in
hold off
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hold over
hold together
hold with
holdall
holdback
holden
holder
holdfast
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holding company
holding pattern
holdover
holdup
hole
hole in one
hole up
holystone
holytide
homage
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hombre
homburg
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home economics
home guard
home plate
home range
home rule
home run
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homecoming
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homeland
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homesick
homespun
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homestretch
homeward
homework
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homicide
homiletic
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homing
homing pigeon
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hominoid
hominy
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homocercal
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homogeneity
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homogony
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homograph
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homologate
homologize
homologous
homologous chromosomes
homolographic
homologue
homology
homolosine projection
homomorphism
honym
homophile
homophone
homophonic
homophonous
homophony
homopolar
homopterous
homorganic
homosexual
homosexuality
homosporous
hooded
hooded crow
hooded seal
hoodlum
hoodman-blind
hoodoo
hoodwink
hooey
hoof
hoof-and-mouth disease
hoofbeat
hoofbound
hoofed
hoofer
hook
hook and eye
hook-nosed
hookah
hooked
hooked rug
hooker
hooknose
hookup
hookworm
hooky
hooligan
hoop
hoop pine
hoop skirt
hoop snake
hooper
hoopla
hoopoe
hooray
hoosegow
hoot
hoot owl
hootchy-kootchy
hootenanny
hooves
hop
hop clover
hop-o'-my-thumb
hope
hope chest
hopeful
hopefully
hopeless
horloge
horologist
horologium
horology
horoscope
horoscopy
horotelic
horrendous
horrible
horribly
horrid
horrific
horrified
horrify
horripilate
horripilation
horror
horror-struck
hors concours
hors d'oeuvre
hors de combat
horse
horse around
horse bean
horse brass
horse chestnut
horse gentian
horse latitudes
horse mackerel
horse marine
horse nettle
horse opera
horse pistol
horse sense
horse trader
horse-faced
horseback
horsecar
horseflesh
horsefly
horsehair
horsehide
horselaugh
horseleech
horsemanship
horseman
horsemanship
horsemint
horseplay
horsepower
horsepower-hour
horseradish
horseshit
horseshoe
horseshoe arch
horseshoe crab
horseshoe magnet
horseshoes
horsetail
horseweed
horsewhip
horsewoman
horsey
horst
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hort.
hortative
hortatory
horticulture
hortus siccus
hosanna
hose
hosier
hosiery
hosp.
hospice
hospital
hospital bed
hospital corner
hospital ship
hospitality
hospitalization
hospitalization insurance
hospitalize
hospitium
hospodar
host
hostage
hostel
hostel school
hostelry
hostess
hostile
hostility
hostler
hot
hourglass
houri
hourly
house
house agent
house arrest
house detective
house finch
house flag
house martin
house mouse
house of God
house of assignation
house of cards
house of correction
house of detention
house of ill repute
house of prayer
house of prostitution
house of worship
house organ
house party
house physician
house sparrow
house trailer
house-raising
houseboat
housebound
houseboy
housebreak
housebreaker
housebreaking
housebroken
housecarl
houseclean
housecoat
housefather
housefly
household
household gods
household troops
householder
housekeeper
housekeeping
housel
houseleek
houseless
houselights
hue
hue and cry
hued
huff
huffish
huffy
hug
hug-me-tight
huge
hugely
hugger-mugger
huh
hula
hula skirt
hula-hula
hulk
hulking
hunky
hull
hullabaloo
hullo
hum
human
human being
human interest
human nature
human rights
humane
humane society
humanism
humanist
humanitarian
humanitarianism
humanity
humanize
humankind
humanly
humanoid
humble
humble pie
humblebee
humbug
humbuggery
humdinger
humdrum
humectant
humeral
humeral veil
hunt up
hunter
hunter's moon
hunting
hunting ground
hunting horn
hunting knife
huntress
huntsman
huntsman's-cup
huppah
hurdle
hurds
hurdy-gurdy
hurl
hurley
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ion rocket
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labor union
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lady bountiful
lady fern
lady's maid
lady's man
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lady-killer
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land office
land rail
land reform
land tax
land-grabber
land-office business
land-poor
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landgrave
landgraviate
landgravine
landholder
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landing craft
landing field
landing gear
landing net
landing stage
landing strip
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landlubber
landman
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landside
landsknecht
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landsman
landwaiter
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laughing jackass
laughingstock
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law agent
law court
law merchant
law of averages
law of nations
law of parsimony
law of thermodynamics
law-abiding
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lawgiver
lawless
lawmaker
lawman
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lawn party
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lawn tennis
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lawsuit
lawyer
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lay analyst
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lay away
lay brother
lay down
lay figure
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lay into
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lay on
lay out
lay over
lay reader
lay sister
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lay up
lay-by
layer
layer cake
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laying on of hands
layman
layoff
layout
laywoman
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lazaretto
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lazy Susan
lazy daisy stitch
lazy tongs
lazybones
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lead glass
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lead monoxide
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lead pencil
lead poisoning
lead screw
lead tetraethyl
lead time
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lead-pipe cinch
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leading lady
leading light
leading man
leading question
leading strings
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leaf fat
leaf insect
leaf miner
leaf mold
leaf monkey
leaf spot
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leg-of-mutton sail
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legal cap
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legal holiday
legal medicine
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legal tender
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leopard moth
leopard's-bane
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lepidote
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leptorrhine
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leucoderma
leucoma
leucomaine
leucopenia
leucoplast
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levirate
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liberty cap
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libido
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librarianship
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library binding
library edition
library paste
library science
librate
libration
libratory
librettist
libretto
libriform
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lightness
lightning
lightning arrester
lightning bug
lightning conductor
lightning rod
lightproof
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lights out
lightship
lightsome
lightweight
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ligneous
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ligniform
lignify
lignin
lignite
lignocellulose
lignum vitae
ligroin
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likelihood
likely
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likewise
liking
likker
lilac
liliaceous
lilt
lily
lily iron
lily of the valley
lily pad
lily-livered
lily-trotter
lily-white
lima bean
limacine
limb
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limber
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limber up
limbic
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lime
lime burner
limeade
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limit point
limit switch
limitary
limitation
limitative
limited
limited company
limited edition
limited liability
limited monarchy
limited payment insurance
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literal-minded
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long vacation
long wave
long-distance
long-drawn
long-drawn-out
long-eared owl
long-faced
long-headed
long-horned beetle
long-legged
long-limbed
long-lived
long-playing
long-range
long-sighted
long-standing
long-sufferance
long-suffering
long-term
long-term bond
long-winded
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loudmouth
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loudspeaker
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lounge lizard
lounge suit
lounging
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love match
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love potion
love seat
love set
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love-lies-bleeding
lovebird
lovegrass
loveless
lovelock
lunar caustic
lunar eclipse
lunar module
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lunarian
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lunatic asylum
lunatic fringe
lunation
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luncheon meat
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lunchroom
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lungfish
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lungwort
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lunitidal
lunitidal interval
lunkhead
lunula
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lupine
lupulin
lupus
lupus erythematosus
lupus vulgaris
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lurcher
lurdan
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lurid
lurk
luscious
lush
lushy
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lusterware
lustful
lusthood
lustral
lustrate
lustre
lustreware
lustering
lustrous
lustrum
lusty
lusus naturae
lutanist
lute
luteal
luteinizing hormone
lutenist
luteolin
luteous
lutestring
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luxurious
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lycanthropy
lyceum
lych gate
lychnis
lycopodium
lyddite
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lying
lying-in
lyme grass
lymph
lymph cell
lymph gland
lymphadenitis
lymphangial
lymphangitis
lymphatic
lympho-
lymphoblast
lymphocyte
lymphocytosis
lymphoid
lymphoma
lymphosarcoma
lyncean
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lynch law
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lyophilize
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magnetic axis
magnetic bearing
magnetic circuit
magnetic compass
magnetic course
magnetic declination
magnetic dip
magnetic equator
magnetic field
magnetic flux
magnetic flux density
magnetic force
magnetic induction
magnetic meridian
magnetic mine
magnetic moment
magnetic needle
magnetic north
magnetic pickup
magnetic pole
magnetic potential
magnetic quantum number
magnetic storm
magnetic tape
magnetic variation
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magnetism
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magnetoelectricity
magnetograph
magnetohydrodynamics
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magnetomotive force
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mahogany
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maid of honor
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maiden voyage
maidenhair
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maidservant
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mail order
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mailbag
mailbox
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maillot
mailman
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main body
main course
main deck
main line
main yard
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mainsheet
mainspring
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maisonette
maitre d'hôtel
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majestic
majesty
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major axis
major general
major league
major mode
major orders
major planet
major premise
major scale
major triad
major-domo
majordomo
majorette
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make believe
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make off
make out
make over
make-believe
make-peace
makefast
maker
makeshift
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makeweight
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mal du pays
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mala fide
mala fides
malachite
malaco-
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malacostracan
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maladjustment
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maladroit
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malediction
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malformation
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malnutrition
malocclusion
malodorous
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malonylurea
malpighiaceous
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malpractice
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malt liquor
maltase
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maltreat
malvaceous
malvasia
malversation
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mammal
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mammalogy
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mammilla
mammillary
mammillate
mammon
mammoth
mammy
man
man Friday
man about town
man in the street
man of God
man of straw
man-at-arms
man-eater
man-eating
man-hour
man-made
man-of-war
man-sized
man-to-man
mana
manacle
manage
manageable
managed currency
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managerial
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managing editor
manakin
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manciple
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mansard
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manservant
mansion
manslaughter
manslayer
manstopper
mansuetude
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mantellone
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marine insurance
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mariner's compass
marionette
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market garden
market gardening
market order
market price
market research
market town
market value
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mean free path
mean solar day
mean solar time
mean sun
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medical jurisprudence
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medium shot
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memory bank
memory span
memory trace
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men's room
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merry dancers
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merry-go-round
merrymaker
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mess hall
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microclimatology
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micrococcus
microcopy
microcosm
microcosmic salt
microcrystalline
microcurie
microcyte
microdont
microdot
microeconomics
microelectronics
microelement
microfarad
microfiche
microfilm
microgamete
microgram
micrography
microgroove
microhenry
microlith
micrometeorite
micrometeorology
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micrometer caliper
micrometer screw
micrometry
micromho
micromillimeter
microminiaturization
micron
micronucleus
micronutrient
microorganism
micropaleontology
microparasite
micropathology
microphone
microphotograph
microphysics
microphyte
microprint
micropryde
microreader
microscope
microscopic
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microsecond
microseism
microsome
microsporangium
microspore
microsporophyll
microstructure
microsurgery
microtome
microwave
microwave spectroscopy
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midcourse
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middle age
middle class
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middle finger
middle game
middle ground
middle passage
middle school
middle term
middle watch
middle-aged
middle-class
middle-of-the-road
middle-of-the-roader
middlebreaker
middlebrow
middlebuster
middleman
middlemost
middleweight
middling
milk of magnesia
milk punch
milk run
milk shake
milk sickness
milk snake
milk sugar
milk thistle
milk tooth
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milk vetch
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milk-livered
milk-white
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mind-expanding
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minefield
minelayer
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charcoal
kingdom
oil
pitch
spring
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mineralogist
mineralogy
mineraloid
minestrone
minesweeper
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 miniature camera
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 minister plenipotentiary
 minister resident
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misconduct
misconstruction
misconstrue
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misinterpret
misjoiner
misjudge
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mismatch
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misname
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misogamy
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misogyny
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misplace
misplaced modifier
misplay
mispleading
misprint
misperison
misprize
mispronounce
misquotation
misquote
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misrecon
misreport
misrepresent
misrule
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mistrail
mistrust
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misunderstanding
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misvalue
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mitterwort
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mithridatism
miticide
mitigate
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mitochondrion
mitosis
mitrailleuse
mitral insufficiency
mitral stenosis
mitral valve
mitre
mitrewort
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mitten
mittimus
mitzvah
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mix-up
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mixed bag
mixed blessing
mixed bud
mixed farming
mixed grill
mixed marriage
mixed number
mixed-up
mixer
mixologist
mixolydian mode
mixture
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mobcap
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mobile home
mobile unit
mobility
mobilize
mobocracy
mobster
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moccasin flower
mocha
mock
mock moon
mock orange
mock sun
mock turtle soup
mock-heroic
mock-up
mockery
mockingbird
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modal auxiliary
modality
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modeling
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moderate breeze
moderate gale
moderation
moderato
moderator
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modern dance
modern jazz
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modernity
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modest
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modicum
modification
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mollycoddle
molt
molten
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molybdenite
molybdenous
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moment of truth
momentarily
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momently
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monaxial
monazite
monde
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money order
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monger
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mongrelize
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monitory
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monkery
monkey
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monkey business
monkey flower
monkey jacket
monkey nut
monkey puzzle
monkey rail
monkey suit
monkey wrench
monkeypot
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monkhood
monkish
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monoacid
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monochasium
monochloride
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monochromatism
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morgue
moribund
morion
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morning
morning coat
morning dress
morning glory
morning loan
morning sickness
morning star
morning watch
morning-glory
mornings
morocco
moron
morose
morph
morpheme
morphia
morphine
morphism
morphinism
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morphogenesis
morphology
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morphophonemics
morphosis
morris
morris dance
morrow
morse
morsel
mort
mortal
mortal sin
mortality
mortality table
mortar
mortarboard
mortgage
motherhood
mothering
motherland
motherless
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optical maser
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pillory
pillow
pillow block
pillow lace
pillow sham
pillowcase
pilocarpine
pilose
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pilot balloon
pilot biscuit
pilot boat
pilot burner
pilot film
pilot fish
pilot flag
pilot lamp
pilot light
pilotage
pilothouse
piloting
pilotless aircraft
pilpul
pily
pinion
pinite
pink
pink lady
pink slip
pinkeye
pinkie
pinking shears
pinkish
pinko
pinky
pinna
pinnacle
pinnate
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pinnatipartite
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pinnule
pinochle
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pinpoint
pinpoint bombing
pinprick
pins and needles
pinstripe
pint
pint-size
pinta
pintail
pintle
pinto
pinto bean
pinup
pinwheel
pinwork
pinworm
pinxit
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pioneer
pious
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pip-squeak
pipage
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pipe clay
pipe cleaner
pipe dream
pipe of peace
pipe organ
pipe up
pipeline
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piperaceous
piperidine
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piperonal
pipestone
pipette
piping
pipistrelle
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pipkin
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piquet
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piragua
piranha
pirate
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pis aller
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piss
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planned parenthood
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plano-concave
plano-convex
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planography
planometer
planospore
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plant kingdom
plant louse
plant pathology
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plantain-eater
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planula
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plastic art
plastic bomb
play down
play on
play on words
play out
play up
play with
play-off
playa
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playbill
playbook
playboy
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player piano
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playgoer
playground
playhouse
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playing field
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playreader
playroom
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playtime
playwright
playwriting
plaza
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pocket battleship
pocket billiards
pocket borough
pocket gopher
pocket money
pocket mouse
pocket veto
pocketbook
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pocketknife
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pocky
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pocosin
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podiatry
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poet laureate
poet.
poetaster
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poison ivy
poison oak
poison sumac
poison-pen letter
poisoning
poisonous
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pokeberry
pokelogan
poker
poker dice
pokeweed
pokey
poky
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polacre
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polar axis
polar bear
polar coordinates
polar distance
polar equation
polar front
polar lights
polarimeter
polariscope
polarity
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polarize
polarizing microscope
polder
pole
pole horse
pole vault
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pollster
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pollywog
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polo shirt
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polygyny
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poppyhead
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popular etymology
popular front
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popular song
popular sovereignty
popularity
popularize
popularly
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population explosion
populous
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porcelain clay
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porcine
porcupine
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porker
porkpie
porky
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pot liquor
pot marigold
pot roast
pot shot
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predecessor
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prediction
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preferred stock
prefiguration
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pregnant
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prejudice
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premature
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premaxilla
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premonitory
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preoccupy
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preparatory school
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prepositor
prepossess
prepossessing
prepossession
preposterous
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prepotent
preprandial
prepuse
prerecord
prerequisite
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presbyterial
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pressman
pressmark
pressor
pressroom
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pressure altimeter
pressure altitude
pressure cabin
pressure cooker
pressure gauge
pressure group
pressure head
pressure point
pressure suit
pressure-cook
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prestidigitation
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presumptuous
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prickly pear
prickly poppy
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priest
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prima donna
prima facie
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primary accent
primary cell
primary color
primary election
primary school
primary stress
primary syphilis
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prime cost
prime meridian
prime minister
prime mover
prime number
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prince consort
prince regent
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prison psychosis
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private bill
private company
private enterprise
private eye
private first class
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private practice
private school
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privilege
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privileged communication
privily
privity
privy
privy chamber
privy council
privy purse
privy seal
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prosecuting attorney
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psychopathist
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public assistance
public charge
public debt
public defender
public domain
public enemy
public house
public law
public opinion
public prosecutor
public relations
public school
public servant
public service
public utility
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public-address system
public-opinion poll
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pukka
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push-up
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quantity surveyor
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quantum mechanics
quantum number
quantum statistics
quantum theory
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quarter grain
quarter horse
quarter nelson
quarter note
quarter round
quarter section
quarter sessions
quarter tone
quarter-hour
quarter-phase
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quarterdeck
quartered
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quarterly
quartermaster
quartern
quarters
quartersaw
quarterstaff
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quartic
quartile
quarto
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quartz glass
quartz lamp
quartziferous
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quasi-judicial
quasi-stellar radio source
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queen
queen bee
queen dowager
queen mother
queen olive
queen post
queen regent
queen regnant
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queen's evidence
queen's shilling
queenhood
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questionnaire
questor
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quibbling
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quick bread
quick fire
quick grass
quick march
quick time
quick trick
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quicklime
quickly
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quietude
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quisling
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quitclaim
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quitrent
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quittance
quittor
quiver
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quixotism
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quizzical
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quod vide
quodlibet
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quondam
quorum
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quotation
quotation mark
quote
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rabbet plane
rabbis
rabbin
rabbinate
rabbinical
rabbinism
rabbit
rabbit ears
rabbit fever
rabbit punch
rabbitfish
rabbitry
rabble
rabble-rouser
rabble-rousing
rabblement
rabid
rabies
raccoon
raccoon dog
race
race horse
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round clam
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round lot
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running rigging
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sand martin
sand painting
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savings and loan association
savings bank
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scarlet runner
scarlet tanager
scarlet woman
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scorekeeper
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screen memory
screen test
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screw eye
screw pine
screw propeller
screw up
screwball
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- scutch
- scutch grass
- scutcheon
- scute
- scutellation
- scutiform
- scutter
- scuttle
- scuttlebutt
- scutum
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- scyphozoan
- scyphus
- scythe
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- sea holly
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self-congratulation
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self-content
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self-control
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self-deception
self-defense
self-delusion
self-denial
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self-determination
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self-discipline
self-drive
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self-effacement
self-effacing
self-employed
self-esteem
self-evident
self-examination
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self-expression
self-fertilization
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self-fulfillment
self-governed
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self-gratification
self-help
self-hypnosis
self-identity
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self-immolation
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self-improvement
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self-insurance
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self-knowledge
self-liquidating
self-loading
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self-mastery
self-mortification
self-moving
self-operating
self-opinionated
self-pity
self-pollination
self-possessed
self-possession
self-preservation
self-pronouncing
self-propelled
self-propulsion
self-realization
self-regard
self-regulated
self-regulating
self-reliance
self-reliant
self-renunciation
self-reproach
self-respect
self-restraint
self-revealing
self-righteous
self-rising
self-sacrifice
self-satisfaction
self-satisfied
self-sealing
self-seeker
self-seeking
self-service
self-sown
self-starter
self-styled
self-sufficient
self-suggestion
self-support
self-supporting
self-sustaining
self-taught
self-will
self-winding
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selfhood
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selfless
selfness
selfsame
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sell off
sell out
seller
sellers' market
selling race
selling-plater
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selvage
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semicircular canal
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semination
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semivowel
semiweekly
semiyearly
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septic tank
septicemia
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serendipity
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sergeant at arms
sergeant first class
sergeant major
serial
serial number
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series-wound
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serous fluid
serous membrane
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serum albumin
serum globulin
serum hepatitis
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servant
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server
service
service book
service ceiling
service medal
service station
service stripe
serviceable
serviceberry
serviceman
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serviette
servile
servility
serving
servitor
servitude
servo
servo system
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servomechanism
servomotor
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sesquiplane
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set point
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setttee
setter
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setting-up exercises
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settle in
settle with
settlement
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settlings
setula
setup
seven
seven deadly sins
seven seas
seven-up
seven-year itch
sevenfold
seventeen
seventeen-year locust
seventeenth
seventh
seventh chord
seventh heaven
seventieth
seventy
sever
severable
several
severally
severalty
severance
severance pay
severe
severity
sew
sew up
sewage
sewan
sewellel
sewer
sewerage
sewing
sewing machine
sewn
sex
sex act
sex appeal
sex chromosome
sex hormone
sex-
sex-limited
sexagenarian
sexagenary
sexagesimal
sexcentenary
sexdecillion
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sexivalent
sexless
sexology
sexpartite
sexpot
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sextant
sextet
sextillion
sextodecimo
sexton
sextuple
sextuple time
sextuplet
sextuplicate
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sexual intercourse
sexual reproduction
sexual selection
sexuality
sexy
sf
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sfumato
sgd.
sgraffito
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shabby-genteel
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shackle
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shadberry
shadbush
shadchan
shaddock
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shade tree
shading
shadoof
shadow
shadow play
shadowgraph
shadowy
shaduf
shady
shaft
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shagbark
shaggy
shaggy-dog story
shagreen
shah
shake
shake down
shake off
shake up
shake-up
shakedown
shaker
shaking
shaking palsy
shako
shaky
shale
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shall
shalloon
shallop
shallot
shallow
shalom aleichem
shalt
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shamble
shambles
shame
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shameful
shameless
shammer
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shampoo
shamrock
shamus
shan’t
shandrydan
shandy
shanghai
shank
shanny
shantung
shanty
shape
shape up
shaped
shapeless
shapely
shard
share
sharecrop
sharecropper
sheaves
shebang
shebeen
shed
shed roof
sheen
sheeny
sheep
sheep ked
sheep sorrel
sheep tick
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sheep's fescue
sheep-dip
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sheepfold
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sheepish
sheepshank
sheepshead
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sheepskin
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sheer strake
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sheers
sheet
sheet anchor
sheet bend
sheet glass
sheet lightning
sheet metal
sheet music
sheet-fed
sheeting
sheik
sheikdom
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shekel
shelduck
shelf
shelf ice
shelf life
shell
shell bean
shell game
shell jacket
shell out
shell shock
shellac
shellacking
shellback
shellbark
shelled
shellfire
shellfish
shellproof
shelter
shelter deck
shelter tent
shelty
shelve
shelves
shelving
shend
shepherd
shepherd dog
shepherd's pie
shepherd's-purse
sherbet
sherd
sherif
sheriff
sherry
sheugh
shew
shibboleth
shied
shield
shield bug
shield fern
shier
shiest
shift
shift key
shiftless
shifty
shigella
shikari
shiksa
shill
shillelagh
shilling
shilling mark
shilly-shally
shimmer
shimmery
shimmy
shin
shinbone
shindig
shine
shiner
shingle
shingles
shingly
shinleaf
shinny
shiny
ship
ship biscuit
ship chandler
ship money
ship of the line
ship of war
ship's boat
ship's boy
ship's husband
ship's papers
ship-rigged
shipboard
shipentine
shipload
shipman
shipmaster
shipmate
shipment
shipowner
shippen
shipper
shipping
shipping ton
shipshape
shipway
shipworm
shipwreck
shipwright
shipyard
shire
shire horse
shirk
shirker
shoot
shoot down
shoot out
shoot up
shooter
shooting box
shooting brake
shooting gallery
shooting iron
shooting script
shooting star
shooting stick
shooting war
shop
shop assistant
shop steward
shophar
shopkeeper
shoplifter
shopper
shopping
shopping center
shopwindow
shopworn
shoran
shore
shore bird
shore leave
shore patrol
shoreless
shoreline
shoreward
shoring
shorn
short
short account
short circuit
short covering
short division
short hundredweight
short interest
short list
short shrift
short story
short subject
short ton
short-change
short-circuit
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short-tempered
short-term
short-winded
shortage
shortbread
shortcake
shortcoming
shortcut
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shortfall
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shorthanded
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shortly
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shortsighted
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shortwave
shot
shot glass
shot hole
shot put
shot tower
shot-putter
shote
shotgun
shotgun wedding
shotten
should
shoulder
shoulder bag
shoulder blade
shoulder pad
shoulder patch
shoulder strap
shoulder weapon
shouldn't
shouldst
shout
shout down
shove
shove off
shovel
shrine
shrink
shrinkage
shrive
shroff
shroud
shroud knot
shroud-laid
shrove
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shrubby
shrug
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shrunk
shrunken
shtg.
shuck
shudder
shuddering
shuffle
shuffleboard
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shun
shunt
shunt-wound
shush
shut
shut up
shut-in
shutdown
shutout
shutter
shuttering
shuttle
shuttlecock
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sick headache
sick leave
sick list
sicken
sickener
sickening
sickle
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sicklebill
sickly
sickness
sickroom
siddur
side
side arms
side chain
side dish
side drum
side effect
side horse
side meat
side step
side street
side table
side whiskers
side-dress
sideband
sideboard
sideburns
sidecar
sidekick
sidelight
sideline
sideling
sidelong
sideman
sidereal
sidereal day
sidereal hour
sidereal month
sidereal time
sidereal year
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siderolite
siderosis
siderostat
sidesaddle
sideshow
sideslip
sidesman
sidestep
sidestroke
sideswipe
sidetrack
sidewalk
sideward
sideway
sideways
sidewheel
sidewinder
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sidle
siege
siemens
sienna
sierra
siesta
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sieve tube
sift
siftings
sig.
sigh
sight
sight bill
sight draft
sight-read
sight-seeing
sighted
sightless
sightly
sigil
siglos
sigma
sigmatism
sigmoid
sigmoid flexure
sign
sign away
sign in
sign language
sign manual
sign of the cross
sign on
sign up
signal
signal box
signal corps
signal-to-noise ratio
signalize
signally
signalman
signalment
signatory
signature
signature tune
signboard
signet
signet ring
significance
significancy
significant
signification
significative
significs
signify
signor
signora
signore
signorina
signorino
signory
signpost
sika
sike
silage
silence
silencer
silent
silent discharge
silent majority
silent partner
silesia
silhouette
silica
silica gel
silica glass
silicate
siliceous
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silicic acid
silicify
silicious
silicium
silicle
silicon
silicon carbide
silicone
silicosis
siliculose
siliqua
silique
silk
silk hat
silk oak
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silk-stocking
silkaline
silken
silkweed
silkworm
silty
sill
sillabub
sillimanite
sily
silly season
silo
siloxane
silt
siltstone
silurid
silva
silvan
silver
silver age
silver bell
silver birch
silver bromide
silver certificate
silver chloride
silver fizz
silver foil
silver fox
silver frost
silver iodide
silver leaf
silver lining
silver maple
silver nitrate
silver plate
silver screen
silver standard
silver thaw
silver-eye
silver-plate
silver-tongued
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silvern
silverpoint
silverside
silversmith
silverware
silverweed
silvery
silviculture
sima
simar
simarouba
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simba
simian
similar
similarity
simile
similitude
simitar
simmer
simmel cake
simon-pure
simoniac
simonize
simony
simoom
simp
simpatico
simper
simple
simple chancre
simple harmonic motion
simple interest
simple machine
simple microscope
simple sentence
simple time
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simple-minded
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simply
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simulator
simulcast
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sin
sinapism
since
sincere
sincerity
sinciput
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sine curve
sine die
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sine qua non
sine wave
sinecure
sinew
sinewy
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sinfonietta
sinful
sing
sing out
sing.
singe
singer
singing bird
single
single bond
single combat
single entry
single file
single quotes
single rhyme
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single-cross
single-foot
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single-handedly
single-hearted
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single-minded
single-phase
singleness
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singlestick
singlet
singleton
singletree
singly
singsong
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singularity
singularize
singultus
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sinistrality
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sinistrodextral
sinistrorse
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sinkage
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sinkhole
sinking
sinking fund
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sinner
sinter
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sinuation
sinuosity
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sinusoidal
sinusoidal projection
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sir-reverence
sirdar
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sirloin
sirocco
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sirree
sirup
sis
sisal
siskin
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sissy
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sister-in-law
sisterhood
sisterly
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sit back
sit down
sit on
sit up
sit-down
sit-down strike
sit-in
sitar
site
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sitter
skean
skean dhu
skedaddle
skeet
skeg
skein
skeleton
skeleton key
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skeptical
skepticism
skerrick
skerry
sketch
sketchbook
sketchy
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skewback
skewbald
skewer
skewness
ski
ski jump
ski lift
ski pants
ski tow
ski troops
skiagraph
skiascope
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skid fin
skid row
skidproof
skidway
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skiing
skijoring
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skillet
skillful
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skimmia
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skin flick
skin friction
skin graft
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skin-dive
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skintight
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skip distance
skip tracer
skip-bomb
skipjack
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skipper
skippet
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skite
skitter
skittish
skittle
skive
skiver
skivvy
skulduggery
skulk
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skull and crossbones
skullcap
skunk
skunk cabbage
sky
sky blue
sky pilot
sky wave
sky-high
skycap
skydive
skyjack
skylark
skylight
skyline
skyscraper
skyway
skywriting
slab
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slack
slack suit
slack water
slack-jawed
slacken
slacker
slacks
slag
slain
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slaked lime
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slam
slam-bang
slander
slang
slangy
slant
slant rhyme
slantwise
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slap-bang
slap-up
slapdash
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slapjack
slapstick
slash
slash pocket
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slater
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slating
slatertn
slatternly
slaty
slaughter
slaughterhouse
slave
slave ant
slave driver
slave ship
slave-making ant
slaveholder
slaver
slavery
slavey
slavish
slavocracy
slaw
slay
sld.
sleave
sleazy
sled
sledge
sledgehammer
sleek
sleekit
sleep
sleep around
sleep with
sleeper
sleeping
sleeping bag
sleeping beauty
sleeping car
sleeping draught
sleeping partner
sleeping pill
sleeping sickness
sleepless
sleepwalk
sleepy
sleepyhead
sleet
sleety
sleeve
sleigh
sleight
sleight of hand
slender
slenderize
sleuth
sleuthhound
slew
slice
slice bar
slicer
slick
slickenside
slicker
slide
slide fastener
slide rule
slide trombone
slide valve
slide-action
slider
sliding
sliding scale
slier
sliest
slight
slighting
slightly
slily
slim
slime
slime mold
slimy
sling
sling psychrometer
slinger ring
slingshot
slink
slinky
slip
slip ring
slip stitch
slip up
slip-on
slipcase
slipcover
slipknot
slipnoose
slipover
slippage
slipper
slipperwort
slippery
slippery elm
slippy
slipsheet
slipshod
slipslop
slipstream
slipway
slit
slit trench
slither
sliver
slivovitz
slob
slob ice
slobber
slobery
sloe
sloe gin
slog
slogan
sloganeer
sloop
sloop of war
slop
slope
sloppy
slopwork
slosh
sloshy
slot
slot machine
sloth
smack
smack-dab
smacker
smacking
small
small arms
small beer
small calorie
small capital
small change
small circle
small fry
small hours
small intestine
small pica
small potatoes
small slam
small stores
small stuff
small talk
small-minded
small-scale
small-time
smallage
smallclothes
smallish
smallmouth bass
smallpox
smallsword
smalt
smaltite
smalto
smaragd
smaragdine
smaragdite
smarm
smarmy
smart
smart aleck
smart money
smart set
smarten
smash
smash-and-grab
smash-up
smashed
smasher
smashing
smatter
smattering
smaze
smear
smear word
smearcase
smectic
smegma
smell
smelling bottle
smelling salts
smelly
smelt
smelter
smew
smidgen
smilacaceous
smilax
smile
smirch
smirk
smite
smith
smithereens
smithery
smithsonite
smithy
smitten
smock
smock frock
smock mill
smocking
smog
smoke
smoke bomb
smoke out
smoke screen
smoke tree
smoke-dry
smokechaser
smokejumper
smokeless
smokeless powder
smokeproof
smoker
smokestack
smoking
smoking car
smoking jacket
smoking room
smoko
smoky
smoky quartz
smolder
smolt
smooedge
smooth
smooth breathing
smooth muscle
smooth over
smooth plane
smooth-shaven
smooth-spoken
smooth-tongued
smoothbore
smoothen
smoothie
smoothing iron
smorgasbord
smote
smother
smothered mate
smoulder
smriti
smudge
smug
smuggle
smut
smutch
smutchy
smutty
snack
snack bar
snaffle
snafu
snag
snaggletooth
snaggy
snail
snail's pace
snail-paced
snailfish
snake
snake charmer
snake dance
snakebird
snakebite
snakemouth
snakeroot
snaky
snap
snap bean
snap ring
snap roll
snap up
snapback
snapdragon
snapper
snapping turtle
snappish
snappy
snapshot
snare
snare drum
snarl
snatch
snatch block
snatchy
snath
snazzy
sneak
sneak preview
sneak thief
sneakbox
sneaker
sneakers
sneaking
sneaky
sneck
sneer
sneeze
sneeze at
snick
snicker
snide
sniff
sniff at
sniff out
sniffle
sniffy
snifter
snigger
sniggle
snip
snipe
sniper
sniperscope
snippet
snippy
snips
snitch
snivel
snob
snobbery
snobbish
snood
snook
snooker
snoop
snooperscope
snoopy
snooey
snooze
snore
snorkel
snort
snorter
snot
snotty
snout
snout beetle
snow
snow blindness
snow bunting
snow fence
snow goose
snow ice
snow job
snow leopard
snow line
snow plant
snow-blind
snow-clad
snow-in-summer
snow-on-the-mountain
snow-white
snowball
snowberry
snowbird
snowblink
snowbound
snowcap
snowdrift
snowdrop
snowfall
snowfield
snowflake
snowman
snowmobile
snowplow
snowshed
snowshoe
snowslide
snowstorm
snowy
snowy egret
snowy owl
snub
snub-nosed
snuck
snuff
snuffbox
snuffer
snuffle
snuffy
snug
snuggery
snuggle
so
so long
so-and-so
so-called
so-so
soak
soakage
soap
soap bubble
soap powder
soapbark
soapberry
soapbox
soapstone
soapsuds
soapwort
soapy
soar
soaring
soave
sob
sob sister
sob story
sober
sober-minded
sober-sided
sobriety
sobriquet
socage
soccer
sociability
sociable
social
social anthropology
social class
social climber
social contract
social democracy
social disease
social insurance
social organization
social psychology
social science
social security
social service
social welfare
social work
social worker
social-minded
socialism
socialist
socialistic
socialite
sociality
socialization
socialize
socialized medicine
societal
society
society verse
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socioeconomic
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sociolinguistics
sociology
sociometry
sociopath
sock
socket
socket wrench
solanaceous
solander
solano
solanum
solar
solar apex
solar battery
solar constant
solar day
solar eclipse
solar flare
solar month
solar plexus
solar system
solar wind
solar year
solarism
solarium
solarize
solatium
sold
solder
soldering iron
soldier
soldier of fortune
soldierly
soldiery
soldo
sole
solecism
solely
solemn
solemnity
solemnize
solenoid
solfatara
solfeggio
solferrino
solicit
solicitor
solicitor general
solicitous
solicitude
solid
solid angle
solid fuel
solid geometry
solid-state
solid-state physics
solidago
solidarity
solidary
solidify
solidus
solifidian
solifluction
soliloquize
soliloquy
solipsism
solitaire
solitary
solitary confinement
solitude
solleret
solmization
solo
solo whist
soloist
solstice
solubility
solubilize
soluble
soluble glass
solus
solute
solution
solvable
solve
solvency
solvent
solvolyis
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somatic cell
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somatology
somatoplasm
somatotype
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sombrero
sombreous
some
somebody
someday
somehow
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sororicide
sorority
sorosis
sorption
sorrel
sorrel tree
sorrow
sorry
sort
sort out
sortie
sortilege
sortition
sorus
sostenuto
sostenuto pedal
sot
soteriology
sotted
sottish
sotto voce
sou
sou'wester
souari nut
soubise
soubrette
soubriquet
souffle
sough
sought
sought-after
soul
soul mate
soul-searching
soulful
soulless
sound
sound barrier
sound effect
sound film
sound hole
sound man
sound out
sound ranging
sound shift
sound truck
sound wave
soundboard
sounder
sounding
sounding board
sounding lead
sounding line
sounding machine
soundless
soundproof
soup
soup kitchen
soup plate
soup-and-fish
soup spoon
soupy
sour
sour cherry
sour cream
sour gourd
sour grapes
sour gum
sour mash
source
source book
sourdine
sourdough
sourpuss
soursop
sourwood
sousaphone
souse
soutache
soutane
souter
souterrain
south
south by east
south by west
south-southeast
south-southwest
southbound
southeast
speaking
speaking trumpet
speaking tube
spear
spear grass
spear gun
spear side
spearhead
spearman
spearmint
spearwort
spec
spec.
special
special case
special committee
special court-martial
special delivery
special handling
special jury
special partner
special pleading
special privilege
special theory of relativity
specialism
specialist
specialistic
speciality
specialize
specialty
speciation
specie
species
specific
specific gravity
specific impulse
specific resistance
specific volume
specification
specify
specimen
speciosity
specious
speck
speckle
speckled trout
specs
spectacle
spectacled
spectacles
spectacular
spectator
spectatress
specter
spectra
spectral
spectre
spectrochemistry
spectrogram
spectrograph
spectroheliograph
spectrohelioscope
spectrometer
spectrophotometer
spectroradiometer
spectroscope
spectroscopy
spectrum
spectrum analysis
specular
speculate
speculation
speculative
speculator
speculum
speculum metal
sped
speech
speech community
speech island
speech organ
speechless
speechmaker
speechmaking
speed
speed demon
speed limit
speed up
speedball
speedboat
speedometer
speedway
speedwell
speedy
speiss
spelaean
speleology
spell
spell out
spellbind
spellbinder
spellbound
spelldown
speller
spelling
spelling bee
spelling book
spelling pronunciation
spelling reform
spelt
spelter
spelunker
spence
spencer
spend
spendable
spender
spending money
spendthrift
spent
spenos
sperm
sperm oil
sperm whale
spermaceti
spermary
spermatic
spermatic cord
spermatic fluid
spermatid
spermatium
spermatocyte
spermatogonium
spermatophore
spermatophyte
spermatozoid
spermatozoon
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spermicide
spermine
spermiogenesis
spermagonium
spermophile
spermophyte
spermous
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spew
sphecus
sphagnum
spalerite
spheine
spenic
speno-
sphenogram
sphenoid
sphere
sphere of influence
spherical
spherical aberration
spherical angle
spherical coordinates
spherical geometry
spherical polygon
spherical trigonometry
sphericity
spherics
spheroid
spheroidal
spheroidicity
spherule
sphelite
sphery
sphincter
sphingosine
sphinx
sphinx moth
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sphygmograph
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spicate
spiccato
spice
spiceberry
spicebush
spick-and-span
spicate
spicule
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spicy
spider
spider crab
spider monkey
spider phaeton
spiderwort
spidery
spiegeleisen
spiel
spieler
spier
spiffing
spify
spigot
spike
spike heel
spike lavender
spikelet
spikenard
spiky
spile
spill
spill over
spillage
spillway
spilt
spin
spin out
spin-dry
spin-off
spinach
spinal
spinal canal
spinal column
spinal cord
spindle
spindle tree
spindlelegs
spindling
spindly
spindrift
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spinel ruby
spineless
spinescent
spirketing
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spirochete
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spirogyra
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spirometer
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spirula
spiry
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spit and polish
spit curl
spital
spitball
spite
spiteful
spittfire
spitter
spittle
spittle insect
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splash
splashboard
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splasher
splashy
splat
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spleen
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splendent
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splenectomy
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sportswoman
sporty
sporulate
sporule
spot
spot announcement
spot check
spot-weld
spotless
spotlight
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spotted fever
spotter
spotty
spousal
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spraddle
sprag
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sprang
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sprawl
spray
spray gun
spread
spread eagle
spread-eagle
spreader
spree
sprig
sprightly
spring
spring balance
spring chicken
spring fever
spring line
spring tide
spring-clean
springboard
springbok
springe
springer
springer spaniel
springhalt
squash
squash bug
squash racquets
squashy
squat
squatness
squatting
squat terra
squatting sovereignty
squaw
squawk
squeak
squeaky
squeal
squeamish
squeegee
squeeze
squelch
squeteague
squib
squid
squiffy
squiggle
squilgee
squill
squinch
squint
squint-eyed
squinty
squire
squirearchy
squireen
squirm
squirming
squirmy
squirrel
squirrel cage
squirrel-tail grass
squirt
squirt gun
squirting cucumber
squish
squishy
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stability
stand down
stand for
stand oil
stand on
stand out
stand over
stand pat
stand up
stand-in
stand-up
standard
standard cost
standard deviation
standard gauge
standard of living
standard time
standard-bearer
standardize
standby
standee
standfast
standing
standing army
standing broad jump
standing committee
standing lug
standing order
standing rigging
standing wave
standoff
standoffish
standpipe
standpoint
standstill
stane
stang
stanhope
stank
stannary
stannic
stannite
stannum
stanza
stapes
staphylo-
staphylococcus
staphyloplasty
staphylorrhaphy
staple
stapler
star
star anise
star cloud
star drill
star grass
star sapphire
star shell
star-crossed
star-nosed mole
star-of-Bethlehem
star-shaped
star-spangled
star-studded
starboard
starch
starchy
stardom
stare
starfish
starflower
stark
stark-naked
starlet
starlight
starlike
starling
starred
starry
starry-eyed
start
start in
start off
start out
start up
starter
starting block
starting gate
startle
startling
starvation
starve
starveling
starwort
stash
stasis
stat.
steam heater
steam organ
steam point
steam room
steam shovel
steam turbine
steam up
steam whistle
steam-heated
steamboat
steamer
steamer chair
steamer rug
steamroller
steamship
steamtight
steamy
steapsin
stearic
stearic acid
stearin
stearoptene
steatite
steato-
steatopygia
stedfast
steed
steel
steel band
steel blue
steel engraving
steel guitar
steel mill
steel wool
steelhead
steelmaker
steels
steelwork
steelworker
steelworks
steelyard
steenbok
steep
steepen
steeple
steeplebush
steeplechase
steeplejack
stepdame
stepdaughter
stepfather
stephanotis
stepladder
stepmother
stepparent
steppe
stepper
stepsister
stepson
ster.
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sterculiaceous
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stereoisomer
stereoisomerism
stereometry
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stereophotography
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stereotropism
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steric
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sterilant
sterile
sterilization
sterilize
sterling
sterling silver
stern
stern sheets
stern-wheeler
sternforemost
sternmost
sternpost
sternson
sternum
sternutation
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sternway
steroid
sterol
sterlor
stertorous
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stethoscope
stevedore
stevedore's knot
stew
steward
stewardess
stewed
stewpan
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sthenic
stibine
stibnite
stick
stichometry
stichomythia
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stick at
stick insect
stick out
stick to
stick together
stick-in-the-mud
sticker
sticking plaster
stickle
stickleback
stickler
stickpin
stickseed
sticktight
stickup
stickweed
sticky
sticky wicket
stickybeak
stiff
stiff-necked
stiffen
stifle
stifling
stigma
stigmasterol
stigmatic
stigmatism
stigmatize
stilbestrol
stilbite
stile
stileto
still
still hunt
still life
still water
still-hunt
stillage
stillbirth
stillborn
stilliform
stillness
stilly
stilt
stilted
stimulant
stimulate
stimulative
stimulus
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stingaree
stinger
stinging hair
stinging nettle
stingo
stingy
stink
stink ball
stink bomb
stinker
stinkhorn
stomodaeum
stone
stone curlew
stone fruit
stone parsley
stone proof
stone’s throw
stone-blind
stone-broke
stone-dead
stone-deaf
stonechat
stonecrop
stonecutter
stoned
stonefish
stonefly
stonemason
stonewall
stoneware
stonework
stonewort
stony
stony coral
stony-broke
stony-hearted
stood
stooge
stook
stool
stool pigeon
stoop
stop
stop bath
stop order
stop payment
stop work
stop-off
stopcock
stope
stopgap
stoplight
stopover
stoppage
stopped
stopped diapason
stopper
stopping
stopple
stopwatch
storage
storage battery
storax
store
store-bought
storehouse
storekeeper
storeroom
stores
storey
storied
storiette
stork
storm
storm center
storm cloud
storm cone
storm door
storm petrel
storm troops
storm warning
storm window
stormproof
stormy
stormy petrel
story
story line
storybook
storyteller
storytelling
stoss
stotinka
stound
stoup
stour
stoush
stout
stouthearted
stove
stovepipe
stovepipe hat
stover
stow
stowage
stowaway
str.
strabismus
straddle
strafe
straggle
straight
straight and narrow
straight angle
straight chain
straight chair
straight face
straight joint
straight man
straight razor
straight ticket
straight-laced
straight-out
straightaway
straightedge
straighten
straighten out
straighten up
straightforward
straightjacket
straightway
strain
strain hardening
strained
strainer
strait
strait-laced
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straitjacket
straitlaced
strake
stramonium
strand
strange
strange particle
strangeness
stranger
strangle
stranglehold
strangles
strangulate
strangulation
strangury
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straphanger
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strappado
strapped
strapper
stripping
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strategist
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strath
strathspey
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straticulate
stratification
stratificational grammar
stratiform
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stratigraphy
stratocracy
stratocumulus
stratopause
stratosphere
stratovision
stratum
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straw man
straw vote
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strawberry
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strawberry bush
strawberry mark
strawberry tomato
strawberry tree
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strawflower
strawworm
stray
streak
streaky
stream
stream of consciousness
streamer
streaming
streamlet
streamline
streamlined
streamliner
streamway
streamy
street
street Arab
street certificate
street piano
streetcar
streetlight
streetwalker
strength
strengthen
strenuous
strep
streptitous
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streptokinase
streptomycin
streptothricin
stress
stressful
stretch
stretcher
stretcher-bearer
stretchy
stretto
streusel
strew
stria
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striated
striation
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stricken
strickle
strict
striction
strictly
stricture
stride
strident
stridor
stridulate
stridulous
strife
strigil
strigose
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strike off
strike out
strike pay
strike up
strike zone
strikebound
strikebreaker
striker
striking
string
string along
string band
string bass
string bean
string line
string orchestra
string quartet
string tie
stringboard
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stringed instrument
stringency
stringendo
stringent
stringer
stringhalt
stringpiece
stringy
strip
strip cropping
strip lighting
strip mining
strip poker
stripe
striped
striped bass
striper
stripling
stripper
striptease
stripteaser
stripy
strive
strobe
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strobilaceous
strobile
stroboscope
strobotron
strode
stroganoff
stroke
stroke play
stroll
stroller
strong
strong breeze
strong drink
strong gale
strong interaction
strong man
strong point
strong waters
strong-arm
strong-minded
strong-willed
strongbox
stronghold
strongroom
strontia
strontian
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strontium
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strop
strophanthin
strophanthus
strophe
strophic
stroud
strove
strow
stroy
struck
struck measure
structural
structural formula
structural geology
structural linguistics
structural psychology
structural steel
structuralism
structure
strudel
struggle
struggle for existence
strum
struma
strumpet
strung
strung out
strut
struthious
strutting
strychnic
strychnine
strychninism
stub
stub nail
stub tenon
stubbed
stubble
stubborn
stubby
stucco
stuccowork
stuck
stuck-up
stud
stud poker
studbook
studding
studdingsail
student
student teacher
studhorse
studied
studio
studio couch
studious
study
stuff
stuff gown
stuffed
stuffed shirt
stuffing
stuffing box
stuffy
stull
stultify
stumble
stumbling block
stumer
stump
stumpage
stumper
stumpy
stun
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stunner
stunning
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stupefaction
stupefy
stupendous
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stupidity
stupor
sturdy
sturgeon
stutter
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style
stylet
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stylus
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suable
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subfamily
subfloor
subfusc
subgenus
subglacial
subgroup
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subheading
subhuman
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subinfeudation
subirrigate
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subject
subjectmatter
subjectify
subjection
subjective
subjectiveidealism
subjectivism
subjoin
subjoinder
subjugate
subjunction
subjunctive
subkingdom
sublapsarianism
sublease
sublet
sublieutenant
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sublimation
sublume
subliminal
sublimity
sublingual
sublittoral
sublunar
sublunary
submachine gun
submarginal
submarine
submarine chaser
submariner
submaxillary
submediant
submerge
submerged
submergible
submerse
submersed
submersible
submicroscopic
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suborbital
suborder
subordinary
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subordinating conjunction
suborn
suboxide
subphylum
subplot
subpoena
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subreption
subrogate
subrogation
subroutine
subscapular
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subscription
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subsellium
subsequence
subsequent
subserve
subservience
subservient
subset
subshrub
subside
subsidence
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subsidy
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subsistence farming
subsistent
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substantiate
substantive
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substitute
substitution
substitutive
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subtotal
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subtraction
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subversion
subversive
subvert
subway
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success
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succinctarium
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succinic acid
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suckerfish
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suckle
suckling
sucrase
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sucrose
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suction pump
suction stop
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sudarium
sudatorium
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suet pudding
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sufferable
sufferance
suffering
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sulfamerazine
sulfanilamide
sulfapyrazine
sulfapyridine
sulfate
sulfate paper
sulfate pulp
sulfathiazole
sulfatize
sulfide
sulfite
sulfonate
sulfonation
sulfonmethane
sulfur
sulfur dioxide
sulfuric
sulfuric acid
sulfurous
sulk
sulky
sullage
sullen
sully
sulph-
sulphanilamide
sulphate
sulphathiazole
sulphide
sulphonamide
sulphonate
sulphone
sulphur
sulphur-bottom
sulphurate
sulphuric
sulphurize
sulphurous
sulphuryl
sultan
sultana
sultanate
sultry
sum
sum and substance
sum total
sum up
sumac
sumach
summa
summa cum laude
summand
summarize
summary
summary court-martial
summation
summer
summer school
summer solstice
summer squash
summerhouse
summerly
summersault
summertime
summertree
summerwood
summit
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summon
summons
sumnum bonum
sumo
sump
sumpter
sumption
sumptuary
sumptuary law
sumptuous
sun
sun bath
sun dance
sun deck
sun lamp
sun-dried
sun-god
suntaxed
sunbathe
sunbeam
sunbonnet
sunbow
sunbreak
sunburn
sunburst
superadd
superaltar
superannuate
superannuated
superannuation
superb
superbomb
supercargo
supercharge
supercharger
supercilious
superclass
supercolumnar
superconductivity
supercool
superdominant
superdreadnought
superego
superelevation
supereminent
supererogate
supererogation
supererogatory
superfamily
superfecundation
superfetation
superficial
superficies
superfine
superfluid
superfluity
superfluous
superfuse
supergalaxy
superheat
superheterodyne
superhigh frequency
superhighway
superhuman
superimpose
superimposed
superincumbent
superinduce
superintend
superintendency
superintendent
superior
superior court
superior planet
superiority
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sweet william
sweet woodruff
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thermal conductivity
thermal efficiency
thermal spring
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ticker tape
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ticking	tickle	tickler
tickler coil
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ticktock
tidal
tidal basin
tidal wave
tidbit	tiddly	tiddlywinks	tide
tide gate
tide over
tide table
tideland
tidemark
tidewater
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tie beam
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tie rod
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tigerish	tight	tight-lipped	tighten	tightfisted	tightrope	tightrope walker
tights
tightwad	tiglic acid	tigon	tigress	tike	tiki	til
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time and motion study	
time ball	
time bill	
time bomb	
time clock	
time constant	
time deposit	
time discount	
time draft	
time exposure	
time immemorial	
time loan	
time lock	
time money	
time of day	
time sharing	
time sheet	
time signal	
time signature	
time study
toad-in-the-hole
toad-eater
toad-fish
toad-flax
toad-stool
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toaster
toast-master	
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toffee
toffee-nosed

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togetherness
toggery
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toggle joint
toggle switch
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toilet set
toilet water
toiletry
tomfoolery
tommyrot
tomorrow
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tonality
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tone arm
tone control
tone deafness
tone down
tone language
tone poem
tone up
tone-deaf
toneless
toneme
tonic
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tonga
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tongue
tongue depressor
tongue twister
tongue-and-groove joint
tongue-lash
tongue-lashing
tongue-tied
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tonic accent
tonic sol-fa
tonic spasm	onicity
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tooth powder
tooth shell
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toothache tree
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toothpaste
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toothwort
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top banana
top boot
top dog
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top hat
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top out
top-drawer
top-dress
top-heavy
top-hole
top-level
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topflight
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topgallant
topgallant mast
topgallant sail
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topological space
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toponymy
topotype
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topside
topsoil
topsy-turvy
topsy-turvydom
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torbernite
torch
torch song
torchbearer
torchier
torchon lace
torchwood
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tortuous
torture
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toss off
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total depravity
total eclipse
total recall
totalitarian
totalitarianism
totality
totalizator
totalizer
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toucan	ouch	touch and go	touch football
touch off
touch system
touch-and-go
touch-me-not
touchback
touchdown	touched
touchhole
touching	touchline
touchstone
touchwood	touchy	tough	tough-minded
toughen
toughie
toupee
tour
tour de force
touraco
tourbillion
tourer
touring car
tourism
tourist
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tourmaline
tournament
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tous-les-mois	
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tout de suite
tout ensemble
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towing path

towline
town
town clerk
town crier
town hall
town house
town meeting
town planning
townscape
townsfolk
township
townsman
townspeople
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towpath
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toxophilite
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toy dog
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track down
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transparent
transpicuous
transpierce
transpire
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transpolar
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trapezoid
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trappings
traprock
traps
trapshooting
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treaty port
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treble clef	trebuchet
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tree creeper
tree farm
tree fern
tree frog
tree heath
tree kangaroo
tree of heaven
tree of knowledge of good and evil
tree of life
tree shrew
tree sparrow
tree surgery
tree swallow
tree toad
treed
treehopper
teen
treenail
treenware
tref	trefoil
trehala	trehalose	treillage	trek
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trelliswork	trematode	tremble	trembles	trembly	tremendous	tremolant	tremolite	tremolo
tremor
tremulant	tremulous
trenail	trench	trench coat
trench fever
trench foot
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true course
true level
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twelfth	welve
twelve-mile limit
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twelve-tone row
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twenty
twenty-four
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twenty-one
twenty-two
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twice
twice-told
twiddle	wig	wiggy	wilight	wilight sleep	wilight zone	will	win	win bed	win bill	win-lens reflex	win-screw	winberry	wine	winflower	winge	wink	winkle	winkling	winned	wirld	wird	wrist	wrist drill	wister	wit	witch	witter	wittery	wo	wo-bit	wo-by-four	two-color
two-cycle
two-dimensional
two-edged
two-faced
two-four time
two-handed
two-part time
two-party system
two-phase
two-piece
two-ply
two-seater
two-sided
two-spot
two-step
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vasodilator
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vertical circle
vertical envelopment
vertical mobility
vertical stabilizer
vertical union
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via media
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viator
vibes
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vinasse
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vindictive
vine
vinegar
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QUICK START

17 May 93

Copy all the files on all the disks to a folder on your hard disk
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Change your current directory ('CD') to that folder,
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MOBY WORDS II CONTENTS

354,984 single words
Over 354,000 single words, excluding proper names, acronyms, or compound words and phrases. This list does not exclude archaic words or significant variant spellings.

256,772 compound words
Over 256,700 hyphenated or other entries containing more than one word as well as all capitalized words and acronyms. Phrases were considered 'common' if they or variations of them occur in standard dictionaries or thesauruses.

113,809 official crosswords
A list of words permitted in crossword games such as Scrabble(tm). Compatible with the first edition of the Official Scrabble Players Dictionary(tm). Since this list has all forms: -ing, -ed, -s, and so on of words, it makes a good addition when building a custom spelling dictionary.

4,160 official crosswords delta
When combined with the 113,809 crosswords file, it produces the
official crossword list compatible with the second edition of the
Official Scrabble Players Dictionary. (Scrabble is a registered
trademark of Milton-Bradley licensed to Merriam-Webster.)

74,550 common dictionary words
A list of words in common with two or more published dictionaries.
This gives the developer of a custom spelling checker a good beginning
pool of relatively common words.

21,986 names
This database contains the most common names used in the
United States and Great Britain. Spelling checkers may want to
supplement their basic word list with this one.

4,946 female names
frequent given names of females in English speaking countries

3,897 male names
frequent given names of males in English speaking countries

10,196 places
a large selection of place names in the United States

1,000 by frequency
This file consists of the 1,000 most frequently used
English words from a wide variety of common texts listed
in decreasing order of frequency

1,000 by frequency internet
This file consists of the 1,000 most frequently used
English words as used on the Internet computer network in 1992.

6,213 acronyms
common acronyms & abbreviations

1,185 King James Version frequent substrings
The most frequently occurring 1,185 substrings in the King James
Version Bible ranked and counted by order of frequency.

467 current fiction substrings
The most frequently occurring 467 substrings occurring in a

USA Constitution
The Constitution of the United States, including the Bill of Rights
and all amendments current to 1993.

NOTE: Accents have been stripped from words, e.g., 'etude'
1.2166 apache-log4j 2.12.1

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1.2169 bash 4.4.20
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Sure. The canonical versions are available on ftp.armory.com; you might want to pick up the latest versions before modifying them.

John

On May 9, 1:36pm, Chet Ramey wrote:

Subject: ksh scripts
From: Odin.INS.CWRU.Edu!chet Tue May 9 10:39:51 1995
Received: from Odin.INS.CWRU.Edu by deepthought.armory.com id A22336; Tue, 9 May 1995 13:39:24 -0700
X-Www: http://www.armory.com/~spcecdt/
X-Mailer: Mail User's Shell (7.2.5 10/14/92)
To: Chet@po.cwru.edu
Subject: Re: ksh scripts
Message-ID: <9505092233.aa13001@deepthought.armory.com>

Sure. The canonical versions are available on ftp.armory.com; you might want to pick up the latest versions before modifying them.

John
Hi. I'm the maintainer of bash (the GNU `Bourne Again shell') for
the FSF.

I picked up a tar file of ksh scripts you wrote from an anon FTP site
a while back. I'd like your permission to include modified versions
of some of them in the next major bash distribution (with proper credit
given, of course). Is it OK if I do that?

Chet Ramey

``The lyf so short, the craft so long to lerne.'’ - Chaucer

Chet Ramey, Case Western Reserve University
Internet: chet@po.CWRU.Edu

-- End of excerpt from Chet Ramey

From friedman@gnu.ai.mit.edu Thu May 25 12:19:06 1995
Flags: 10
Return-Path: friedman@gnu.ai.mit.edu
Received: from cli.com (cli.com [192.31.85.1]) by po.cwru.edu with SMTP
(8.6.10+cwru/CWRU-2.3)
id MAA11299; Thu, 25 May 1995 12:19:00 -0400 (from friedman@cli.com for <chet@po.cwru.edu>)
Received: from cli.com (cli.com [192.31.85.1]) by po.cwru.edu with SMTP (8.6.10+cwru/CWRU-2.3)
id MAA11299; Thu, 25 May 1995 12:19:00 -0400 (from friedman@cli.com for <chet@po.cwru.edu>)
Received: from tepui.cli.com by cli.com (4.1/SMI-4.1)
id AA27213; Thu, 25 May 95 11:18:25 CDT
Received: by tepui.cli.com (4.1) id AA16031; Thu, 25 May 95 11:18:23 CDT
Message-Id: <9505251618.AA16031@tepui.cli.com>
From: friedman@gnu.ai.mit.edu (Noah Friedman)
To: chet@po.cwru.edu
Subject: Bash scripts
Reply-To: friedman@gnu.ai.mit.edu
In-Reply-To: <chet@odin.ins.cwru.edu> Thu, 25 May 1995 11:59 -0400
References: <9505251519.AA06424.SM@odin.INS.CWRU.Edu>
Date: Thu, 25 May 95 11:18:21 CST

>Hi. I snagged some of your bash functions from your home directory on
Sure. I think there's a later copy in
~ftp/friedman/shell-inits/init-4.89.tar.gz. There are also some elisp and
es frobs in that file.

It should serve as a pretty good example of how to get carried away. :-)
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@c Local Variables:
@c ispell-local-pdict: "ispell-dict"
@c End:

From mikel@ora.com Tue Aug 1 12:13:20 1995
Flags: 10
Return-Path: mikel@ora.com
Received: from ruby.ora.com (ruby.ora.com [198.112.208.25]) by odin.INS.CWRU.Edu with ESMTP (8.6.12+cwru/CWRU-2.1-ins) id MAA01565; Tue, 1 Aug 1995 12:13:18 -0400 (from mikel@ora.com for <chet@odin.INS.CWRU.Edu>)
Received: (from fax@localhost) by ruby.ora.com (8.6.12/8.6.11) with UUCP id MAA23251; Tue, 1 Aug 1995 12:07:51 -0400
Received: by los.ora.com (4.1/Spike-2.1) id AA00672; Tue, 1 Aug 95 08:57:32 EDT
Date: Tue, 1 Aug 95 08:57:32 EDT
From: mikel@ora.com (Michael Loukides)
Message-Id: <9508011257.AA00672@los.ora.com>
Subject: Re: Ksh debugger from Rosenblatt's book [for bash]
To: Chet Ramey <chet@odin.INS.CWRU.Edu>
Cc: cmarie@ora.com, cam@iinet.com.au, brosenblatt@tm.com
In-Reply-To: Chet Ramey <chet@odin.INS.CWRU.Edu>, Mon, 31 Jul 1995 16:22:48 -0400

I've modified a (modified) version of Bill Rosenblatt's ksh debugger
to work with bash-2.0. Does ORA have any problem with me distributing
it with bash-2.0?

That's great!

Go ahead and circulate it; in fact, we should probably grab it and
stick it in our ftp archive, and put a reference to it in the book.
(Too late to actually discuss the thing, at least for this edition).

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**1.2170 grub2 2.02-2ubuntu8.21**

**1.2170.1 Available under license:**

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1.2178 xz 5.0.5
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@end enumerate

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The reason we have a separate public license for some libraries is that they blur the distinction we usually make between modifying or adding to a program and simply using it. Linking a program with a library, without changing the library, is in some sense simply using the library, and is analogous to running a utility program or application program. However, in a textual and legal sense, the linked executable is a combined work, a derivative of the original library, and the ordinary General Public License treats it as such.

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However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.

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table, the facility still operates, and performs whatever part of
its purpose remains meaningful.

(For example, a function in a library to compute square roots has
a purpose that is entirely well-defined independent of the
application. Therefore, Subsection 2d requires that any
application-supplied function or table used by this function must
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Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands as a successor of a language called ABC. Guido remains Python’s principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see http://www.cnri.reston.va.us) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope Corporation, see http://www.zope.com). In 2001, the Python Software Foundation (PSF, see http://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of the PSF.

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1.2188 http-errors 1.7.2

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1.2190 d3-selection 1.4.1

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1.2191 d3-scale 2.2.2

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1.2192 gawk 4.1.4

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1.2193 debconf 1.5.66ubuntu1

1.2194 openjdk 11.0.4

1.2194.1 Available under license :

## Pako v1.0

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## Install
```

```

## Usage
```

```js
var hash = require('hash.js')
hash.sha256().update('abc').digest('hex')
```

## Selective hash usage
```

```js
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*/
/
/*
* config.h -- configure various defines for tcsh
 *
* All source files should #include this FIRST.
 *
* Edit this to match your system type.
 */

#ifndef _h_config
#define _h_config

/****************** System dependant compilation flags ******************/
/
* POSIX This system supports IEEE Std 1003.1-1988 (POSIX).
*/
#undef POSIX

/*
* POSIXJOBS This system supports the optional IEEE Std 1003.1-1988 (POSIX)
* job control facilities.
*/
#undef POSIXJOBS

/*
* VFORK This machine has a vfork().
* It used to be that for job control to work, this define
* was mandatory. This is not the case any more.
* If you think you still need it, but you don't have vfork,
* define this anyway and then do #define vfork fork.
* I do this anyway on a Sun because of yellow pages brain damage,
* [should not be needed under 4.1]
* and on the iris4d cause SGI's fork is sufficiently "virtual"
* that vfork isn't necessary. (Besides, SGI's vfork is weird).
* Note that some machines eg. rs6000 have a vfork, but not
* with the berkeley semantics, so we cannot use it there either.
*/
#define VFORK

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/*
 * BSDJOBS
 * You have BSD-style job control (both process groups and
 * a tty that deals correctly
 */
#define BSDJOBS

/*
 * BSDTIMES
 * You have BSD-style process time stuff (like rusage)
 * This may or may not be true. For example, Apple Unix
 * (OREO) has BSDJOBS but not BSDTIMES.
 */
#define BSDTIMES

/*
 * BSDLIMIT
 * You have BSD-style resource limit stuff (getrlimit/setrlimit)
 */
#define BSDLIMIT

/*
 * TERMIO
 * You have struct termio instead of struct sgttyb.
 * This is usually the case for SYSV systems, where
 * BSD uses sgttyb. POSIX systems should define this
 * anyway, even though they use struct termios.
 */
#undef TERMIO

/*
 * SYSVREL
 * Your machine is SYSV based (HPUX, A/UX)
 * NOTE: don't do this if you are on a Pyramid -- tsh is
 * built in a BSD universe.
 * Set SYSVREL to 1, 2, 3, or 4, depending the version of System V
 * you are running. Or set it to 0 if you are not SYSV based
 */
#define SYSVREL 0

/*
 * YPBUGS
 * Work around Sun YP bugs that cause expansion of ~username
 * to send command output to /dev/null
 */
#undef YPBUGS

/****************** local defines ******************/

#endif /* _h_config */
1.2200 harfbuzz 1.7.2 1ubuntu1

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jsward@bzip.org
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Gocheck - A rich testing framework for Go

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@item
If a facility in the modified Library refers to a function or a
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the facility, other than as an argument passed when the facility
is invoked, then you must make a good faith effort to ensure that,
in the event an application does not supply such function or
table, the facility still operates, and performs whatever part of
its purpose remains meaningful.

(For example, a function in a library to compute square roots has
a purpose that is entirely well-defined independent of the
application. Therefore, Subsection 2d requires that any
application-supplied function or table used by this function must
be optional: if the application does not supply it, the square
root function must still compute square roots.)
@end enumerate

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@item
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@item
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@item
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@enumerate a
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@var{signature of Ty Coon}, 1 April 1989
Ty Coon, President of Vice
@end example

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<body>

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<span class="icon-bar"></span>
<span class="icon-bar"></span>
</button>
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</div>
<div class="collapse navbar-collapse" id="mainnav-collapse">
<div style="line-height:20px; padding-top:5px; float:left"><a href="/">Home</a> &raquo <a href="/licenses/">Licenses</a></div>
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<li><a href="/foundation/members.html/">Members</a></li>
<li><a href="/foundation/how-it-works.html/">Process</a></li>
<li><a href="/foundation/sponsorship.html/">Sponsorship</a></li>
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</nav>
</header>
</body>
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Version 2.0, January 2004

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Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

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The "source code" for a work means the preferred form of the work for making modifications to it. "Object code" means any non-source form of a work.

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1.2233 base-files 10.1ubuntu2.10

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```
<program> Copyright (C) <year> <name of author>
This program comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it under certain conditions; type `show c' for details.
```

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Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI) in the Netherlands as a successor of a language called ABC. Guido is Python's principal author, although it includes many contributions from others. The last version released from CWI was Python 1.2. In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI) in Reston, Virginia where he released several versions of the software. Python 1.6 was the last of the versions released by CNRI. In 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. Python 2.0 was the first and only release from BeOpen.com.

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=head1 NAME

threads - Perl interpreter-based threads

=head1 VERSION

This document describes threads version 1.87

=head1 SYNOPSIS

use threads ('yield',
  'stack_size' => 64*4096,
  'exit' => 'threads_only',
  'stringify');

sub start_thread {
  my @args = @_;;
  print('Thread started: ', join(' ', @args), "\n");
}
my $thr = threads->create('start_thread', 'argument');
$thr->join();
threads->create(sub { print("I am a thread\n"); })->join();

my $thr2 = async { foreach (@files) { ... } };
$thr2->join();
if (my $err = $thr2->error()) {
  warn("Thread error: $err\n");
}

# Invoke thread in list context (implicit) so it can return a list
my ($thr) = threads->create(sub { return (qw/a b c/); });
# or specify list context explicitly
my $thr = threads->create({'context' => 'list'},
  sub { return (qw/a b c/); });
my @results = $thr->join();

$thr->detach();

# Get a thread's object
$thr = threads->self();
$thr = threads->object($tid);

# Get a thread's ID
$tid = threads->tid();
$tid = $thr->tid();
$tid = "$thr";

# Give other threads a chance to run
threads->yield();
yield();

# Lists of non-detached threads
my @threads = threads->list();
my $thread_count = threads->list();

my @running = threads->list(threads::running);
my @joinable = threads->list(threads::joinable);

# Test thread objects
if ($thr1 == $thr2) {
    ...
}

# Manage thread stack size
$stack_size = threads->get_stack_size();
$old_size = threads->set_stack_size(32*4096);

# Create a thread with a specific context and stack size
my $thr = threads->create( ['context' => 'list',
                            'stack_size' => 32*4096,
                            'exit' => 'thread_only'],
                           &foo);

# Get thread's context
my $wantarray = $thr->wantarray();

# Check thread's state
if ($thr->is_running()) {
    sleep(1);
}
if ($thr->is_joinable()) {
    $thr->join();
}

# Send a signal to a thread
$thr->kill('SIGUSR1');

# Exit a thread
threads->exit();

=head1 DESCRIPTION
Since Perl 5.8, thread programming has been available using a model called
<interpreter threads> which provides a new Perl interpreter for each
thread, and, by default, results in no data or state information being shared
between threads.

(Prior to Perl 5.8, <5005threads> was available through the C<Thread.pm> API.
This threading model has been deprecated, and was removed as of Perl 5.10.0.)

As just mentioned, all variables are, by default, thread local. To use shared
variables, you need to also load L<threads::shared>:

    use threads;
    use threads::shared;

When loading L<threads::shared>, you must C<use threads> before you
C<use threads::shared>. (C<threads> will emit a warning if you do it the
other way around.)

It is strongly recommended that you enable threads via C<use threads> as early
as possible in your script.

If needed, scripts can be written so as to run on both threaded and
non-threaded Perls:

    my $can_use_threads = eval 'use threads; 1';
    if ($can_use_threads) {
        # Do processing using threads
        ...
    } else {
        # Do it without using threads
        ...
    }

=item $thr = threads->create(FUNCTION, ARGS)

This will create a new thread that will begin execution with the specified
entry point function, and give it the I<ARGS> list as parameters. It will
return the corresponding threads object, or C<undef> if thread creation failed.

I<FUNCTION> may either be the name of a function, an anonymous subroutine, or
a code ref.

    my $thr = threads->create('func_name', ...);
    # or
    my $thr = threads->create(sub { ... }, ...);
    # or
my $thr = threads->create(\&func, ...);
The C<-E<gt>new()> method is an alias for C<-E<gt>create()>.
=item $thr->join()
This will wait for the corresponding thread to complete its execution. When
the thread finishes, C<-E<gt>join()> will return the return value(s) of the
entry point function.
The context (void, scalar or list) for the return value(s) for C<-E<gt>join()>
is determined at the time of thread creation.
# Create thread in list context (implicit)
my ($thr1) = threads->create(sub {
my @results = qw(a b c);
return (@results);
});
# or (explicit)
my $thr1 = threads->create({'context' => 'list'},
sub {
my @results = qw(a b c);
return (@results);
});
# Retrieve list results from thread
my @res1 = $thr1->join();
# Create thread in scalar context (implicit)
my $thr2 = threads->create(sub {
my $result = 42;
return ($result);
});
# Retrieve scalar result from thread
my $res2 = $thr2->join();
# Create a thread in void context (explicit)
my $thr3 = threads->create({'void' => 1},
sub { print("Hello, world\n"); });
# Join the thread in void context (i.e., no return value)
$thr3->join();
See L</"THREAD CONTEXT"> for more details.
If the program exits without all threads having either been joined or
detached, then a warning will be issued.
Calling C<-E<gt>join()> or C<-E<gt>detach()> on an already joined thread will
cause an error to be thrown.

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=item $thr->detach()

Makes the thread unjoinable, and causes any eventual return value to be
discarded. When the program exits, any detached threads that are still
running are silently terminated.

If the program exits without all threads having either been joined or
detached, then a warning will be issued.

Calling C<-E<gt>join()> or C<-E<gt>detach()> on an already detached thread
will cause an error to be thrown.

=item threads->detach()

Class method that allows a thread to detach itself.

=item threads->self()

Class method that allows a thread to obtain its own I<threads> object.

=item $thr->tid()

Returns the ID of the thread. Thread IDs are unique integers with the main
thread in a program being 0, and incrementing by 1 for every thread created.

=item threads->tid()

Class method that allows a thread to obtain its own ID.

=item "$thr"

If you add the C<stringify> import option to your C<use threads> declaration,
then using a threads object in a string or a string context (e.g., as a hash
key) will cause its ID to be used as the value:

use threads qw(stringify);

my $thr = threads->create(...);
print("Thread $thr started\n");  # Prints out: Thread 1 started...

=item threads->object($tid)

This will return the I<threads> object for the I<active> thread associated
with the specified thread ID. If C<$tid> is the value for the current thread,
then this call works the same as C<-E<gt>self()> . Otherwise, returns C<undef>
if there is no thread associated with the TID, if the thread is joined or
detached, if no TID is specified or if the specified TID is undef.
This is a suggestion to the OS to let this thread yield CPU time to other threads. What actually happens is highly dependent upon the underlying thread implementation.

You may do C<use threads qw(yield)>, and then just use C<yield()> in your code.

With no arguments (or using C<threads::all>) and in a list context, returns a list of all non-joined, non-detached I<threads> objects. In a scalar context, returns a count of the same.

With a I<true> argument (using C<threads::running>), returns a list of all non-joined, non-detached I<threads> objects that are still running.

With a I<false> argument (using C<threads::joinable>), returns a list of all non-joined, non-detached I<threads> objects that have finished running (i.e., for which C<-E<gt>join()> will not I<block>).

Tests if two threads objects are the same thread or not. This is overloaded to the more natural forms:

```perl
if ($thr1 == $thr2) {
    print("Threads are the same\n");
}
# or
if ($thr1 != $thr2) {
    print("Threads differ\n");
}
```

(Thread comparison is based on thread IDs.)

C<async> creates a thread to execute the block immediately following it. This block is treated as an anonymous subroutine, and so must have a
Threads are executed in an \texttt{eval} context. This method will return \texttt{undef} if the thread terminates \texttt{normally}. Otherwise, it returns the value of \texttt{$@} associated with the thread's execution status in its \texttt{eval} context.

\texttt{threads->_handle()}

This \texttt{private} method returns the memory location of the internal thread structure associated with a \texttt{threads} object. For Win32, this is a pointer to the \texttt{HANDLE} value returned by \texttt{CreateThread} (i.e., \texttt{HANDLE *}); for other platforms, it is a pointer to the \texttt{pthread_t} structure used in the \texttt{pthread_create} call (i.e., \texttt{pthread_t *}).

This method is of no use for general Perl threads programming. Its intent is to provide other (XS-based) thread modules with the capability to access, and possibly manipulate, the underlying thread structure associated with a Perl thread.

\texttt{threads->_handle()}

Class method that allows a thread to obtain its own \texttt{handle}.

EXITING A THREAD

The usual method for terminating a thread is to \texttt{return EXPR} from the entry point function with the appropriate return value(s).

\texttt{threads->exit()}

If needed, a thread can be exited at any time by calling \texttt{threads->exit()}. This will cause the thread to return \texttt{undef} in a scalar context, or the empty list in a list context.

When called from the \texttt{main} thread, this behaves the same as \texttt{exit(0)}.

\texttt{threads->exit(status)}

When called from a thread, this behaves like \texttt{threads->exit()} (i.e., the exit status code is ignored).
When called from the **main** thread, this behaves the same as `<exit(status)>`.

=item die()

Calling `die()` in a thread indicates an abnormal exit for the thread. Any `SIG{__DIE__}` handler in the thread will be called first, and then the thread will exit with a warning message that will contain any arguments passed in the `die()` call.

=item exit(status)

Calling `<exit(EXPR)>` inside a thread causes the whole application to terminate. Because of this, the use of `exit()` inside threaded code, or in modules that might be used in threaded applications, is strongly discouraged.

If `exit()` really is needed, then consider using the following:

```
threads->exit() if threads->can('exit');  # Thread friendly exit(status);
```

=item use threads 'exit' => 'threads_only'

This globally overrides the default behavior of `exit()` inside a thread, and effectively causes such calls to behave the same as `threads-E<gt>exit()`. In other words, with this setting, calling `exit()` causes only the thread to terminate.

Because of its global effect, this setting should not be used inside modules or the like.

The **main** thread is unaffected by this setting.

=item threads->create({'exit' => 'thread_only'}, ...)

This overrides the default behavior of `exit()` inside the newly created thread only.

=item $thr->set_thread_exit_only(boolean)

This can be used to change the `exit thread only` behavior for a thread after it has been created. With a `true` argument, `exit()` will cause only the thread to exit. With a `false` argument, `exit()` will terminate the application.

The **main** thread is unaffected by this call.
=item threads->set_thread_exit_only(boolean)

Class method for use inside a thread to change its own behavior for C<exit()>.

The I<main> thread is unaffected by this call.

=back

=head1 THREAD STATE

The following boolean methods are useful in determining the I<state> of a thread.

=over

=item $thr->is_running()

Returns true if a thread is still running (i.e., if its entry point function has not yet finished or exited).

=item $thr->is_joinable()

Returns true if the thread has finished running, is not detached and has not yet been joined. In other words, the thread is ready to be joined, and a call to C<$thr-E<gt>join()> will not I<block>.

=item $thr->is_detached()

Returns true if the thread has been detached.

=item threads->is_detached()

Class method that allows a thread to determine whether or not it is detached.

=back

=head2 THREAD CONTEXT

As with subroutines, the type of value returned from a thread's entry point function may be determined by the thread's I<context>: list, scalar or void. The thread's context is determined at thread creation. This is necessary so that the context is available to the entry point function via L<wantarray()> perlfunc/"wantarray">. The thread may then specify a value of the appropriate type to be returned from C<E<gt>join()>.

=head2 Explicit context

Because thread creation and thread joining may occur in different contexts, it
may be desirable to state the context explicitly to the thread's entry point
function. This may be done by calling \texttt{create()} with a hash reference
as the first argument:

\begin{verbatim}
my $thr = threads->create({'context' => 'list'}, \&foo);
...
my @results = $thr->join();
\end{verbatim}

In the above, the threads object is returned to the parent thread in scalar
context, and the thread's entry point function \texttt{foo} will be called in list
(array) context such that the parent thread can receive a list (array) from
the \texttt{join()} call. (\texttt{array} is synonymous with \texttt{list}.)

Similarly, if you need the threads object, but your thread will not be
returning a value (i.e., I<void> context), you would do the following:

\begin{verbatim}
my $thr = threads->create({'context' => 'void'}, \&foo);
...
$thr->join();
\end{verbatim}

The context type may also be used as the I<key> in the hash reference followed
by a I<true> value:

\begin{verbatim}
threads->create({'scalar' => 1}, \&foo);
...
my ($thr) = threads->list();
my $result = $thr->join();
\end{verbatim}

=head2 Implicit context

If not explicitly stated, the thread's context is implied from the context
of the \texttt{create()} call:

\begin{verbatim}
# Create thread in list context
my ($thr) = threads->create(...);

# Create thread in scalar context
my $thr = threads->create(...);

# Create thread in void context
threads->create(...);
\end{verbatim}

=head2 $thr->wantarray()

This returns the thread's context in the same manner as
\texttt{wantarray()}.

=head2 threads->wantarray()
Class method to return the current thread's context. This returns the same value as running `wantarray()` inside the current thread's entry point function.

=head1 THREAD STACK SIZE

The default per-thread stack size for different platforms varies significantly, and is almost always far more than is needed for most applications. On Win32, Perl's makefile explicitly sets the default stack to 16 MB; on most other platforms, the system default is used, which again may be much larger than is needed.

By tuning the stack size to more accurately reflect your application's needs, you may significantly reduce your application's memory usage, and increase the number of simultaneously running threads.

Note that on Windows, address space allocation granularity is 64 KB, therefore, setting the stack smaller than that on Win32 Perl will not save any more memory.

=item threads->get_stack_size();

Returns the current default per-thread stack size. The default is zero, which means the system default stack size is currently in use.

=item $size = $thr->get_stack_size();

Returns the stack size for a particular thread. A return value of zero indicates the system default stack size was used for the thread.

=item $old_size = threads->set_stack_size($new_size);

Sets a new default per-thread stack size, and returns the previous setting.

Some platforms have a minimum thread stack size. Trying to set the stack size below this value will result in a warning, and the minimum stack size will be used.

Some Linux platforms have a maximum stack size. Setting too large of a stack size will cause thread creation to fail.

If needed, C<$new_size> will be rounded up to the next multiple of the memory page size (usually 4096 or 8192).

Threads created after the stack size is set will then either call
C<pthread_attr_setstacksize()> or supply the stack size to C<CreateThread()> for Win32 Perl.

(Obviously, this call does not affect any currently extant threads.)

=item use threads ('stack_size' => VALUE);

This sets the default per-thread stack size at the start of the application.

=item $ENV{'PERL5_ITHREADS_STACK_SIZE'}

The default per-thread stack size may be set at the start of the application through the use of the environment variable C<PERL5_ITHREADS_STACK_SIZE>:

```
PERL5_ITHREADS_STACK_SIZE=1048576
export PERL5_ITHREADS_STACK_SIZE
perl -e'use threads; print(threads->get_stack_size(), "\n")'
```

This value overrides any C<stack_size> parameter given to C<use threads>. Its primary purpose is to permit setting the per-thread stack size for legacy threaded applications.

=item threads->create({'stack_size' => VALUE}, FUNCTION, ARGS)

To specify a particular stack size for any individual thread, call C<-E<gt>create()> with a hash reference as the first argument:

```
my $thr = threads->create({'stack_size' => 32*4096}, \&foo, @args);
```

=item $thr2 = $thr1->create(FUNCTION, ARGS)

This creates a new thread (C<$thr2>) that inherits the stack size from an existing thread (C<$thr1>). This is shorthand for the following:

```
my $stack_size = $thr1->get_stack_size();
my $thr2 = threads->create({'stack_size' => $stack_size}, FUNCTION, ARGS);
```

=back

=head1 THREAD SIGNALLING

When safe signals is in effect (the default behavior - see L</"Unsafe signals"> for more details), then signals may be sent and acted upon by individual threads.

=over 4

=item $thr->kill('SIG...');
Sends the specified signal to the thread. Signal names and (positive) signal numbers are the same as those supported by \texttt{kill()}|perlfunc/"kill SIGNAL, LIST">. For example, 'SIGTERM', 'TERM' and (depending on the OS) 15 are all valid arguments to \texttt{kill()}. 

Returns the thread object to allow for method chaining:

\[
\texttt{$thr->kill('SIG...')->join();}
\]

Signal handlers need to be set up in the threads for the signals they are expected to act upon. Here's an example for cancelling a thread:

\begin{verbatim}
use threads;
sub thr_func
{
    # Thread 'cancellation' signal handler
    $SIG{'KILL'} = sub { threads->exit(); };

    ...
}

# Create a thread
my $thr = threads->create('thr_func');

...

# Signal the thread to terminate, and then detach
# it so that it will get cleaned up automatically
$thr->kill('KILL')->detach();
\end{verbatim}

Here's another simplistic example that illustrates the use of thread signalling in conjunction with a semaphore to provide rudimentary suspend and resume capabilities:

\begin{verbatim}
use threads;
use Thread::Semaphore;

sub thr_func
{
    my $sema = shift;

    # Thread 'suspend/resume' signal handler
    $SIG{'STOP'} = sub {
        $sema->down();  # Thread suspended
        ...
        $sema->up();    # Thread resumed
    };

    ...
}

# Create a thread
my $thr = threads->create('thr_func');

...

# Signal the thread to suspend
$sema->down();  # Thread suspended

# Signal the thread to resume
$sema->up();    # Thread resumed
\end{verbatim}
$sema->up();    # Thread resumes
;
...
}

# Create a semaphore and pass it to a thread
my $sema = Thread::Semaphore->new();
my $thr = threads->create('thr_func', $sema);

# Suspend the thread
$sema->down();
$thr->kill('STOP');

...

# Allow the thread to continue
$sema->up();

CAVEAT: The thread signalling capability provided by this module does not actually send signals via the OS. It I<emulates> signals at the Perl-level such that signal handlers are called in the appropriate thread. For example, sending C<$thr-E<gt>kill('STOP')> does not actually suspend a thread (or the whole process), but does cause a C<$SIG{'STOP'}> handler to be called in that thread (as illustrated above).

As such, signals that would normally not be appropriate to use in the C<kill()> command (e.g., C<kill('KILL', $$)> ) are okay to use with the C<-E<gt>kill()> method (again, as illustrated above).

Correspondingly, sending a signal to a thread does not disrupt the operation the thread is currently working on: The signal will be acted upon after the current operation has completed. For instance, if the thread is I<stuck> on an I/O call, sending it a signal will not cause the I/O call to be interrupted such that the signal is acted up immediately.

Sending a signal to a terminated/finished thread is ignored.

=head1 WARNINGS

=over 4

=item Perl exited with active threads:

If the program exits without all threads having either been joined or detached, then this warning will be issued.

NOTE: If the I<main> thread exits, then this warning cannot be suppressed
using C<no warnings 'threads'> as suggested below.

=item Thread creation failed: pthread_create returned #

See the appropriate I<man> page for C<pthread_create> to determine the actual cause for the failure.

=item Thread # terminated abnormally: ...

A thread terminated in some manner other than just returning from its entry point function, or by using C<threads-E<gt>exit>. For example, the thread may have terminated because of an error, or by using C<die>.

=item Using minimum thread stack size of #

Some platforms have a minimum thread stack size. Trying to set the stack size below this value will result in the above warning, and the stack size will be set to the minimum.

=item Thread creation failed: pthread_attr_setstacksize(I<SIZE>) returned 22

The specified I<SIZE> exceeds the system's maximum stack size. Use a smaller value for the stack size.

=back

If needed, thread warnings can be suppressed by using:

no warnings 'threads';

in the appropriate scope.

=head1 ERRORS

=over 4

=item This Perl not built to support threads

The particular copy of Perl that you're trying to use was not built using the C<useithreads> configuration option.

Having threads support requires all of Perl and all of the XS modules in the Perl installation to be rebuilt; it is not just a question of adding the L<threads> module (i.e., threaded and non-threaded Perls are binary incompatible).

=item Cannot change stack size of an existing thread
The stack size of currently extant threads cannot be changed, therefore, the following results in the above error:

```perl
$thr->set_stack_size($size);
```

=item Cannot signal threads without safe signals

Safe signals must be in effect to use the `C<kill()>` signalling method. See L</Unsafe signals> for more details.

=item Unrecognized signal name: ...

The particular copy of Perl that you're trying to use does not support the specified signal being used in a `C<kill()>` call.

=back

=head1 BUGS AND LIMITATIONS

Before you consider posting a bug report, please consult, and possibly post a message to the discussion forum to see if what you've encountered is a known problem.

=over

=item Thread-safe modules

See L<perlmod/Making your module threadsafe/> when creating modules that may be used in threaded applications, especially if those modules use non-Perl data, or XS code.

=item Using non-thread-safe modules

Unfortunately, you may encounter Perl modules that are not `thread-safe`. For example, they may crash the Perl interpreter during execution, or may dump core on termination. Depending on the module and the requirements of your application, it may be possible to work around such difficulties.

If the module will only be used inside a thread, you can try loading the module from inside the thread entry point function using `require` (and `import` if needed):

```perl
sub thr_func
{
  require Unsafe::Module
  # Unsafe::Module->import(...);

  ...
```
If the module is needed inside the `<main>` thread, try modifying your application so that the module is loaded (again using `require` and `import()`) after any threads are started, and in such a way that no other threads are started afterwards.

If the above does not work, or is not adequate for your application, then file a bug report on L<http://rt.cpan.org/Public/> against the problematic module.

=item Memory consumption

On most systems, frequent and continual creation and destruction of threads can lead to ever-increasing growth in the memory footprint of the Perl interpreter. While it is simple to just launch threads and then `join()` or `detach()` them, for long-lived applications, it is better to maintain a pool of threads, and to reuse them for the work needed, using L<queues|Thread::Queue> to notify threads of pending work. The CPAN distribution of this module contains a simple example (F<examples/poolReuse.pl>) illustrating the creation, use and monitoring of a pool of reusable threads.

=item Current working directory

On all platforms except MSWin32, the setting for the current working directory is shared among all threads such that changing it in one thread (e.g., using `chdir()`) will affect all the threads in the application.

On MSWin32, each thread maintains its own the current working directory setting.

=item Environment variables

Currently, on all platforms except MSWin32, all `system` calls (e.g., using `system()` or back-ticks) made from threads use the environment variable settings from the `<main>` thread. In other words, changes made to `ENV` in a thread will not be visible in `system` calls made by that thread.

To work around this, set environment variables as part of the `system` call. For example:

```perl
my $msg = 'hello';
system("FOO=$msg; echo \$FOO");  # Outputs 'hello' to STDOUT
```

On MSWin32, each thread maintains its own set of environment variables.

=item Catching signals
Signals are caught by the main thread (thread ID = 0) of a script. Therefore, setting up signal handlers in threads for purposes other than L"THREAD SIGNALLING" as documented above will not accomplish what is intended.

This is especially true if trying to catch C<SIGALRM> in a thread. To handle alarms in threads, set up a signal handler in the main thread, and then use L"THREAD SIGNALLING" to relay the signal to the thread:

```perl
# Create thread with a task that may time out
my $thr->create(sub {
    threads->yield();
    eval {
        $SIG{ALRM} = sub { die("Timeout\n"); };
        alarm(10);
        ... # Do work here
        alarm(0);
    };
    if ($@ =~ /Timeout/) {
        warn("Task in thread timed out\n");
    }
};

# Set signal handler to relay SIGALRM to thread
$SIG{ALRM} = sub { $thr->kill('ALRM') };

... # Main thread continues working
```

=item Parent-child threads

On some platforms, it might not be possible to destroy I<parent> threads while there are still existing I<child> threads.

=item Creating threads inside special blocks

Creating threads inside C<BEGIN>, C<CHECK> or C<INIT> blocks should not be relied upon. Depending on the Perl version and the application code, results may range from success, to (apparently harmless) warnings of leaked scalar, or all the way up to crashing of the Perl interpreter.

=item Unsafe signals

Since Perl 5.8.0, signals have been made safer in Perl by postponing their handling until the interpreter is in a I<safe> state. See L<perl58delta/Safe Signals> and L<perlipc/Deferred Signals (Safe Signals)> for more details.

Safe signals is the default behavior, and the old, immediate, unsafe
signalling behavior is only in effect in the following situations:

=over 4

=item * Perl has been built with C<PERL_OLD_SIGNALS> (see C<perl -V>).

=item * The environment variable C<PERL_SIGNALS> is set to C<unsafe> (see L<perlrun/"PERL_SIGNALS">).

=item * The module L<Perl::Unsafe::Signals> is used.
=back

If unsafe signals is in effect, then signal handling is not thread-safe, and the C<-E<gt>kill()> signalling method cannot be used.

=item Returning closures from threads

Returning closures from threads should not be relied upon. Depending on the Perl version and the application code, results may range from success, to (apparently harmless) warnings of leaked scalar, or all the way up to crashing of the Perl interpreter.

=item Returning objects from threads

Returning objects from threads does not work. Depending on the classes involved, you may be able to work around this by returning a serialized version of the object (e.g., using L<Data::Dumper> or L<Storable>), and then reconstituting it in the joining thread. If you're using Perl 5.10.0 or later, and if the class supports L<shared objects|threads::shared/"OBJECTS">, you can pass them via L<shared queues|Thread::Queue>.

=item END blocks in threads

It is possible to add L<END blocks|perlmod/"BEGIN, UNITCHECK, CHECK, INIT and END"> to threads by using L<require|perlfunc/"require VERSION"> or L<eval|perlfunc/"eval EXPR"> with the appropriate code. These C<END> blocks will then be executed when the thread's interpreter is destroyed (i.e., either during a C<-E<gt>join()> call, or at program termination).

However, calling any L<threads> methods in such an C<END> block will most likely I<fail> (e.g., the application may hang, or generate an error) due to mutexes that are needed to control functionality within the L<threads> module.

For this reason, the use of C<END> blocks in threads is B<strongly> discouraged.

=item Open directory handles
In perl 5.14 and higher, on systems other than Windows that do not support the C<fchdir> C function, directory handles (see L<opendir|perlfunc/"opendir DIRHANDLE,EXPR">) will not be copied to new threads. You can use the C<d_fchdir> variable in L<Config.pm|Config> to determine whether your system supports it.

In prior perl versions, spawning threads with open directory handles would crash the interpreter.
L<perl #75154|http://rt.perl.org/rt3/Public/Bug/Display.html?id=75154>

=item Perl Bugs and the CPAN Version of L<threads>

Support for threads extends beyond the code in this module (i.e., F<threads.pm> and F<threads.xs>), and into the Perl interpreter itself. Older versions of Perl contain bugs that may manifest themselves despite using the latest version of L<threads> from CPAN. There is no workaround for this other than upgrading to the latest version of Perl.

Even with the latest version of Perl, it is known that certain constructs with threads may result in warning messages concerning leaked scalars or unreferenced scalars. However, such warnings are harmless, and may safely be ignored.

You can search for L<threads> related bug reports at L<http://rt.cpan.org/Public/>. If needed submit any new bugs, problems, patches, etc. to: L<http://rt.cpan.org/Public/Dist/Display.html?Name=threads>

=back

=head1 REQUIREMENTS

Perl 5.8.0 or later

=head1 SEE ALSO

L<threads> Discussion Forum on CPAN:
L<http://www.cpanforum.com/dist/threads>

L<threads::shared>, L<perlthrtut>

L<http://www.perl.com/pub/a/2002/06/11/threads.html> and

Perl threads mailing list:
L<http://lists.perl.org/list/ithreads.html>

Stack size discussion:
L<http://www.perlmonks.org/?node_id=532956>
# AUTHOR

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# LICENSE

threads is released under the same license as Perl.

# ACKNOWLEDGEMENTS

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Vipul Ved Prakash <mail AT vipul DOT net> - 
Helping with debugging

Dean Arnold <darnold AT presicient DOT com> -
Stack size API

---

Found in path(s):
* /opt/cola/permits/1150898180_1634082310.54/0/perl-threads-1.87-4.amzn2.0.2.src.rpm-cosi-expand-archive-XBVKObV4/threads-1.87.tar.gz-cosi-expand-archive-wWLU3Lr3/threads-1.87/lib/threads.pm
No license file was found, but licenses were detected in source scan.

Copyright 2006 - 2009 Jerry D. Hedden. All rights reserved. 
This program is free software; you can redistribute it and/or modify it under the same terms as Perl itself.

Found in path(s):
* /opt/cola/permits/1150898180_1634082310.54/0/perl-threads-1.87-4.amzn2.0.2.src.rpm-cosi-expand-archive-XBVKObV4/threads-1.87.tar.gz-cosi-expand-archive-wWLU3Lr3/threads-1.87/examples/pool.pl
* /opt/cola/permits/1150898180_1634082310.54/0/perl-threads-1.87-4.amzn2.0.2.src.rpm-cosi-expand-archive-XBVKObV4/threads-1.87.tar.gz-cosi-expand-archive-wWLU3Lr3/threads-1.87/examples/pool_reuse.pl
No license file was found, but licenses were detected in source scan.

/*

-----------------------------------------------------------------------------
ppport.h -- Perl/Pollution/Portability Version 3.19

Automatically created by Devel::PPPort running under perl 5.010000.

Do NOT edit this file directly! -- Edit PPPort_pm.PL and the
includes in parts/inc/ instead.

Use 'perldoc ppport.h' to view the documentation below.

SKIP

=pod

=head1 NAME

ppport.h - Perl/Pollution/Portability version 3.19

=head1 SYNOPSIS

perl ppport.h [options] [source files]

Searches current directory for files if no [source files] are given

--help show short help
--version show version

--patch=file write one patch file with changes
--copy=suffix write changed copies with suffix
--diff=program use diff program and options

--compat-version=version provide compatibility with Perl version
--cplusplus accept C++ comments

--quiet don't output anything except fatal errors
--nodiag don't show diagnostics
--nohints don't show hints
--nochanges don't suggest changes
--nofilter don't filter input files

--strip strip all script and doc functionality from
ppport.h

--list-provided list provided API
--list-unsupported list unsupported API
--api-info=name show Perl API portability information
=head1 COMPATIBILITY

This version of F<ppport.h> is designed to support operation with Perl installations back to 5.003, and has been tested up to 5.10.0.

=head1 OPTIONS

=head2 --help

Display a brief usage summary.

=head2 --version

Display the version of F<ppport.h>.

=head2 --patch=I<file>

If this option is given, a single patch file will be created if any changes are suggested. This requires a working diff program to be installed on your system.

=head2 --copy=I<suffix>

If this option is given, a copy of each file will be saved with the given suffix that contains the suggested changes. This does not require any external programs. Note that this does not automagically add a dot between the original filename and the suffix. If you want the dot, you have to include it in the option argument.

If neither C<--patch> or C<--copy> are given, the default is to simply print the diffs for each file. This requires either C<Text::Diff> or a C<diff> program to be installed.

=head2 --diff=I<program>

Manually set the diff program and options to use. The default is to use C<Text::Diff>, when installed, and output unified context diffs.

=head2 --compat-version=I<version>

Tell F<ppport.h> to check for compatibility with the given Perl version. The default is to check for compatibility with Perl version 5.003. You can use this option to reduce the output of F<ppport.h> if you intend to be backward compatible only down to a certain Perl version.
=head2 --cplusplus

Usually, F<ppport.h> will detect C++ style comments and replace them with C style comments for portability reasons. Using this option instructs F<ppport.h> to leave C++ comments untouched.

=head2 --quiet

Be quiet. Don't print anything except fatal errors.

=head2 --nodiag

Don't output any diagnostic messages. Only portability alerts will be printed.

=head2 --nohints

Don't output any hints. Hints often contain useful portability notes. Warnings will still be displayed.

=head2 --nochanges

Don't suggest any changes. Only give diagnostic output and hints unless these are also deactivated.

=head2 --nofilter

Don't filter the list of input files. By default, files not looking like source code (i.e. not *.xs, *.c, *.cc, *.cpp or *.h) are skipped.

=head2 --strip

Strip all script and documentation functionality from F<ppport.h>. This reduces the size of F<ppport.h> dramatically and may be useful if you want to include F<ppport.h> in smaller modules without increasing their distribution size too much.

The stripped F<ppport.h> will have a C<--unstrip> option that allows you to undo the stripping, but only if an appropriate C<Devel::PPPort> module is installed.

=head2 --list-provided

Lists the API elements for which compatibility is provided by F<ppport.h>. Also lists if it must be explicitly requested, if it has dependencies, and if there are hints or warnings for it.
Lists the API elements that are known not to be supported by F<ppport.h> and below which version of Perl they probably won't be available or work.

Show portability information for API elements matching I<name>. If I<name> is surrounded by slashes, it is interpreted as a regular expression.

In order for a Perl extension (XS) module to be as portable as possible across differing versions of Perl itself, certain steps need to be taken.

Including this header is the first major one. This alone will give you access to a large part of the Perl API that hasn't been available in earlier Perl releases. Use

perl ppport.h --list-provided

to see which API elements are provided by ppport.h.

You should avoid using deprecated parts of the API. For example, using global Perl variables without the C<PL_> prefix is deprecated. Also, some API functions used to have a C<perl_> prefix. Using this form is also deprecated. You can safely use the supported API, as F<ppport.h> will provide wrappers for older Perl versions.

If you use one of a few functions or variables that were not present in earlier versions of Perl, and that can't be provided using a macro, you have to explicitly request support for these functions by adding one or more C<#define>s in your source code before the inclusion of F<ppport.h>.

These functions or variables will be marked C<explicit> in the list shown by C<--list-provided>. 
Depending on whether your module has a single or multiple files that use such functions or variables, you want either `C<static>` or global variants.

For a `C<static>` function or variable (used only in a single source file), use:

```c
#define NEED_function
#define NEED_variable
```

For a global function or variable (used in multiple source files), use:

```c
#define NEED_function_GLOBAL
#define NEED_variable_GLOBAL
```

Note that you mustn’t have more than one global request for the same function or variable in your project.

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<tr>
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<td>NEED_sv_setpvf_mg</td>
<td>NEED_sv_setpvf_mg_GLOBAL</td>
</tr>
</tbody>
</table>
To avoid namespace conflicts, you can change the namespace of the explicitly exported functions / variables using the C<DPPP_NAMESPACE> macro. Just C<#define> the macro before including C<ppport.h>:

```c
#define DPPP_NAMESPACE MyOwnNamespace_
#include "ppport.h"
```

The default namespace is C<DPPP_>.

=back

The good thing is that most of the above can be checked by running F<ppport.h> on your source code. See the next section for details.

=head1 EXAMPLES

To verify whether F<ppport.h> is needed for your module, whether you should make any changes to your code, and whether any special defines should be used, F<ppport.h> can be run as a Perl script to check your source code. Simply say:

```
perl ppport.h
```

The result will usually be a list of patches suggesting changes that should at least be acceptable, if not necessarily the most efficient solution, or a fix for all possible problems.

If you know that your XS module uses features only available in newer Perl releases, if you're aware that it uses C++ comments, and if you want all suggestions as a single patch file, you could use something like this:

```
perl ppport.h --compat-version=5.6.0 --cplusplus --patch=test.diff
```

If you only want your code to be scanned without any suggestions for changes, use:

```
perl ppport.h --nochanges
```

You can specify a different C<diff> program or options, using the C<--diff> option:
perl ppport.h --diff='diff -C 10'

This would output context diffs with 10 lines of context.

If you want to create patched copies of your files instead, use:

perl ppport.h --copy=.new

To display portability information for the C<newSVpvn> function, use:

perl ppport.h --api-info=newSVpvn

Since the argument to C<--api-info> can be a regular expression, you can use

perl ppport.h --api-info=/_nomg$/

to display portability information for all C<_nomg> functions or

perl ppport.h --api-info=/./

to display information for all known API elements.

=head1 BUGS

If this version of F<ppport.h> is causing failure during the compilation of this module, please check if newer versions of either this module or C<Devel::PPPort> are available on CPAN before sending a bug report.

If F<ppport.h> was generated using the latest version of C<Devel::PPPort> and is causing failure of this module, please file a bug report using the CPAN Request Tracker at L<http://rt.cpan.org/>.

Please include the following information:

=over 4

=item 1.

The complete output from running "perl -V"

=item 2.

This file.

=item 3.
The name and version of the module you were trying to build.

=item 4.

A full log of the build that failed.

=item 5.

Any other information that you think could be relevant.

=back

For the latest version of this code, please get the C<Devel::PPPort> module from CPAN.

=head1 COPYRIGHT

Version 3.x, Copyright (c) 2004-2009, Marcus Holland-Moritz.

Version 2.x, Copyright (C) 2001, Paul Marquess.

Version 1.x, Copyright (C) 1999, Kenneth Albanowski.

This program is free software; you can redistribute it and/or modify it under the same terms as Perl itself.

=head1 SEE ALSO

See L<Devel::PPPort>.

=cut

use strict;

# Disable broken TRIE-optimization
BEGIN { eval '{^RE_TRIE_MAXBUF} = -1' if $] >= 5.009004 && $] <= 5.009005 }

my $VERSION = 3.19;

my %opt = (
    quiet => 0,
    diag => 1,
    hints => 1,
    changes => 1,
    cplusplus => 0,
    filter => 1,
    strip => 0,
version => 0,
);
my($ppport) = $0 =~ /([\w.]+)$/;
my $LF = '(?:\r\n|[\r\n])'; # line feed
my $HS = "[ \t]";
# horizontal whitespace
# Never use C comments in this file!
my $ccs = '/'.'*';
my $cce = '*'.'/';
my $rccs = quotemeta $ccs;
my $rcce = quotemeta $cce;
eval {
require Getopt::Long;
Getopt::Long::GetOptions(\%opt, qw(
help quiet diag! filter! hints! changes! cplusplus strip version
patch=s copy=s diff=s compat-version=s
list-provided list-unsupported api-info=s
)) or usage();
};
if ($@ and grep /^-/, @ARGV) {
usage() if "@ARGV" =~ /^--?h(?:elp)?$/;
die "Getopt::Long not found. Please don't use any options.\n";
}
if ($opt{version}) {
print "This is $0 $VERSION.\n";
exit 0;
}
usage() if $opt{help};
strip() if $opt{strip};
if (exists $opt{'compat-version'}) {
my($r,$v,$s) = eval { parse_version($opt{'compat-version'}) };
if ($@) {
die "Invalid version number format: '$opt{'compat-version'}'\n";
}
die "Only Perl 5 is supported\n" if $r != 5;
die "Invalid version number: $opt{'compat-version'}\n" if $v >= 1000 || $s >= 1000;
$opt{'compat-version'} = sprintf "%d.%03d%03d", $r, $v, $s;
}
else {
$opt{'compat-version'} = 5;
}

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my %API = map { /^(\w+)?|\([^|]*\)|\([^|]*\)|\([^|]*\)$?1 => {
    ($2 ? ( base => $2 ) : ()),
    ($3 ? ( todo => $3 ) : ()),
    (index($4, 'v') >= 0 ? ( varargs => 1 ) : ()),
    (index($4, 'p') >= 0 ? ( provided => 1 ) : ()),
    (index($4, 'n') >= 0 ? ( nothxarg => 1 ) : ()),
} : die "invalid spec: $_" } qw(
    AvFILLp|5.004050||p
    AvFILL||
    CLASS||n
    CPERLscope|5.005000||p
    CX_CURPAD_SAVE||
    CX_CURPAD_SV||
    CopFILEAV|5.006000||p
    CopFILEGY_set|5.006000||p
    CopFILEGyV|5.006000||p
    CopFILE_set|5.006000||p
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    CvSTASH||
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    ENTER||
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    F0convert|\n
    FREETMPs||
    GIMME_V|5.004000|n
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    GROK_NUMERIC_RADIX|5.007002||p
    G_ARRAY||
    G_DISCARD||
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    G_NOARGS||
)
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pTHX
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xml_dump_sub||
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yyerror||
yylex||
yyparse||
yywarn||
);

if (exists $opt{'list-unsupported'}) {
  my $f;
  for $f (sort { lc $a cmp lc $b } keys %API) {
    next unless $API{$f}{todo};
    print "$f ", '.'x(40-length($f)), " ", format_version($API{$f}{todo}), "\n";
  }
  exit 0;
}

# Scan for possible replacement candidates

my(%replace, %need, %hints, %warnings, %depends);
my $replace = 0;
my($hint, $define, $function);

sub find_api
{
  my $code = shift;
  $code =~ s{
    / (?: \^[^\*]*\^*\*+(?:[^\$ccs][^\*]*\*+) */ | /[^\r\n]*)
    | "[^\n]*\*+(?:[^\$ccs][^\*]*\*+)*/ \n" /s
    | "[^\n]*\*+(?:[^\$ccs][^\*]*\*+)*/ \n"
    | "[^\n]*\*+(?:[^\$ccs][^\*]*\*+)*/ \n"
  }egsx;
  grep { exists $API{$_} } $code =~ /\(w+)/mg;
}
while (<DATA>) {
if ($hint) {
my $h = $hint->[0] eq 'Hint' ? \%hints : \%warnings;
if (m{^\s*\*\s(.*?)\s*$}) {
for (@{$hint->[1]}) {
$h->{$_} ||= ''; # suppress warning with older perls
$h->{$_} .= "$1\n";
}
}
else { undef $hint }
}
$hint = [$1, [split /,?\s+/, $2]]
if m{^\s*$rccs\s+(Hint|Warning):\s+(\w+(?:,?\s+\w+)*)\s*$};
if ($define) {
if ($define->[1] =~ /\\$/) {
$define->[1] .= $_;
}
else {
if (exists $API{$define->[0]} && $define->[1] !~ /^DPPP_\(/) {
my @n = find_api($define->[1]);
push @{$depends{$define->[0]}}, @n if @n
}
undef $define;
}
}
$define = [$1, $2] if m{^\s*#\s*define\s+(\w+)(?:\([^)]*\))?\s+(.*)};
if ($function) {
if (/^}/) {
if (exists $API{$function->[0]}) {
my @n = find_api($function->[1]);
push @{$depends{$function->[0]}}, @n if @n
}
undef $function;
}
else {
$function->[1] .= $_;
}
}
$function = [$1, ''] if m{^DPPP_\(my_(\w+)\)};
$replace

= $1 if m{^\s*$rccs\s+Replace:\s+(\d+)\s+$rcce\s*$};

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$$replace$$1 = $$replace$$ and m{ ^s*#s*define\(s+(w+)(?!([\^])\*))?s+(w+)\};
$$replace$$2 = $$replace$$ and m{ ^s*#s*define\(s+(w+)(?!([\^])\*))?s+(w+)+(w+)+srccs\s+Replace\(s+srccs\s+s\};
$$replace$$1 = $$replace$$ and m{ ^s*srccs\s+(w+(s*,s*\*w+)+s+srccs\s+(w+(s*,s*\*w+)+s+srccs\s+s\}) } {
    my @deps = map { s/s+//g; $_ } split /, /, $3;
    my $d;
    for $d (map { s/s+//g; $_ } split /, /, $1) {
        push @{$depends{$d}}, @deps;
    }
}

$need$$1 = 1 if m{ ^#if\(defined\(NEED_(w+)(?:_GLOBAL)?)\); }
for (values %depends) {
    my %s;
    $_ = [sort grep !$s{$_}++, @$_];
}

if (exists $opt{('api-info')}) {
    my $f;
    my $count = 0;
    my $match = $opt{('api-info')} =~ m!^/(.*)/$! ? $1 : "$API$";
    for $f (sort { lc $a cmp lc $b } keys %API) {
        next unless $f =~ /$match/;
        print "\n=== $f ===\n\n";
        my $info = 0;
        if ($API{$f}{base} || $API{$f}{todo}) {
            my $base = format_version($API{$f}{base} || $API{$f}{todo});
            print "Supported at least starting from perl-$base:\n";
            $info++;
        }
        if ($API{$f}{provided}) {
            my $todo = $API{$f}{todo} ? format_version($API{$f}{todo}) : "5.003";
            print "Support by $ppport provided back to perl-$todo:\n";
            print "Support needs to be explicitly requested by NEED_$f:\n" if exists $need{$f};
            print "Depends on: ", join(’,’, @{$depends{$f}})), ",\n" if exists $depends{$f};
            print "\nShints\{\f\}" if exists $shints{$f};
            print "\nWARNING\n\n$warnings{\f}" if exists $warnings{$f};
            $info++;
        }
        print "\nWARNING:\n\n$warnings{\f}" if exists $warnings{$f};
        $info++;
    }
    print "No portability information available:\n" unless $info;
    $count++;
}
ечно or print "Found no API matching $opt{('api-info')}’.
";
    print "\n";
    exit 0;
if (exists $opt{'list-provided'}) {
    my $f;
    for $f (sort { lc $a cmp lc $b } keys %API) {
        next unless $API{$f}{provided};
        my @flags;
        push @flags, 'explicit' if exists $need{$f};
        push @flags, 'depend'   if exists $depends{$f};
        push @flags, 'hint'     if exists $hints{$f};
        push @flags, 'warning'  if exists $warnings{$f};
        my $flags = @flags ? '  [' . join ', ', @flags) . ']' : '';
        print "$f$flags\n";
    }
    exit 0;
}

my @files;
my @srcext = qw (.xs .c .h .cc .cpp -c.inc -xs.inc );
my $srcext = join '|', map { quotemeta $_ } @srcext;

if (@ARGV) {
    my %seen;
    for (@ARGV) {
        if (-e) {
            if (-f) {
                push @files, $_ unless $seen{$_}++;
            } else { warn "'$_' is not a file.\n" }
        } else {
            my @new = grep { -f } glob $_
            or warn "'$_' does not exist.\n";
            push @files, grep { !$seen{$_}++ } @new;
        }
    }
} else {
    eval {
        require File::Find;
        File::Find::find(sub {
            $File::Find::name =~ /($srcext)$/i
            and push @files, $File::Find::name;
        }, '.');
    };
    if ($@) {
        @files = map { glob "*$_" } @srcext;
    }

}
if (!@ARGV || $opt{filter}) {
my(@in, @out);
my %xsc = map { /(.*)\.xs$/ ? ("$1.c" => 1, "$1.cc" => 1) : () } @files;
for (@files) {
my $out = exists $xsc{$_} || /\b\Q$ppport\E$/i || !/($srcext)$/i;
push @{ $out ? \@out : \@in }, $_;
}
if (@ARGV && @out) {
warning("Skipping the following files (use --nofilter to avoid this):\n| ", join "\n| ", @out);
}
@files = @in;
}
die "No input files given!\n" unless @files;
my(%files, %global, %revreplace);
%revreplace = reverse %replace;
my $filename;
my $patch_opened = 0;
for $filename (@files) {
unless (open IN, "<$filename") {
warn "Unable to read from $filename: $!\n";
next;
}
info("Scanning $filename ...");
my $c = do { local $/; <IN> };
close IN;
my %file = (orig => $c, changes => 0);
# Temporarily remove C/XS comments and strings from the code
my @ccom;
$c =~ s{
( ^$HS*\#$HS*include\b[^\r\n]+\b(?:\Q$ppport\E|XSUB\.h)\b[^\r\n]*
| ^$HS*\#$HS*(?:define|elif|if(?:def)?)\b[^\r\n]* )
| ( ^$HS*\#[^\r\n]*
| "[^"\\]*(?:\\.[^"\\]*)*"
| '[^'\\]*(?:\\.[^'\\]*)*'
| / (?: \*[^*]*\*+(?:[^$ccs][^*]*\*+)* / | /[^\r\n]* ) )
}{ defined $2 and push @ccom, $2;
defined $1 ? $1 : "$ccs$#ccom$cce" }mgsex;

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$file{com} = \@com;
$file{code} = $c;
$file{has_inc_ppport} = $c =~ /^\$HS*\$HS*include[^\r\n]+\bQ\$ppport\E\b/m;

my $func;

for $func (keys %API) {
    my $match = $func;
    $match .= "$revreplace{$func}" if exists $revreplace{$func};
    if ($c =~ /\b(?:Perl_)?($match)\b/) {
        $file{uses_replace}{$1}++ if exists $revreplace{$func} & $1 eq $revreplace{$func};
        $file{uses_Perl}{$func}++ if $c =~ /\bPerl_$func\b/;
        if (exists $API{$func}{provided}) {
            $file{uses_provided}{$func}++;
            if (!exists $API{$func}{base} || $API{$func}{base} > $opt{compat-version}) {
                $file{uses}{$func}++;
                my @deps = rec_depend($func);
                if (@deps) {
                    $file{uses_deps}{$func} = \@deps;
                    for (@deps) {
                        $file{uses}{$_} = 0 unless exists $file{uses}{$_};
                    }
                }
            }
        }
        if (exists $API{$func}{todo} && $API{$func}{todo} > $opt{compat-version}) {
            if ($c =~ /\b$func\b/) {
                $file{uses_todo}{$func}++;
            }
        }
    }
}

while ($c =~ /\$HS*$HS*define$HS+(NEED_(\w+?)(_GLOBAL)?)\b/mg) {
    if (exists $need{$_}) {
        $file{defined $3 ? 'needed_global' : 'needed_static'}{$_}++;
    } else { warning("Possibly wrong #define $1 in $filename") }
}

for (qw(uses needs uses_todo needed_global needed_static)) {
    for $func (keys %{$file{$_}}) {
        push @{$global{$_}{$func}}, $filename;
    }
}
$files{$filename} = \%file;
}
# Globally resolve NEED_'s
my $need;
for $need (keys %{$global{needs}}) {
if (@{$global{needs}{$need}} > 1) {
my @targets = @{$global{needs}{$need}};
my @t = grep $files{$_}{needed_global}{$need}, @targets;
@targets = @t if @t;
@t = grep /\.xs$/i, @targets;
@targets = @t if @t;
my $target = shift @targets;
$files{$target}{needs}{$need} = 'global';
for (@{$global{needs}{$need}}) {
$files{$_}{needs}{$need} = 'extern' if $_ ne $target;
}
}
}
for $filename (@files) {
exists $files{$filename} or next;
info("=== Analyzing $filename ===");
my %file = %{$files{$filename}};
my $func;
my $c = $file{code};
my $warnings = 0;
for $func (sort keys %{$file{uses_Perl}}) {
if ($API{$func}{varargs}) {
unless ($API{$func}{nothxarg}) {
my $changes = ($c =~ s{\b(Perl_$func\s*\(\s*)(?!aTHX_?)(\)|[^\s)]*\))}
{ $1 . ($2 eq ')' ? 'aTHX' : 'aTHX_ ') . $2 }ge);
if ($changes) {
warning("Doesn't pass interpreter argument aTHX to Perl_$func");
$file{changes} += $changes;
}
}
}
else {
warning("Uses Perl_$func instead of $func");
$file{changes} += ($c =~ s{\bPerl_$func(\s*)\((\s*aTHX_?)?\s*}
{$func$1(}g);
}
}

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for $func (sort keys %{$file{uses_replace}})) {
    warning("Uses $func instead of $replace{$func} ");
    $file{changes} += ($c =~ s/b$func/b$replace{$func}/g);
}

for $func (sort keys %{$file{uses_provided}})) {
    if ($file{uses}{$func}) {
        if (exists $file{uses_deps}{$func}) {
            diag("Uses $func, which depends on ", join(', ', @{$file{uses_deps}{$func}}));
        } else {
            diag("Uses $func");
        }
    }
    $warnings += hint($func);
}

unless ($opt{quiet}) {
    for $func (sort keys %{$file{uses_todo}})) {
        print "*** WARNING: Uses $func, which may not be portable below perl ",
            format_version($API{$func}{todo}), ", even with 'ppport'";
        $warnings++;
    }
}

for $func (sort keys %{$file{needed_static}})) {
    my $message = ";
    if (not exists $file{uses}{$func}) {
        $message = "No need to define NEED_$func if $func is never used";
    } elsif (exists $file{needs}{$func} && $file{needs}{$func} ne 'static') {
        $message = "No need to define NEED_$func when already needed globally";
    } if ($message) {
        diag($message);
        $file{changes} += ($c =~ s/^$HS*#$HS*define$HS+NEED_$func\b.*$LF//mg);
    }
}

for $func (sort keys %{$file{needed_global}})) {
    my $message = ";
    if (not exists $global{uses}{$func}) {
        $message = "No need to define NEED_$func\_GLOBAL if $func is never used";
    } elsif (exists $file{needs}{$func}) {
        if ($file{needs}{$func} eq 'extern') {
            $message = "No need to define NEED_$func\_GLOBAL when already needed globally";
        }
    } if ($message) {
        diag($message);
        $file{changes} += ($c =~ s/^$HS*#$HS*define$HS+NEED_$func\_GLOBAL\b.*$LF//mg);
    }
}
elsif ($file{needs}->{$func} eq 'static') {
    $message = "No need to define NEED_${func}_GLOBAL when only used in this file";
}
}

if ($message) {
    diag($message);
    $file{changes} += ($c =~ s/^$HS*#$HS*define$HS+NEED_${func}_GLOBAL\b.*$LF//mg);
}

$file{needs_inc_ppport} = keys %{$file{uses}};

if ($file{needs_inc_ppport}) {
    my $pp = "
    for $func (sort keys %{$file{needs}})) {
        my $type = $file{needs}->{$func};
        next if $type eq 'extern';
        my $suffix = $type eq 'global' ? '_GLOBAL' : "
        unless (exists $file{needed_$type}->{$func}) {
            if ($type eq 'global') {
                diag("Files [@{ $global{needs}->{$func} }] need $func, adding global request\"]
            } else {
                diag("File needs $func, adding static request\"]
            }
            $pp .= "#define NEED_$func$suffix\n"
        }
    }
    if ($pp && ($c =~ s/^(?=$HS*#$HS*define$HS+NEED_\w+)/$pp/m)) {
        $pp = "
        $file{changes}++;
    }

    unless ($file{has_inc_ppport}) {
        diag("Needs to include '$ppport'\"]
        $pp := qq(#include "$ppport\n")
    }

    if ($pp) {
        $file{changes} += ($c =~ s/^\(\$/SH\*#$SH*define\$SH+NEED_\w+.*/+$/S1$pp/ms)
            || ($c =~ s/^\(\$/SH\*#$SH*include.*$/Q$ppport\E)/$pp/m
            || ($c =~ s/^\(\$/SH\*#$SH*include.*XSUB.*s*/+$/S1$pp/m
            || ($c =~ s/^/$pp/);
else {
  if ($file{has_inc_ppport}) {
    diag("No need to include \\
      "$ppport\"\";\n    $file{changes} += ($c =~ s/^$/include.*\Q$ppport\E.*?$LF//m);
  }
}

# put back in our C comments
my $six;
my $cppc = 0;
my @ccom = @{$file{ccom}};
for $ix (0 .. $#ccom) {
  if (!$opt{cplusplus} && $ccom[$ix] =~ s!^//!!) {
    $cppc++;
    $file{changes} += $c =~ s/$rcs$ix$rcce/$ccs$ccom[$ix] $cce/;
  } else {
    $c =~ s/$rcs$ix$rcce/$ccom[$ix]/;
  }
}

if ($cppc) {
  my $s = $cppc != 1 ? 's' : '';
  warning("Uses $cppc C++ style comment$s, which is not portable");
}

my $s = $warnings ? 1 ? 's' : '';
my $warn = $warnings ? "$ warnings warning$s" : "
info("Analysis completed$warn");

if ($file{changes}) {
  if (exists $opt{copy}) {
    my $newfile = "$filename$opt{copy}";
    if (-e $newfile) {
      error("$newfile already exists, refusing to write copy of "$filename"\";
    } else {
      local *F;
      if (open F, ">$newfile") {
        info("Writing copy of "$filename" with changes to "$newfile"\";)
        print F $c;
        close F;
      } else {
        error("Cannot open "$newfile" for writing: $!\";
      } 
    } else {
      $newfile = "$filename$opt{copy}";
      if (-e $newfile) {
        error("$newfile already exists, refusing to write copy of "$filename"\";
      } else {
        local *F;
        if (open F, ">$newfile") {
          print F $c;
          close F;
        } else { 
          error("Cannot open "$newfile" for writing: $!\";
        } 
      } 
    }
  } else {
    my $six = $file{changes} && ($six = $file{changes} =~ s!^\S+\S*$//mg);
    if ($six) {
      warning("Uses $six C comments, which is not portable");
    } else {
      my $cppc = 0;
      my @ccom = @{$file{ccom}};
      for $ix (0 .. $#ccom) {
        if (!$opt{cplusplus} && $ccom[$ix] =~ s!^//!!) {
          $cppc++;
          my $six = $cppc != 1 ? 's' : '';
          warning("Uses $cppc C++ style comment$s, which is not portable");
        } else {
          my $warnings = $cppc;
          my $warn = $warnings ? "$ warnings warning$s" : "
          info("Analysis completed$warn");
        }
      }
    if (exists $opt{copy}) {
      my $newfile = "$filename$opt{copy}";
      if (-e $newfile) {
        error("$newfile already exists, refusing to write copy of "$filename"\";
      } else {
        local *F;
        if (open F, ">$newfile") {
          print F $c;
          close F;
        } else { 
          error("Cannot open "$newfile" for writing: $!\";
        } 
      } else {
        my $six = $file{changes} && ($six = $file{changes} =~ s!^\S+\S*$//mg);
        if ($six) {
          warning("Uses $six C comments, which is not portable");
        } else {
          my $cppc = 0;
          my @ccom = @{$file{ccom}};
          for $ix (0 .. $#ccom) {
            if (!$opt{cplusplus} && $ccom[$ix] =~ s!^//!!) {
              $cppc++;
              my $six = $cppc != 1 ? 's' : '';
              warning("Uses $cppc C++ style comment$s, which is not portable");
            } else {
              my $warnings = $cppc;
              my $warn = $warnings ? "$ warnings warning$s" : "
              info("Analysis completed$warn");
            }
          }
        }
      }
    }
  }
}
elsif (exists $opt{patch} || $opt{changes}) {
  if (exists $opt{patch}) {
    unless ($patch_opened) {
      if (open PATCH, ">$opt{patch}") {
        $patch_opened = 1;
      }
      else {
        error("Cannot open '$opt{patch}' for writing: $!'");
        delete $opt{patch};
        $opt{changes} = 1;
        goto fallback;
      }
    }
    mydiff(
      ^PATCH, $filename, $c);
  } else {
    fallback:
    info("Suggested changes:");
    mydiff(
      ^STDOUT, $filename, $c);
  } else {
    my $s = $file{changes} == 1 ? '' : 's';
    info("$file{changes} potentially required change$s detected");
  }
  }
}
else {
  info("Looks good");
}
}
close PATCH if $patch_opened;
exit 0;

sub try_use { eval "use @_;"; return $@ eq " "
}

sub mydiff
{
  local *F = shift;
  my($file, $str) = @_;
  my $diff = run_diff($opt{diff}, $file, $str);
  if (exists $opt{diff}) {
    $diff = run_diff($opt{diff}, $file, $str);
  }
}
if (!defined $diff and try_use('Text::Diff')) {
    $diff = Text::Diff::diff($file, \$str, { style => 'Unified' });
    $diff = <<HEADER . $diff;
    --- $file
    +++ $file.patched
    HEADER
}

if (!defined $diff) {
    $diff = run_diff('diff -u', $file, $str);
}

if (!defined $diff) {
    $diff = run_diff('diff', $file, $str);
}

if (!defined $diff) {
    error("Cannot generate a diff. Please install Text::Diff or use --copy.");
    return;
}

print F $diff;
}

sub run_diff {
    my($prog, $file, $str) = @_;   
    my $tmp = 'dppptemp';
    my $suf = 'aaa';    
    my $diff = ";    
    local *F;

    while (-e "$tmp.$suf") { $suf++ }  
    $tmp = "$tmp.$suf";

    if (open F, ">$tmp") {
        print F $str;
        close F;

        if (open F, "$prog $file $tmp") {
            while (<F>) {
                s/$Q/$file.patched/;
                $diff .= $__;                
            }
            close F;
            unlink $tmp;
            return $diff;
        }
    
"}

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unlink $tmp;
}
else {
    error("Cannot open '$tmp' for writing: $!");
}

return undef;

sub rec_depend
{
    my($func, $seen) = @_;;
    return () unless exists $depends{$func};
    $seen = (%{$seen||{ }});
    return () if $seen->{$func}++;
    my %s;
    grep !$s{$_}++, map { ($_, rec_depend($_, $seen)) } @{$depends{$func}};
}

sub parse_version
{
    my $ver = shift;

    if ($ver =~ /^\d+(\d+\.\d+\d+)?$/) {
        return ($1, $2, $3);
    }
    elsif ($ver !~ /^\d+\d+\d+$/) {
        die "cannot parse version '$ver\n";
    }

    $ver =~ s/\_/\//g;
    $ver =~ s/$/000000/;

    my($r,$v,$s) = $ver =~ /\d+\d+\d+/g;
    $v = int $v;
    $s = int $s;

    if ($r < 5 || ($r == 5 && $v < 6)) {
        if ($s % 10) {
            die "cannot parse version '$ver\n";
        }
    }

    return ($r, $v, $s);
}
sub format_version
{
my $ver = shift;

$ver =~ s/$/000000/;
my($r,$v,$s) = $ver =~ /\d+.\d{3}\d{3}/;

$v = int $v;
$s = int $s;

if ($r < 5 || ($r == 5 && $v < 6)) {
  if ($s % 10) {
    die "invalid version \$ver\n";
  }
  $s /= 10;

  $ver = sprintf "%d.%03d", $r, $v;
  $s > 0 and $ver .= sprintf "_%02d", $s;

  return $ver;
}

return sprintf "%d.%d.%d", $r, $v, $s;
}

sub info
{
$opt{quiet} and return;
print @_, "\n";
}

sub diag
{
$opt{quiet} and return;
$opt{diag} and print @_, "\n";
}

sub warning
{
$opt{quiet} and return;
print "*** ", @_, "\n";
}

sub error
{
print "*** ERROR: ", @_, "\n";
}
my %given_hints;
my %given_warnings;
sub hint
{
$opt{quiet} and return;
my $func = shift;
my $rv = 0;
if (exists $warnings{$func} && !$given_warnings{$func}++) {
my $warn = $warnings{$func};
$warn =~ s!^!*** !mg;
print "*** WARNING: $func\n", $warn;
$rv++;
}
if ($opt{hints} && exists $hints{$func} && !$given_hints{$func}++) {
my $hint = $hints{$func};
$hint =~ s/^/ /mg;
print " --- hint for $func ---\n", $hint;
}
$rv;
}
sub usage
{
my($usage) = do { local(@ARGV,$/)=($0); <> } =~ /^=head\d$HS+SYNOPSIS\s*^(.*?)\s*^=/ms;
my %M = ( 'I' => '*' );
$usage =~ s/^\s*perl\s+\S+/$^X $0/;
$usage =~ s/([A-Z])<([^>]+)>/$M{$1}$2$M{$1}/g;
print <<ENDUSAGE;
Usage: $usage
See perldoc $0 for details.
ENDUSAGE
exit 2;
}
sub strip
{
my $self = do { local(@ARGV,$/)=($0); <> };
my($copy) = $self =~ /^=head\d\s+COPYRIGHT\s*^(.*?)^=\w+/ms;
$copy =~ s/^(?=\S+)/ /gms;
$self =~ s/^$HS+Do NOT edit.*?(?=^-)/$copy/ms;
$self =~ s/^SKIP.*(?=^__DATA__)/SKIP
if (\@ARGV && \$ARGV[0] eq '--unstrip') {
eval { require Devel::PPPort };

Open Source Used In Cisco Cloud Mailbox Defense -CMD (Project Raptor) April 2021 40433


\$@ and die "Cannot require Devel::PPPort, please install.\n"
if (eval \$Devel::PPPort::VERSION < \$VERSION) {
    die "$0 was originally generated with Devel::PPPort \$VERSION.\n"
    "Your Devel::PPPort is only version \$Devel::PPPort::VERSION.\n"
    "Please install a newer version, or --unstrip will not work.\n"
}
Devel::PPPort::WriteFile($0);
exit 0;
}
print <<<END;
Sorry, but this is a stripped version of \$0.

To be able to use its original script and doc functionality,
please try to regenerate this file using:

\$^X \$0 --unstrip

END

my($pl, $c) = $self =~ /(.^\__DATA__)(.*)/ms;
$c =~ s{
    / (?: \*[^*]*\*+(?:[^$ccs]\*+)* / | /\[\^\r\n\]*
    | ( "[^\"\\]*(?:\\\.[^"\\]*)*"
    | '[^'\\]*(?:\\.[^'\\]*)*' )
    | ($HS+) }{ defined $2 ? '' : ($1 || '') }gsex;
$c =~ s!\s+$!!mg;
$c =~ s!^\r\n!!mg;
$c =~ s!^\s+!!mg;
open OUT, ">$0" or die "cannot strip $0: $!
print OUT "$pl$c\n";
exit 0;
}

__DATA__
*/

Found in path(s):
* /opt/cola/permits/1150898180_1634082310.54/0/perl-threads-1.87-4.amzn2.0.2.src.rpm-cosi-expand-archive-XBVKOObV4/threads-1.87.tar.gz-cosi-expand-archive-wWLU3Lr3/threads-1.87/ppport.h
No license file was found, but licenses were detected in source scan.

---

abstract: 'Perl interpreter-based threads'

author: 
build_requires:
    ExtUtils::MakeMaker: 0
configure_requires:
    ExtUtils::MakeMaker: 0
dynamic_config: 1
generated_by: 'ExtUtils::MakeMaker version 6.66, CPAN::Meta::Converter version 2.130880'
license: perl
meta-spec:
    url: http://module-build.sourceforge.net/META-spec-v1.4.html
    version: 1.4
name: threads
no_index:
directory:
    - t
    - inc
requires:
    Carp: 0
    Config: 0
    ExtUtils::testlib: 0
    Hash::Util: 0
    IO::File: 0
    Test::More: 0
    XSLoader: 0
    overload: 0
    strict: 0
    warnings: 0
version: 1.87

License:        GPL+ or Artistic

1.2251 libusb 0.1.0
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1.2252 pkg-config 0.29.1 0ubuntu2

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1.2254 pyyaml 3.12-1build2

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* /opt/cola/permits/1240323307_1643760104.65/netkit-tftp-0.17-orig-tar-gz/netkit-tftp-0.17/tftp/tftp.c
* /opt/cola/permits/1240323307_1643760104.65/netkit-tftp-0.17-orig-tar-gz/netkit-tftp-0.17/tftp/main.c
* /opt/cola/permits/1240323307_1643760104.65/netkit-tftp-0.17-orig-tar-gz/netkit-tftp-0.17/tftpd/tftpd.c
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* From: @(#)tftp.h 8.1 (Berkeley) 6/2/93
* $Id: tftp.h,v 1.1 2000/07/22 18:59:20 dholland Exp $
* (Fixed for netkit to have well-defined field sizes)
*/

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* /opt/cola/permits/1240323307_1643760104.65/0/netkit-tftp-0-17-orig-tar-gz/netkit-tftp-0.17/include/arpa/tftp.h
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1.2261 apparmor 2.12 4ubuntu5.1

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1.2271 python-jsonschema 2.6.0-2

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